Appendix A

Air Quality and Health Risk Assessments

Air Quality Assessment
Meines Street and Palm Avenue Warehouse
City of Highland, California

Kimley»Horn
Expect More. Experience Better.

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Appendix A: Air Quality Modeling Data

LIST OF ABBREVIATED TERMS

AQMP	air quality management plan
AB	Assembly Bill
ADT	average daily traffic
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CAAQS	California Ambient Air Quality Standards
CCAA	California Clean Air Act
CalEEMod	California Emissions Estimator Model
CEQA	California Environmental Quality Act
CO	carbon monoxide
cy	cubic yards
DPM	diesel particulate matter
FCAA	Federal Clean Air Act
H_2S	hydrogen sulfide
Pb	lead
LST	local significance threshold
$\mu g/m^3$	micrograms per cubic meter
mg/m^3	milligrams per cubic meter
NAAQS	National Ambient Air Quality Standards
NO_2	nitrogen dioxide
NO_x	nitrogen oxide
O_3	ozone
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
ppm	parts per million
ROG	reactive organic gases
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
SB	Senate Bill
SRA	source receptor area
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SCAG	Southern California Association of Governments
sf	square foot, square feet
SO_{4-2}	sulfates
SO_2	sulfur dioxide
TAC	toxic air contaminant
U.S. EPA	United States Environmental Protection Agency
C_2H_3Cl	vinyl chloride
VOC	volatile organic compound

1 INTRODUCTION

This report documents the results of an Air Quality Assessment completed for the Meines Street and Palm Avenue Warehouse Project ("Project" or "proposed Project"). The purpose of this Air Quality Assessment is to evaluate the potential construction and operational emissions associated with the Project and determine the level of impact the Project would have on the environment.

1.1 Project Location

The proposed Project is located at the northwest corner of Meines Street and Palm Avenue in the City of Highland, California (City). The proposed site consists of 14 parcels (APN 1192-601-05, -09, and -43; 1192-621-02 through -08, and -20 through -23) on 12.8 acres. Currently, the site is used for industrial and non-conforming single-family residential uses. The Project site is relatively flat and has elevations ranging from approximately 1,175 to 1,193 feet above mean sea level (amsl). The site's topographic slightly slopes down to the west.

The Project site is bounded by the City Creek stormwater channel to the north, Palm Avenue to the east, Meines Street to the south, and an industrial lot to the west. In addition, the proposed Project is located approximately 1.2-mile northeast of the San Bernardino International Airport (SBIA).

Local access to the Project site is provided via Meines Street and Palm Avenue. The nearest major freeways to the site include Interstate 210 (I-210), located approximately 0.55-mile to the east and Interstate 10 (I-10), located approximately 2.86 miles to the south of the site; refer to Exhibit 1: Regional Vicinity Map and Exhibit 2: Site Vicinity Map.

1.2 Project Description

The Project proposes the development of single new industrial concrete tilt-up dock high warehouse building totaling 284,917 square feet, including 5,000 square feet of office space and 3,000 feet of mezzanine space. The structure will be supported by a screened truck yard, vehicular parking areas, tractor-trailer storage stalls, drive aisles, and landscaped areas. On-site improvements will include storm drains, stormwater/water quality treatment facilities (including underground infiltration chambers), sewer (including a private lift station), water, and dry utility systems. Additionally, minor onsite slopes and deepened building panels will be utilized. Vehicular access to the Project site will be provided by two new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site. The Project provides a total of 240 parking spaces that includes 47 trailer stalls, 159 standard auto stalls, and 34 compact auto stalls. Refer to Exhibit 3: Site Plan for further Project details.

The Project would increase onsite impermeable areas as a result of the construction of a 284,917-SF warehouse building and parking areas. However, the Project would also create a storm drain connection to the existing channel near the northwest corner of the Project site.

Project Phasing

The Project is anticipated to be developed in one phase. Construction activity is anticipated to occur over a duration of approximately 10 months, beginning in October 2023.

General Plan Land Use and Zoning Designations

As designated by the City's Development Code, the Project site has a General Plan land use designation of Industrial (I) and a Zoning designation of Industrial (I). As such, the Project is anticipated to be consistent with the existing land use and zoning.

Site Access

Local access to the Project site is provided via Meines Street, which traverses the south of the site in a west-east direction, Palm Avenue that traverses east of the site in a north-south direction. Regional access to the Project site is via the W 5th Street off-ramp from I-210. The Project would include two (2) new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The Project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site.

Walls and Fences

The Project would include the following walls and fences on-site:

- An 8-foot-high metal fence would be located along the northwestern, northeastern, and western boundaries of the Project site;
- A 10-foot-high screen wall would run along the northern property line and would also surround the truck trailer parking and loading dock area in the northern portion of the site; and
- Two 8-foot-high metal gates would border the western and eastern boundaries of the truck loading area in the northern portion of the site.

Parking

The Project proposes to provide a total of 240 parking spaces that include 159 standard parking stalls (9 feet by 19 feet), 34 compact auto stalls (9 feet by 14 feet), and 47 trailer parking stalls (10 feet by 53 feet). Trailer stalls would be positioned along the northern Project boundary to the north of the loading dock area. The proposed auto standard parking stalls would be provided along the northeast, east, and west portions of the site.

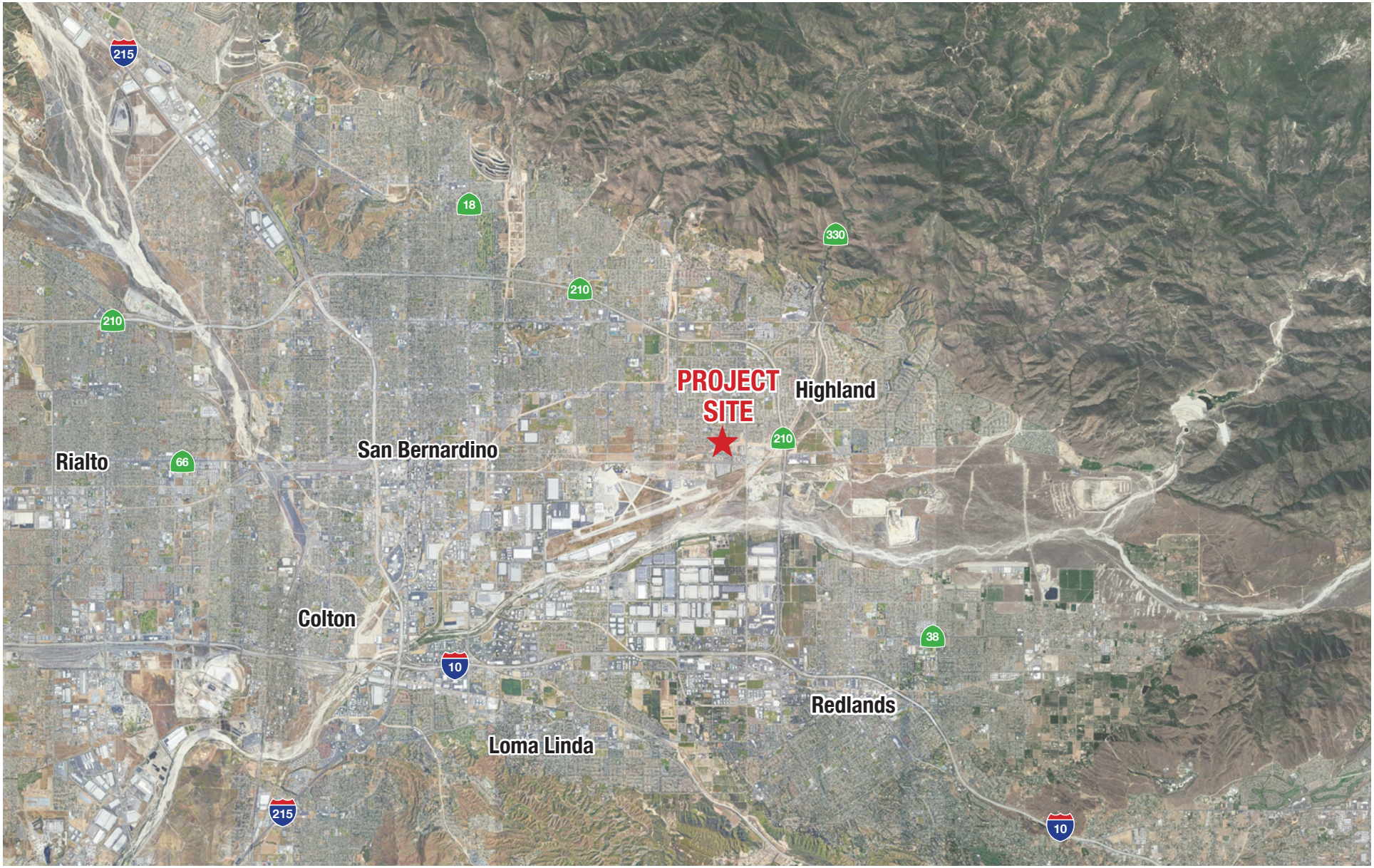

EXHIBIT 1: Regional Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

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EXHIBIT 2: Site Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

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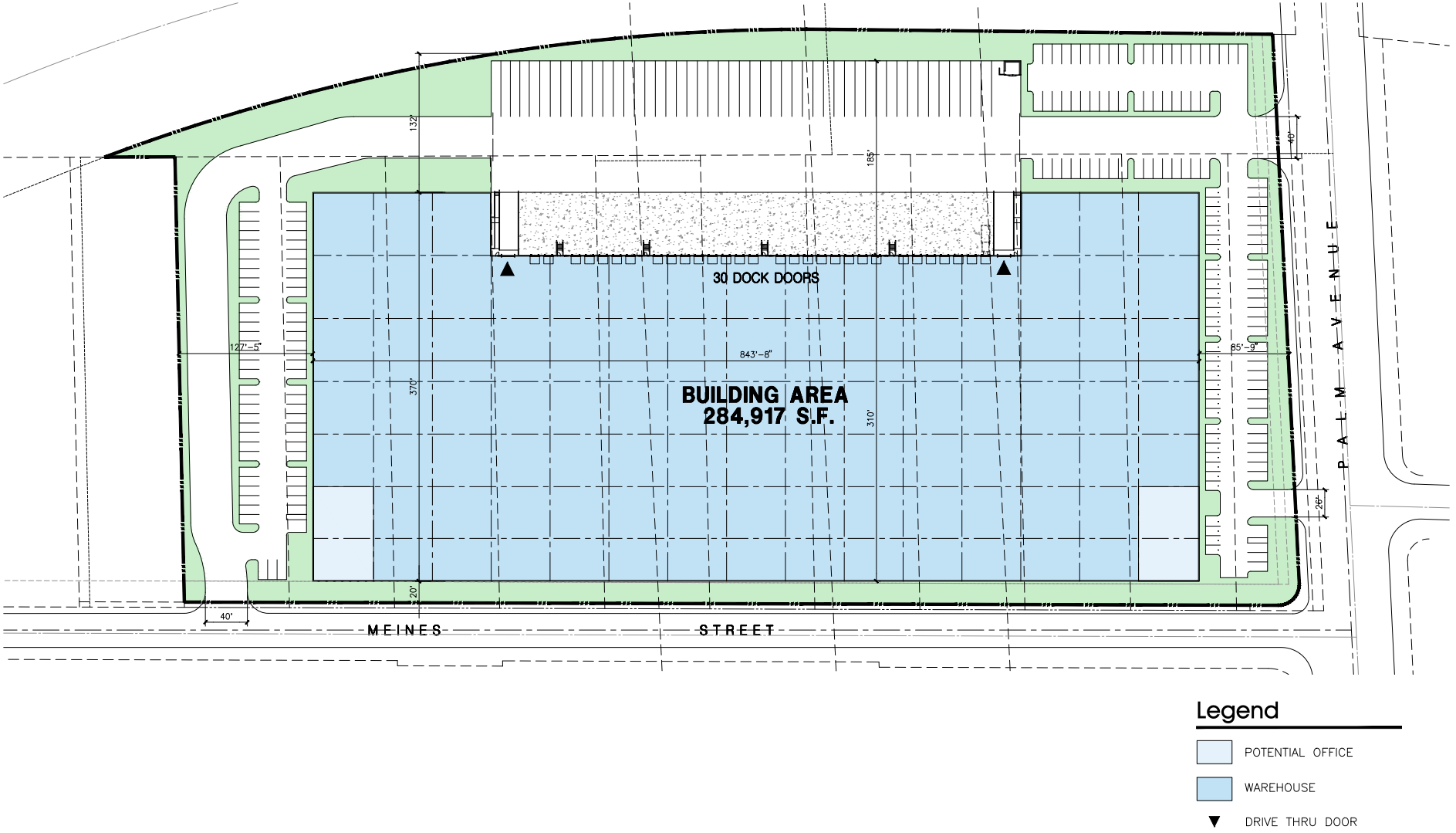

EXHIBIT 3: Site Plan

Meines Street and Palm Avenue Warehouse Project

City of Highland

Not to Scale

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2 ENVIRONMENTAL SETTING

2.1 Climate and Meteorology

The California Air Resources Board (CARB) divides the State into 15 air basins that share similar meteorological and topographical features. The Project is located within the South Coast Air Basin (SCAB), which includes the non-desert portions of Los Angeles, Riverside, and San Bernardino counties, as well as all of Orange County. The SCAB is on a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean on the southwest and high mountains forming the remainder of the perimeter[1]. Air quality in this area is determined by such natural factors as topography, meteorology, and climate, in addition to the presence of existing air pollution sources and ambient conditions. These factors along with applicable regulations are discussed below.

The SCAB is part of a semi-permanent high-pressure zone in the eastern Pacific. As a result, the climate is mild and tempered by cool sea breezes. This usually mild weather pattern is occasionally interrupted by periods of extreme heat, winter storms, and Santa Ana winds. The annual average temperature throughout the 6,645-square-mile SCAB ranges from low 60 to high 80 degrees Fahrenheit with little variance. With more oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas.

Contrasting the steady pattern of temperature, rainfall is seasonally and annually highly variable. Almost all annual rainfall occurs between the months of November and April. Summer rainfall is reduced to widely scattered thundershowers near the coast, with slightly heavier activity in the east and over the mountains.

Although the SCAB has a semiarid climate, the air closer to the Earth's surface is typically moist because of the presence of a shallow marine layer. Except for occasional periods when dry, continental air is brought into the SCAB by offshore winds, the "ocean effect" is dominant. Periods of heavy fog are frequent and low clouds known as high fog are characteristic climatic features, especially along the coast. Annual average humidity is 70 percent at the coast and 57 percent in the eastern portions of the SCAB.

Wind patterns across the SCAB are characterized by westerly or southwesterly on-shore winds during the day and easterly or northeasterly breezes at night. Wind speed is typically higher during the dry summer months than during the rainy winter. Between periods of wind, air stagnation may occur in both the morning and evening hours. Air stagnation is one of the critical determinants of air quality conditions on any given day. During winter and fall, surface high-pressure systems over the SCAB, combined with other meteorological conditions, result in very strong, downslope Santa Ana winds. These winds normally continue for a few days before predominant meteorological conditions are reestablished.

The mountain ranges to the east affect the diffusion of pollutants by inhibiting the eastward transport of pollutants. Air quality in the SCAB generally ranges from fair to poor and is similar to air quality in most of coastal Southern California. The entire region experiences heavy concentrations of air pollutants during prolonged periods of stable atmospheric conditions.

In addition to the characteristic wind patterns that affect the rate and orientation of horizontal pollutant transport, two distinct types of temperature inversions control the vertical depth through which air

[1] South Coast Air Quality Management District, *CEQA Air Quality Handbook*, 1993.

pollutants are mixed. These inversions are the marine inversion and the radiation inversion. The height of the base of the inversion at any given time is called the "mixing height." The combination of winds and inversions is a critical determinant leading to highly degraded air quality for the SCAB in the summer and generally good air quality in the winter.

2.2 Air Pollutants of Concern

The air pollutants emitted into the ambient air by stationary and mobile sources are regulated by state and federal laws. These regulated air pollutants are known as "criteria air pollutants" and are categorized into primary and secondary pollutants.

Primary air pollutants are emitted directly from sources. Carbon monoxide (CO), reactive organic gases (ROG), nitrogen oxide (NO_X), sulfur dioxide (SO_2), coarse particulate matter (PM_{10}), fine particulate matter ($PM_{2.5}$), and lead are primary air pollutants. Of these, CO, NO_X, SO_2, PM_{10}, and $PM_{2.5}$ are primary criteria pollutants. ROG and NO_X are criteria pollutant precursors and form secondary criteria pollutants through chemical and photochemical reactions in the atmosphere. For example, the criteria pollutant ozone (O_3) is formed by a chemical reaction between ROG and NO_X in the presence of sunlight. O_3 and nitrogen dioxide (NO_2) are the principal secondary pollutants. Sources and health effects commonly associated with criteria pollutants are summarized in Table 1: Air Contaminants and Associated Public Health Concerns.

Table 1: Air Contaminants and Associated Public Health Concerns

Pollutant	Major Man-Made Sources	Human Health Effects
Particulate Matter (PM_{10} and $PM_{2.5}$)	Power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles and others.	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; asthma; chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility.
Ozone (O_3)	Formed by a chemical reaction between reactive organic gases/volatile organic compounds (ROG or VOC)[1] and nitrogen oxides (NO_X) in the presence of sunlight. Motor vehicle exhaust industrial emissions, gasoline storage and transport, solvents, paints and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing, and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield.
Sulfur Dioxide (SO_2)	A colorless gas formed when fuel containing sulfur is burned and when gasoline is extracted from oil. Examples are petroleum refineries, cement manufacturing, metal processing facilities, locomotives, and ships.	Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid which can damage marble, iron and steel. Damages crops and natural vegetation. Impairs visibility. Precursor to acid rain.
Carbon Monoxide (CO)	An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO_2)	A reddish-brown gas formed during fuel combustion for motor vehicles and industrial sources. Sources include motor vehicles, electric utilities, and other sources that burn fuel.	Respiratory irritant; aggravates lung and heart problems. Precursor to O_3. Contributes to global warming and nutrient overloading which deteriorates water quality. Causes brown discoloration of the atmosphere.

Table 1: Air Contaminants and Associated Public Health Concerns		
Pollutant	**Major Man-Made Sources**	**Human Health Effects**
Lead (Pb)	Lead is a metal found naturally in the environment as well as in manufactured products. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Due to the phase out of leaded gasoline, metals processing is the major source of lead emissions to the air today. The highest levels of lead in air are generally found near lead smelters. Other stationary sources are waste incinerators, utilities, and lead-acid battery manufacturers.	Exposure to lead occurs mainly through inhalation of air and ingestion of lead in food, water, soil, or dust. It accumulates in the blood, bones, and soft tissues and can adversely affect the kidneys, liver, nervous system, and other organs. Excessive exposure to lead may cause neurological impairments such as seizures, mental retardation, and behavioral disorders. Even at low doses, lead exposure is associated with damage to the nervous systems of fetuses and young children, resulting in learning deficits and lowered IQ.
Notes: [1] Volatile Organic Compounds (VOCs or Reactive Organic Gases [ROG]) are hydrocarbons/organic gases that are formed solely of hydrogen and carbon. There are several subsets of organic gases including ROGs and VOCs. Both ROGs and VOCs are emitted from the incomplete combustion of hydrocarbons or other carbon-based fuels. The major sources of hydrocarbons are combustion engine exhaust, oil refineries, and oil-fueled power plants; other common sources are petroleum fuels, solvents, dry cleaning solutions, and paint (via evaporation).		
Source: California Air Pollution Control Officers Association (CAPCOA), *Health Effects.*		

Toxic Air Contaminants

Toxic air contaminants (TACs) are airborne substances that can cause short-term (acute) or long-term (i.e., chronic, carcinogenic or cancer causing) adverse human health effects (i.e., injury or illness). TACs include both organic and inorganic chemical substances. They may be emitted from a variety of common sources including gasoline stations, automobiles, dry cleaners, industrial operations, and painting operations. The current California list of TACs includes more than 200 compounds, including particulate emissions from diesel-fueled engines.

CARB identified diesel particulate matter (DPM) as a toxic air contaminant. DPM differs from other TACs in that it is not a single substance but rather a complex mixture of hundreds of substances. Diesel exhaust is a complex mixture of particles and gases produced when an engine burns diesel fuel. DPM is a concern because it causes lung cancer; many compounds found in diesel exhaust are carcinogenic. DPM includes the particle-phase constituents in diesel exhaust. The chemical composition and particle sizes of DPM vary between different engine types (heavy-duty, light-duty), engine operating conditions (idle, accelerate, decelerate), fuel formulations (high/low sulfur fuel), and the year of the engine. Some short-term (acute) effects of diesel exhaust include eye, nose, throat, and lung irritation, and diesel exhaust can cause coughs, headaches, light-headedness, and nausea. DPM poses the greatest health risk among the TACs. Almost all diesel exhaust particle mass is 10 microns or less in diameter. Due to their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung.

Ambient Air Quality

CARB monitors ambient air quality at approximately 250 air monitoring stations across the State. These stations usually measure pollutant concentrations ten feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. Existing levels of ambient air quality, historical trends, and projections near the Project are documented by measurements made by the South Coast Air Quality Management District (SCAQMD), the air pollution regulatory agency in the SCAB that maintains air quality monitoring stations which process ambient air quality measurements.

Pollutants of concern in the SCAB include O_3, PM_{10}, and $PM_{2.5}$. The closest air monitoring station to the Project that monitors ambient concentrations of these pollutants is the San Bernardino-4th Street Monitoring Station (located approximately 3.5 miles to the west of the Project site). Local air quality data from 2019 to 2021 are provided in Table 2: Ambient Air Quality Data, which lists the monitored maximum concentrations and number of exceedances of state or federal air quality standards for each year.

Table 2: Ambient Air Quality Data

Criteria Pollutant	2019	2020	2021
Ozone (O_3) [1]			
1-hour Maximum Concentration (ppm)	0.127	0.162	0.142
8-hour Maximum Concentration (ppm)	0.114	0.128	0.112
Number of Days Standard Exceeded			
CAAQS 1-hour (>0.09 ppm)	63	89	66
NAAQS 8-hour (>0.070 ppm)	96	130	98
Carbon Monoxide (CO) [1]			
1-hour Maximum Concentration (ppm)	3.818	1.934	4.331
Number of Days Standard Exceeded			
NAAQS 1-hour (>35 ppm)	0	0	0
CAAQS 1-hour (>20 ppm)	0	0	0
Nitrogen Dioxide (NO_2) [1]			
1-hour Maximum Concentration (ppm)	0.059	0.054	0.056
Number of Days Standard Exceeded			
NAAQS 1-hour (>0.100 ppm)	0	0	0
CAAQS 1-hour (>0.18 ppm)	0	0	0
Particulate Matter Less Than 10 Microns (PM_{10}) [1]			
National 24-hour Maximum Concentration	112.7	174.8	182.4
State 24-hour Maximum Concentration	92.2	100.8	71.2
State Annual Average Concentration (CAAQS=20 µg/m^3)	—	—	—
Number of Days Standard Exceeded			
NAAQS 24-hour (>150 µg/m^3)	0	1	1
CAAQS 24-hour (>50 µg/m^3)	4	8	4
Particulate Matter Less Than 2.5 Microns ($PM_{2.5}$) [1]			
National 24-hour Maximum Concentration	60.5	56.6	57.9
State 24-hour Maximum Concentration	60.5	56.6	57.9
Number of Days Standard Exceeded			
NAAQS 24-hour (>35 µg/m^3)	1	2	1

Notes:
NAAQS = National Ambient Air Quality Standards; CAAQS = California Ambient Air Quality Standards; ppm = parts per million;
µg/m3 = micrograms per cubic meter; – = not measured
1 Measurements taken at the San Bernardino-4th Street Monitoring Station at 24302 4th Street., San Bernardino, CA 92410. (CARB# 36203)

Source: All pollutant measurements are from the CARB Aerometric Data Analysis and Management system database (https://www.arb.ca.gov/adam) except for CO, which were retrieved from the CARB Air Quality and Meteorological Information System (https://www.arb.ca.gov/aqmis2/aqdselect.php).

2.3 Sensitive Receptors

Sensitive populations are more susceptible to the effects of air pollution than is the general population. Sensitive receptors that are in proximity to localized sources of toxics are of particular concern. Land uses considered sensitive receptors include residences, schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. The Project site is primarily surrounded by trailer parking, industrial warehousing, business offices, logistics, and distribution related uses. The sensitive land uses nearest to the Project site consist of single-family

residences located to the north, south, northeast, and west and a community part to the northwest. Sensitive land uses nearest to the Project are shown in Table 3: Sensitive Receptors.

Table 3: Sensitive Receptors

Receptor Description	Distance and Direction from the Project
Single-Family Residences	97 feet to the south
Single-Family Residences	240 feet to the north
Single-Family Residences	290 feet to the northeast
Single-Family Residences	310 feet to the southwest
Highland Community Park	370 feet to the northwest
Single-Family Residences	818 feet to the west
Cypress Elementary School	1,960 feet to the northwest

Source: Google Earth, 2023.

3 REGULATORY SETTING

3.1 Federal

Federal Clean Air Act

Air quality is federally protected by the Federal Clean Air Act (FCAA) and its amendments. Under the FCAA, the United States Environmental Protection Agency (U.S. EPA) developed the primary and secondary National Ambient Air Quality Standards (NAAQS) for the criteria air pollutants including O_3, NO_2, CO, SO_2, PM_{10}, $PM_{2.5}$, and lead. Proposed projects in or near nonattainment areas could be subject to more stringent air-permitting requirements. The FCAA requires each state to prepare a State Implementation Plan to demonstrate how it will attain the NAAQS within the federally imposed deadlines.

The EPA can withhold certain transportation funds from states that fail to comply with the planning requirements of the FCAA. If a state fails to correct these planning deficiencies within two years of Federal notification, the EPA is required to develop a Federal implementation plan for the identified nonattainment area or areas. The provisions of 40 Code of Federal Regulations Parts 51 and 93 apply in all nonattainment and maintenance areas for transportation-related criteria pollutants for which the area is designated nonattainment or has a maintenance plan. The EPA has designated enforcement of air pollution control regulations to the individual states. Applicable federal standards are summarized in Table 4: State and Federal Ambient Air Quality Standards.

3.2 State of California

California Air Resources Board

CARB administers the air quality policy in California. The California Ambient Air Quality Standards (CAAQS) were established in 1969 pursuant to the Mulford-Carrell Act. These standards, included with the NAAQS in Table 4, are generally more stringent and apply to more pollutants than the NAAQS. In addition to the criteria pollutants, CAAQS have been established for visibility reducing particulates, hydrogen sulfide, and sulfates.

The California Clean Air Act (CCAA) requires that each local air district prepare and maintain an Air Quality Management Plan (AQMP) to achieve compliance with CAAQS. These AQMPs also serve as the basis for the preparation of the State Implementation Plan for meeting federal clean air standards for the State of California. Like the U.S. EPA, CARB also designates areas within California as either attainment or nonattainment for each criteria pollutant based on whether the CAAQS have been achieved. Under the CCAA, areas are designated as nonattainment for a pollutant if air quality data shows that a State standard for the pollutant was violated at least once during the previous three calendar years. Exceedances that are affected by highly irregular or infrequent events such as wildfires, volcanoes, etc. are not considered violations of a State standard, and are not used as a basis for designating areas as nonattainment. The applicable State standards are summarized in Table 4.

Table 4: State and Federal Ambient Air Quality Standards

Pollutant	Averaging Time	State Standards[1]	Federal Standards[2]
Ozone (O_3) [2, 5, 7]	8 Hour	0.070 ppm (137 µg/m³)	0.070 ppm
	1 Hour	0.09 ppm (180 µg/m³)	NA
Carbon Monoxide (CO)	8 Hour	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)
	1 Hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)
Nitrogen Dioxide (NO_2)	1 Hour	0.18 ppm (339 µg/m³)	0.10 ppm[11]
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)
Sulfur Dioxide (SO_2) [8]	24 Hour	0.04 ppm (105 µg/m³)	0.14 ppm (365 µg/m³)
	1 Hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)
	Annual Arithmetic Mean	NA	0.03 ppm (80 µg/m³)
Particulate Matter (PM_{10}) [1, 3, 6]	24-Hour	50 µg/m³	150 µg/m³
	Annual Arithmetic Mean	20 µg/m³	NA
Fine Particulate Matter ($PM_{2.5}$) [3, 4, 6, 9]	24-Hour	NA	35 µg/m³
	Annual Arithmetic Mean	12 µg/m³	12 µg/m³
Sulfates (SO_{4-2})	24 Hour	25 µg/m³	NA
Lead (Pb) [10, 11]	30-Day Average	1.5 µg/m³	NA
	Calendar Quarter	NA	1.5 µg/m³
	Rolling 3-Month Average	NA	0.15 µg/m³
Hydrogen Sulfide (H_2S)	1 Hour	0.03 ppm (0.42 µg/m³)	NA
Vinyl Chloride (C_2H_3Cl) [10]	24 Hour	0.01 ppm (26 µg/m³)	NA

Notes:
ppm = parts per million; µg/m³ = micrograms per cubic meter; mg/m³ = milligrams per cubic meter; – = no information available.

1 California standards for O_3, carbon monoxide (except Lake Tahoe), sulfur dioxide (1-hour and 24-hour), nitrogen dioxide, suspended particulate matter - PM_{10}, and visibility reducing particles are values that are not to be exceeded. The standards for sulfates, Lake Tahoe carbon monoxide, lead, hydrogen sulfide, and vinyl chloride are not to be equaled or exceeded. If the standard is for a 1-hour, 8-hour or 24-hour average (i.e. all standards except for lead and the PM_{10} annual standard), then some measurements may be excluded. Measurements are excluded that CARB determines would occur less than once per year on the average. The Lake Tahoe carbon monoxide standard is 6.0 ppm, a level one-half the national standard and two-thirds the State standard.

2 National standards shown are the "primary standards" designed to protect public health. National standards other than for O_3, particulates and those based on annual averages are not to be exceeded more than once a year. The 1-hour O_3 standard is attained if, during the most recent three-year period, the average number of days per year with maximum hourly concentrations above the standard is equal to or less than one. The 8-hour O_3 standard is attained when the 3-year average of the 4th highest daily concentrations is 0.070 ppm or less. The 24-hour PM_{10} standard is attained when the 3-year average of the 99th percentile of monitored concentrations is less than 150 µg/m_3. The 24-hour $PM_{2.5}$ standard is attained when the 3-year average of 98th percentiles is less than 35 µg/m³.

3 Except for the national particulate standards, annual standards are met if the annual average falls below the standard at every site. The national annual particulate standard for PM_{10} is met if the 3-year average falls below the standard at every site. The annual $PM_{2.5}$ standard is met if the 3-year average of annual averages spatially-averaged across officially designed clusters of sites falls below the standard.
NAAQS are set by the EPA at levels determined to be protective of public health with an adequate margin of safety.

4 On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm. An area will meet the standard if the fourth-highest maximum daily 8-hour O_3 concentration per year, averaged over three years, is equal to or less than 0.070 ppm. EPA will make recommendations on attainment designations by October 1, 2016, and issue final designations October 1, 2017. Nonattainment areas will have until 2020 to late 2037 to meet the health standard, with attainment dates varying based on the O_3 level in the area.

5 The national 1-hour O_3 standard was revoked by the EPA on June 15, 2005.

6 In June 2002, CARB established new annual standards for $PM_{2.5}$ and PM_{10}.

7 The 8-hour California O_3 standard was approved by the CARB on April 28, 2005 and became effective on May 17, 2006.

8 On June 2, 2010, the EPA established a new 1-hour SO_2 standard, effective August 23, 2010, which is based on the 3-year average of the annual 99th percentile of 1-hour daily maximum concentrations. The existing 0.030 ppm annual and 0.14 ppm 24-hour SO_2 NAAQS however must continue to be used until one year following EPA initial designations of the new 1-hour SO_2 NAAQS.

9 In December 2012, EPA strengthened the annual $PM_{2.5}$ NAAQS from 15.0 to 12.0 µg/m³. In December 2014, the EPA issued final area designations for the 2012 primary annual $PM_{2.5}$ NAAQS. Areas designated “unclassifiable/attainment” must continue to take steps to prevent their air quality from deteriorating to unhealthy levels. The effective date of this standard is April 15, 2015.

10 CARB has identified lead and vinyl chloride as ‘toxic air contaminants’ with no threshold level of exposure below which there are no adverse health effects determined.

11 National lead standard, rolling 3-month average: final rule signed October 15, 2008. Final designations effective December 31, 2011.

Source: South Coast Air Quality Management District, *Air Quality Management Plan*, 2016; California Air Resources Board, *Ambient Air Quality Standards*, May 6, 2016.

3.3 Regional

South Coast Air Quality Management District

The SCAQMD is the air pollution control agency for Orange County and the urban portions of Los Angeles, Riverside, and San Bernardino Counties. The agency's primary responsibility is ensuring that the CAAQS and NAAQS are attained and maintained in the SCAB. The SCAQMD is also responsible for adopting and enforcing rules and regulations concerning air pollutant sources, issuing permits for stationary sources of air pollutants, inspecting stationary sources of air pollutants, responding to citizen complaints, monitoring ambient air quality and meteorological conditions, awarding grants to reduce motor vehicle emissions, conducting public education campaigns, and many other activities. All projects are subject to SCAQMD rules and regulations in effect at the time of construction.

The SCAQMD is also the lead agency in charge of developing the AQMP, with input from the Southern California Association of Governments (SCAG) and CARB. The AQMP is a comprehensive plan that includes control strategies for stationary and area sources, as well as for on-road and off-road mobile sources. SCAG has the primary responsibility for providing future growth projections and the development and implementation of transportation control measures. CARB, in coordination with federal agencies, provides the control element for mobile sources.

The 2016 AQMP was adopted by the SCAQMD Governing Board on March 3, 2017. The purpose of the 2016 AQMP is to set forth a comprehensive and integrated program that would lead the SCAB into compliance with the federal 24-hour $PM_{2.5}$ air quality standard, and to provide an update to the SCAQMD's commitments towards meeting the federal 8-hour O_3 NAAQS. Specifically, the 2016 AQMP covers the following federal standards: 1979 1-hour O_3 NAAQS, 1997 8-hour O_3 NAAQS, 2006 24-hour $PM_{2.5}$ NAAQS, 2008 8-hour O_3 NAAQS, and the 2012 annual $PM_{2.5}$ NAAQS.

On October 1, 2015, the U.S. EPA strengthened the NAAQS for ground-level O_3. The 2022 AQMP, adopted by the SCAQMD Governing Board on December 2, 2022, was developed to address the requirements for meeting the 2015 8-hour O_3 standard. The 2022 AQMP builds upon measures already in place from previous AQMPs. It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., zero emissions technologies, when cost-effective and feasible, and low NO_X technologies in other applications), best management practices, co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and other FCAA measures to achieve the 2015 8-hour ozone standard. The 2022 AQMP incorporates the latest scientific and technological information and planning assumptions, including the *2020-2045 Regional Transportation Plan/Sustainable Communities Strategy* (RTP/SCS) and updated emission inventory methodologies for various source categories. The 2022 AQMP requires CARB's adoption before submittal for the U.S. U.S. EPA's final approval, which is expected to occur sometime in 2023.

The SCAQMD has published the *CEQA Air Quality Handbook* (approved by the SCAQMD Governing Board in 1993 and augmented with guidance for Local Significance Thresholds [LSTs] in 2008). The SCAQMD guidance helps local government agencies and consultants to develop environmental documents required by CEQA and provides identification of suggested thresholds of significance for criteria pollutants for both construction and operation (see discussion of thresholds below). With the help of the *CEQA Air Quality Handbook* and associated guidance, local land use planners and consultants are able to analyze and

document how proposed and existing projects affect air quality in order to meet the requirements of the CEQA review process. The SCAQMD periodically provides supplemental guidance and updates to the handbook on their website.

SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial counties and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. Under federal law, SCAG is designated as a Metropolitan Planning Organization and under State law as a Regional Transportation Planning Agency and a Council of Governments.

The state and federal attainment status designations for the SCAB are summarized in Table 5: South Coast Air Basin Attainment Status. The SCAB is currently designated as a nonattainment area for O_3, PM_{10}, and $PM_{2.5}$ CAAQS, as well as the 8-hour O_3 and $PM_{2.5}$ NAAQS. The SCAB is designated as attainment or unclassified for the remaining CAAQS and NAAQS.

Table 5: South Coast Air Basin Attainment Status

Pollutant	State	Federal
Ozone (O_3) (1 Hour Standard)	Non-Attainment	Non-Attainment (Extreme)
Ozone (O_3) (8 Hour Standard)	Non-Attainment	Non-Attainment (Extreme)
Particulate Matter ($PM_{2.5}$) (24 Hour Standard)	–	Non-Attainment (Serious)
Particulate Matter ($PM_{2.5}$) (Annual Standard)	Non-Attainment	Non-Attainment (Moderate)
Particulate Matter (PM_{10}) (24 Hour Standard)	Non-Attainment	Attainment (Maintenance)
Particulate Matter (PM_{10}) (Annual Standard)	Non-Attainment	–
Carbon Monoxide (CO) (1 Hour Standard)	Attainment	Attainment (Maintenance)
Carbon Monoxide (CO) (8 Hour Standard)	Attainment	Attainment (Maintenance)
Nitrogen Dioxide (NO_2) (1 Hour Standard)	Attainment	Unclassifiable/Attainment
Nitrogen Dioxide (NO_2) (Annual Standard)	Attainment	Attainment (Maintenance)
Sulfur Dioxide (SO_2) (1 Hour Standard)	Attainment	Unclassifiable/Attainment
Sulfur Dioxide (SO_2) (24 Hour Standard)	Attainment	–
Lead (Pb) (30 Day Standard)	–	Unclassifiable/Attainment
Lead (Pb) (3 Month Standard)	Attainment	–
Sulfates (SO_{4-2}) (24 Hour Standard)	Attainment	–
Hydrogen Sulfide (H_2S) (1 Hour Standard)	Unclassified	–

Source: South Coast Air Quality Management District, *Air Quality Management Plan*, 2016; United States Environmental Protection Agency, *Nonattainment Areas for Criteria Pollutants (Green Book)*, 2023.

The following is a list of SCAQMD rules that are required of construction activities associated with the Project:

- **Rule 402 (Nuisance)** – This rule prohibits the discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. This rule does not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

- **Rule 403 (Fugitive Dust)** – This rule requires fugitive dust sources to implement best available control measures for all sources, and all forms of visible particulate matter are prohibited from crossing any property line. This rule is intended to reduce PM_{10} emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust. PM_{10} suppression techniques are summarized below.

    a) Portions of a construction site to remain inactive longer than a period of three months will be seeded and watered until grass cover is grown or otherwise stabilized.

    b) All on-site roads will be paved as soon as feasible or watered periodically or chemically stabilized.

    c) All material transported off-site will be either sufficiently watered or securely covered to prevent excessive amounts of dust.

    d) The area disturbed by clearing, grading, earthmoving, or excavation operations will be minimized at all times.

    e) Where vehicles leave a construction site and enter adjacent public streets, the streets will be swept daily or washed down at the end of the workday to remove soil tracked onto the paved surface.

- **Rule 431.2** (**Sulfur Content of Liquid Fuels)** – This rule limits the sulfur content in diesel and other liquid fuels for the purpose of both reducing the formation of sulfur oxides and particulates during combustion and to enable the use of add-on control devices for diesel fueled internal combustion engines.

- **Rule 1113 (Architectural Coatings)** – This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce ROG emissions from the use of these coatings, primarily by placing limits on the ROG content of various coating categories.

- **Rule 2305 (Warehouse Indirect Source Rule)** - Rule 2305 was adopted by the SCAQMD Governing Board on May 7, 2021 to reduce NO_X and particulate matter emissions associated with warehouses and mobile sources attracted to warehouses. This rule applies to all existing and proposed warehouses over 100,000 square feet located in the SCAQMD. Rule 2305 requires warehouse operators to track annual vehicle miles traveled associated with truck trips to and from the warehouse. These trip miles are used to calculate the warehouses WAIRE (Warehouse

Actions and Investments to Reduce Emissions) Points Compliance Obligation. WAIRE Points are earned based on emission reduction measures and warehouse operators are required to submit an annual WAIRE Report which includes truck trip data and emission reduction measures. Reduction strategies listed in the WAIRE menu include acquire zero emission (ZE) or near zero emission (NZE) trucks; require ZE/NZE truck visits; require ZE yard trucks; install on-site ZE charging/fueling infrastructure; install onsite energy systems; and install filtration systems in residences, schools, and other buildings in the adjacent community. Warehouse operators that do not earn a sufficient number of WAIRE points to satisfy the WAIRE Points Compliance Obligation would be required to pay a mitigation fee. Funds from the mitigation fee will be used to incentivize the purchase of cleaner trucks and charging/fueling infrastructure in communities nearby.

3.4 Local

City of Highland General Plan

The City of Highland General Plan is a long-range planning document that provides the City a framework for action and the direction in which to focus that action. The following goals and policies focusing on improving air quality are applicable to the proposed Project:

Circulation Element

Goal 3.6 **Provide a circulation system that reduces conflicts between commercial trucking, private/public transportation and land use.**

Policy 3.6.8 Require as a part of the development review process for all new or expanding mineral extraction and all other heavy industry activities within the City, that the following information be provided: "…a detailed plan of haul roads, indicating measurements that will be taken to minimize aesthetic, noise, traffic, and particulate emission impacts to the surrounding land uses…"

Policy 3.6.9 Work with private mining operators to establish specialized truck routes that mitigate, to the extent feasible, the noise, dust, and vibration effects of such transport activities on surrounding land uses.

Conservation & Open Space Element

Goal 5.19 **Continue to support air quality planning through land use policies, outreach efforts, and coordination with regional air quality agencies.**

Policy 5.19.1 Reduce locally generated emissions through traffic flow improvements (including signal synchronization) and construction management practices.

Policy 5.19.6 Provide incentives such as permit streamlining for industrial/commercial or residential development projects that meet or exceed air quality practices.

Policy 5.19.7 Encourage employers to develop trip reduction plans to promote alternative work schedules, ridesharing, telecommuting and work-at-home programs, employee education and preferential parking.

Policy 5.19.10 Reduce particulate emissions from roads, parking lots, construction sites and agricultural lands to the maximum extent practical through dust suppression, street cleaning and other practices.

Policy 5.19.11 Establish grading and building permitting procedures so that all construction involving demolition or earth movement reduces fugitive dust emissions through the appropriate techniques (e.g., wetting).

Policy 5.19.13 Continue comprehensive efforts to reduce energy consumption.

Policy 5.19.14 Offer incentives to home-based businesses, carpool networks and park-and-ride facilities.

Public Health and Safety Element

Goal 6.4 **Protect life and property from the potential short-and long term risks of transporting, storing, treating, and disposing of hazardous materials and wastes in the City.**

Policy 6.4.2 Require that new facilities involved in the production, use, storage, transport or disposal of hazardous materials locate a safe distance from land uses that may be adversely impacted by such activities. Conversely, do not allow new sensitive facilities, such as schools, child-care centers, and senior centers, to be located near existing sites that use, store or generate hazardous materials.

Goal 6.8 **Reduce mobile and stationary source air pollutant emissions through cooperation and endorsement of the San Bernardino Regional Air Quality Plan and support of feasible techniques, incentives, and regulatory measures to achieve significant air quality improvements and any necessary air quality related lifestyle and economic changes while sustaining continued economic growth.**

Policy 6.8.6 Cooperate with regional transit agencies in the continued development of diverse and efficiently operated transportation systems that generate the minimum feasible pollutants.

Policy 6.8.8 Develop transportation demand management programs and incentives to reduce home to work vehicle trips.

Policy 6.8.11 Reduce the number of vehicles driven to work by requiring as part of the development review process that preferential parking be included in parking lot designs to high occupancy vehicles, vanpools, and shuttle services, if applicable.

Policy 6.8.14 Reduce particulate emissions from construction sites, grading activities, temporary roads and parking lots, and agricultural operations by enforcing requirements that minimize fugitive dust.

Policy 6.8.16 Reduce particulate and stationary emissions attributed to the removal, transportation, and processing of mineral resources by enforcing required permits and physical barrier requirements that minimize the effects of dust from day-to-day operations of mineral extraction, transportation, and processing facilities.

Community Design Element

Goal 10.12 Encourage development that is energy efficient and environmentally sustainable.

Policy 10.12.1 Encourage landscaping practices that increase energy efficiency and conserve natural resources.

Policy 10.12.8 During construction, require developers and builders to protect topsoil in order to reduce dust and runoff impacts.

4 SIGNIFICANCE CRITERIA AND METHODOLOGY

4.1 Air Quality Thresholds

Based upon the criteria derived from Appendix G of the CEQA Guidelines, a Project normally would have a significant effect on the environment if it would:

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is in nonattainment under an applicable State or federal ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

SCAQMD Thresholds

The significance criteria established by SCAQMD may be relied upon to make the above determinations. According to the SCAQMD, an air quality impact is considered significant if the Project would violate any ambient air quality standard, contribute substantially to an existing or projected air quality violation, or expose sensitive receptors to substantial pollutant concentrations. The SCAQMD has established thresholds of significance for air quality during construction and operational activities of land use development projects, as shown in Table 6: South Coast Air Quality Management District Emissions Thresholds.

Table 6: South Coast Air Quality Management District Emissions Thresholds

Criteria Air Pollutants and Precursors	Pounds per Day	
	Construction-Related	Operational-Related
Reactive Organic Gases (ROG)	75	55
Carbon Monoxide (CO)	550	550
Nitrogen Oxides (NO_X)	100	55
Sulfur Oxides (SO_X)	150	150
Coarse Particulates (PM_{10})	150	150
Fine Particulates ($PM_{2.5}$)	55	55

Source: South Coast Air Quality Management District, *South Coast AQMD Air Quality Significance Thresholds,* April 2019.

Localized Carbon Monoxide

In addition to the daily thresholds listed above, the Project would also be subject to the CAAQS and NAAQS. These are addressed though an analysis of localized CO impacts. The significance of localized impacts depends on whether ambient CO levels near the Project site are above the CAAQS and NAAQS (the more stringent California CO CAAQS are 20 ppm for 1-hour and 9 ppm for 8-hour). The SCAB has been designated as attainment under the 1-hour and 8-hour CAAQS.

Localized Significance Thresholds (LSTs)

In addition to the CO hotspot analysis, the SCAQMD developed LSTs for emissions of NO_2, CO, PM_{10}, and $PM_{2.5}$ generated at new development sites (off-site mobile source emissions are not included in the LST analysis). LSTs represent the maximum emissions that can be generated at a project without expecting to

cause or substantially contribute to an exceedance of the most stringent state or federal ambient air quality standards. LSTs are based on the ambient concentrations of that pollutant within the Project source receptor area (SRA), as demarcated by the SCAQMD, and the distance to the nearest sensitive receptor. LST analysis for construction is applicable for all projects that disturb 5 acres or less on a single day. The City of Highland is located within SCAQMD SRA 34. Table 7: Local Significance Thresholds for Construction/Operations, shows the LSTs for a 1-acre, 2-acre, and 5-acre project in SRA 34 within 25 meters of the Project. The nearest sensitive receptor is a residential property located at approximately 30 meters to the south. Therefore, the lowest thresholds distance of 30 meters were interpolated and used for the analysis based on the SCAQMD LST methodology guidance. LSTs associated with all acreage categories are provided in Table 7 for informational purposes. Table 7 shows that the LSTs increase as acreage increases. It should be noted that LSTs are screening thresholds and are therefore conservative. The construction LST acreage is determined based on daily acreage disturbed. The operational LST acreage is based on the total area of the Project site. Although the Project site is greater than five acres, the 5-acre operational LSTs are conservatively used to evaluate the Project.

Table 7: Local Significance Thresholds for Construction/Operations

Project Size	Pounds per Day			
	Nitrogen Oxide (NO_x)	Carbon Monoxide (CO)	Coarse Particulates (PM_{10})	Fine Particulates ($PM_{2.5}$)
1 Acre	118/118	667/667	4/1	3/1
2 Acres	170/170	972/972	7/2	4/1
5 Acres	270/270	1,746/1,746	14/4	8/2

Source: South Coast Air Quality Management District, *Localized Significance Threshold Methodology,* July 2008.

4.2 Methodology

This air quality impact analysis considers the Project's construction and operational impacts. Where criteria air pollutant quantification was required, emissions were modeled using the California Emissions Estimator Model (CalEEMod). CalEEMod is a Statewide land use emissions computer model designed to quantify potential criteria pollutant emissions associated with both construction and operations from a variety of land use projects. Air quality impacts were assessed according to methodologies recommended by CARB and the SCAQMD.

Construction equipment, trucks, worker vehicles, and ground-disturbing activities associated with Project construction would generate emissions of criteria air pollutants and precursors. Daily regional construction emissions are estimated by assuming construction occurs at the earliest feasible date (i.e., a conservative estimate of construction activities) and applying off-road, fugitive dust, and on-road emissions factors in CalEEMod.

Project operations would result in emissions of area sources (consumer products, architectural coating, and landscape equipment), energy sources (natural gas usage), mobile sources (motor vehicles from Project generated vehicle trips), and off-road equipment. Project-generated increases in operational emissions would be predominantly associated with motor vehicle use. The traffic trip generation attributed to the proposed Project was obtained from the Project's Traffic Study prepared by Kimley-Horn and Associates, Inc. (March 2023). Other operational emissions from area, energy, and stationary sources were quantified in CalEEMod based on land use activity data.

As discussed above, the SCAQMD provides significance thresholds for emissions associated with proposed Project construction and operations. The proposed Project's construction and operational emissions are compared to the daily criteria pollutant emissions significance thresholds in order to determine the significance of a Project's impact on regional air quality.

The localized effects from the Project's on-site emissions were evaluated in accordance with the SCAQMD's Localized Significance Threshold Methodology, which uses on-site mass emissions rate look-up tables and project-specific modeling. LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable NAAQS or CAAQS and are developed based on the ambient concentrations of that pollutant for each source receptor area and distance to the nearest sensitive receptor.

5 POTENTIAL IMPACTS AND MITIGATION

5.1 Air Quality Analysis

Threshold 5.1 Would the Project conflict with or obstruct implementation of the applicable air quality plan?

As part of its enforcement responsibilities, the EPA requires each state with nonattainment areas to prepare and submit a State Implementation Plan that demonstrates the means to attain the federal standards. The State Implementation Plan must integrate federal, state, and local plan components and regulations to identify specific measures to reduce pollution in nonattainment areas, using a combination of performance standards and market-based programs. Similarly, under State law, the CCAA requires an air quality attainment plan to be prepared for areas designated as nonattainment regarding the state and federal ambient air quality standards. Air quality attainment plans outline emissions limits and control measures to achieve and maintain these standards by the earliest practical date.

The Project is located within the SCAB, which is under the jurisdiction of the SCAQMD. The SCAQMD is required, pursuant to the FCAA, to reduce emissions of criteria pollutants for which the SCAB is in nonattainment. To reduce such emissions, the SCAQMD drafted the 2016 and 2022 AQMPs (AQMPs). The AQMPs establish a program of rules and regulations directed at reducing air pollutant emissions and achieving California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS). The AQMPs are a regional and multi-agency effort including the SCAQMD, the CARB, the SCAG, and the EPA. The pollutant control strategies in the AQMPs are based on the latest scientific and technical information and planning assumptions, including SCAG's Connect SoCal 2020-2045 RTP/SCS, updated emission inventory methodologies for various source categories, and SCAG's latest growth forecasts. SCAG's latest growth forecasts were defined in consultation with local governments and with reference to local general plans. The Project is subject to the AQMPs.

Criteria for determining consistency with the AQMPs are defined by the following indicators:

- **Consistency Criterion No. 1**: The Project will not result in an increase in the frequency or severity of existing air quality violations, or cause or contribute to new violations, or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMPs.
- **Consistency Criterion No. 2**: The Project will not exceed the assumptions in the AQMPs or increments based on the years of the Project build-out phase.

According to the SCAQMD's *CEQA Air Quality Handbook*, the purpose of the consistency finding is to determine if a project is inconsistent with the assumptions and objectives of the regional air quality plans, and thus if it would interfere with the region's ability to comply with CAAQS and NAAQS.

The violations to which Consistency Criterion No. 1 refers are CAAQS and NAAQS. As shown in Table 8, Table 9, Table 11, and Table 12 below, the Project would not exceed the construction standards, operational standards, or localized significance thresholds. Therefore, the Project would not contribute to an existing air quality violation. Thus, the Project would be consistent with the first criterion.

Concerning Consistency Criterion No. 2, the AQMPs contain air pollutant reduction strategies based on SCAG's latest growth forecasts, and SCAG's growth forecasts were defined in consultation with local governments and with reference to local general plans. The Project site's General Plan land use designation is Industrial, and the zoning designation is Industrial (I). The Project is consistent with the City's General Plan land use designation and the zoning. As such, the Project would not result in substantial unplanned growth or unaccounted for growth in the General Plan used by the SCAQMD to develop the AQMPs. Thus, a less than significant impact would occur no impact would occur, as the Project is also consistent with the second criterion.

In addition, in accordance with South Coast AQMD Rule 2305 (refer to South Coast Air Quality Management District under Section 3.4 Regulatory Setting) the Project operator would be required to pay a mitigation fee if the Project does not generate enough WAIRE Points. The Project operator may be required to implement additional emission reduction strategies. Conservatively, this analysis does not take credit for these potential reductions. Compliance with proposed Rule 2305 would reduce emissions below what is currently analyzed.

Mitigation Measures: No mitigation is required.

Level of Significance: Less than significant impact.

Threshold 5.2 Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable state or federal ambient air quality standard?

Construction Emissions

Construction associated with the Project would generate short-term emissions of criteria air pollutants. The criteria pollutants of primary concern within the Project area include O_3-precursor pollutants (i.e., ROG and NO_X) and PM_{10} and $PM_{2.5}$. Construction-generated emissions are short term and of temporary duration, lasting only as long as construction activities occur, but would be considered a significant air quality impact if the volume of pollutants generated exceeds the SCAQMD's thresholds of significance.

Construction results in the temporary generation of emissions resulting from site grading, road paving, motor vehicle exhaust associated with construction equipment and worker trips, and the movement of construction equipment, especially on unpaved surfaces. Emissions of airborne particulate matter are largely dependent on the amount of ground disturbance associated with site preparation activities as well as weather conditions and the appropriate application of water.

Construction of the Project is anticipated to begin in October 2023 and is estimated to be completed within approximately 10 months. Construction-generated emissions associated with the Project were calculated using the CARB-approved CalEEMod computer program, which is designed to model emissions for land use development projects, based on typical construction requirements. See Appendix A: Air Quality Modeling Data for more information regarding the construction assumptions used in this analysis. Predicted maximum daily construction-generated emissions for the Project are summarized in Table 8: Construction-Related Emissions.

Table 8: Construction-Related Emissions						
Construction Year	**Pollutant (Maximum Pounds per Day)**					
	Reactive Organic Gases (ROG)	**Nitrogen Oxide (NO_x)**	**Carbon Monoxide (CO)**	**Sulfur Dioxide (SO_2)**	**Coarse Particulate Matter (PM_{10})**	**Fine Particulate Matter ($PM_{2.5}$)**
2023	4.04	40.4	36.7	0.10	16.0	5.65
2024	25.3	13.6	24.1	0.03	2.47	0.95
SCAQMD Threshold	*75*	*100*	*550*	*150*	*55*	*150*
Exceed SCAQMD Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Notes: SCAQMD Rule 403 Fugitive Dust applied. The Rule 403 reduction/credits include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces two times daily; cover stock piles with tarps; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour. Reductions percentages from the SCAQMD CEQA Handbook (Tables XI-A through XI-E) were applied.						
Source: CalEEMod version 2022.1. Refer to Appendix A: Air Quality Monitoring Data for model outputs.						

Table 8 shows that all criteria pollutant emissions would remain below their respective thresholds. While impacts would be considered less than significant, the Project would be subject to SCAQMD Rules 402, 403, and 1113, described in the Regulatory Framework subsection above.

Fugitive dust emissions may have a temporary impact on local air quality. In addition, fugitive dust may be a nuisance to those living and working in the Project vicinity. Uncontrolled dust from construction can become a nuisance and potential health hazard to those living and working nearby. SCAQMD Rules 402 and 403 (prohibition of nuisances, watering of inactive and perimeter areas, track out requirements, etc.), are applicable to the Project and were applied in CalEEMod to minimize fugitive dust emissions. While impacts would be considered less than significant, the Project would be subject to SCAQMD Rules for reducing fugitive dust, described in the Regulatory Framework subsection above.

Operational Emissions

The Project's operational emissions would be associated with area sources (e.g., landscape maintenance equipment, architectural coatings, off-road equipment, etc.), energy sources, mobile sources (i.e., motor vehicle use), and off-road equipment. Primary sources of operational criteria pollutants are from motor vehicle use and area sources. Long-term operational emissions attributable to the Project are summarized in Table 9: Operational Emissions. The operational emissions sources are described below.

- **Area Source Emissions.** Area source emissions would be generated due to on-site equipment, architectural coating, and landscaping that were previously not present on the site.
- **Energy Source Emissions.** Energy source emissions would be generated due to electricity and natural gas usage associated with the Project. Primary uses of electricity and natural gas by the Project would be for miscellaneous warehouse equipment, space heating and cooling, water heating, ventilation, lighting, appliances, and electronics.
- **Mobile Source.** Mobile sources are emissions from motor vehicles, including tailpipe and evaporative emissions. Depending upon the pollutant being discussed, the potential air quality impact may be of either regional or local concern. For example, ROG, NO_X, PM_{10}, and $PM_{2.5}$ are all pollutants of regional concern. NO_X and ROG react with sunlight to form O_3, known as

photochemical smog. Additionally, wind currents readily transport PM_{10} and $PM_{2.5}$. However, CO tends to be a localized pollutant, dispersing rapidly at the source.

Project-generated vehicle emissions are based on the trip generation within the Project's Traffic Study and incorporated into CalEEMod as recommended by the SCAQMD. Per the Project's Traffic Study, the Project would generate a total of 487 daily trips.

- **Off-Road Equipment Emissions.** Because the Project is a speculative warehouse development and the final end user is not known, to be conservative it was assumed that the Project would operate six forklifts and one yard truck for twelve hours per day.

Table 9: Operational Emissions

Source	Maximum Pounds Per Day					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Existing Emissions						
Area Source Emissions	1.40	0.07	5.01	0.01	0.65	0.63
Energy Emissions	0.00	0.03	0.02	0.00	0.00	0.00
Mobile Emissions	0.09	0.09	0.78	0.00	0.06	0.01
Existing Total Emissions	**1.49**	**0.19**	**5.81**	**0.01**	**0.71**	**0.64**
Proposed Project Emissions						
Area Source Emissions	6.49	0.00	0.00	0.00	0.00	0.00
Energy Emissions	0.08	1.47	1.24	0.01	0.11	0.11
Mobile Emissions	1.54	15.2	20.4	0.14	3.23	0.85
Off-Road Emissions - Forklift	0.76	7.21	9.47	0.01	0.41	0.38
Off-Road Emissions – Yard Truck	0.40	3.54	3.95	0.01	0.17	0.15
Project Total Emissions	**9.27**	**27.42**	**35.06**	**0.17**	**3.92**	**1.49**
Net Emissions (Project Minus Existing)	**7.78**	**27.23**	**29.25**	**0.16**	**3.21**	**0.85**
SCAQMD Threshold	*55*	*55*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

ROG = Reactive Organic Gases; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_2 = Sulfur Dioxide; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less

Source: CalEEMod version 2022.1. Refer to Appendix A for model outputs.

It should be noted that existing uses consist of a steel industrial facility and a single-family residence, which will be removed as part of the Project. Emissions associated with existing uses have been estimated based on CalEEMod default data and have been subtracted from the proposed Project's emissions for the net new emissions total.

As shown in Table 9**,** the Project's net operational emissions would not exceed SCAQMD thresholds for any criteria air pollutants. Therefore, long-term operational emissions would result in a less than significant impact.

In addition, Rule 2305 requires the Project operator to directly reduce NO_X and particulate matter emissions or otherwise facilitate emission and exposure reductions of these pollutants in nearby communities. Alternatively, warehouse operators can choose to pay a mitigation fee. Funds from the mitigation fee will be used to incentivize the purchase of cleaner trucks and charging/fueling infrastructure in communities nearby.

Warehouse owners and operators are required to earn Warehouse Actions and Investments to Reduce Emissions (WAIRE) Points each year. WAIRE points are a menu-based system earned by emission reduction measures. Warehouse operators are required to submit an annual WAIRE Report which includes truck trip data and emission reduction measures. WAIRE points can be earned by completing actions from a menu that can include acquiring and using natural gas, Near-Zero Emissions and/or Zero-Emissions on-road trucks, zero-emission cargo handling equipment, solar panels or zero-emission charging and fueling infrastructure, or other options. Therefore, the Project operator would be required to implement additional emission reduction strategies. Conservatively, this analysis does not take credit for these potential reductions. Compliance with Rule 2305 would reduce emissions below what is currently analyzed.

Cumulative Short-Term Emissions

The SCAB is designated nonattainment for O_3, PM_{10}, and $PM_{2.5}$ for the CAAQS and nonattainment for O_3 and $PM_{2.5}$ for the NAAQS. Appendix D of the SCAQMD *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (2003) notes that projects that result in emissions that do not exceed the project specific SCAQMD regional thresholds of significance should result in a less than significant impact on a cumulative basis unless there is other pertinent information to the contrary. The mass-based regional significance thresholds published by the SCAQMD are designed to ensure compliance with both NAAQS and CAAQS and are based on an inventory of projected emissions in the SCAB. Therefore, if a project is estimated to result in emissions that do not exceed the thresholds, the project's contribution to the cumulative air quality impact in the SCAB would not be cumulatively considerable. As shown in Table 8 above, Project construction-related emissions by themselves would not exceed the SCAQMD significance thresholds for criteria pollutants. Therefore, the Project would not generate a cumulatively considerable contribution to air pollutant emissions during construction.

The SCAQMD has developed strategies to reduce criteria pollutant emissions outlined in the AQMPs pursuant to the FCAA mandates. The analysis assumed fugitive dust controls would be utilized during construction, including frequent water applications. SCAQMD rules, mandates, and compliance with adopted emissions control measures would also be imposed on construction projects throughout the SCAB, which would include related projects. Compliance with SCAQMD rules and regulations would further reduce Project construction-related emissions. Therefore, Project-related construction emissions, combined with those from other projects in the area, would not substantially deteriorate local air quality. The Project's construction-related emissions would not result in a cumulatively considerable contribution to significant cumulative air quality.

Cumulative Long-Term Impacts

The SCAQMD has not established separate significance thresholds for cumulative operational emissions. The nature of air emissions is largely a cumulative impact. As a result, no single project is sufficient in size to, by itself, result in nonattainment of ambient air quality standards. Instead, individual project emissions contribute to existing cumulatively significant adverse air quality impacts. The SCAQMD developed the operational thresholds of significance based on the level above which individual project emissions would result in a cumulatively considerable contribution to the SCAB's existing air quality conditions. Therefore, a project that exceeds the SCAQMD operational thresholds would also be a cumulatively considerable contribution to a significant cumulative impact.

As shown in Table 9, the Project's net operational emissions would not exceed SCAQMD thresholds. As a result, operational emissions associated with the Project would not result in a cumulatively considerable contribution to significant cumulative air quality impacts. Additionally, adherence to SCAQMD rules and regulations would alleviate potential impacts related to cumulative conditions on a project-by-project basis. Project operations would not contribute a cumulatively considerable net increase of any nonattainment criteria pollutant.

Laws, Ordinances, and Regulations:

Laws, Ordinances, and Regulations (LOR) are existing requirements that are based on local, state, or federal regulations or laws that are frequently required independently of CEQA review. Typical LORs include compliance with the provisions of the Building Code, SCAQMD Rules, etc. The City may impose additional conditions during the approval process, as appropriate. Because LORs are neither Project specific nor a result of development of the Project, they are not considered to be either Project Design Features or Mitigation Measures.

LOR AQ-1 Prior to the issuance of grading permits, the City Engineer shall confirm that the Grading Plan, Building Plans and Specifications require all construction contractors to comply with South Coast Air Quality Management District's (SCAQMD's) Rules 402 and 403 to minimize construction emissions of dust and particulates. The measures include, but are not limited to, the following:

- Portions of a construction site to remain inactive longer than a period of three months will be seeded and watered until grass cover is grown or otherwise stabilized.
- All on-site roads will be paved as soon as feasible or watered periodically or chemically stabilized.
- All material transported off site will be either sufficiently watered or securely covered to prevent excessive amounts of dust.
- The area disturbed by clearing, grading, earthmoving, or excavation operations will be minimized at all times.
- Where vehicles leave a construction site and enter adjacent public streets, the streets will be swept daily or washed down at the end of the work day to remove soil tracked onto the paved surface.

SC AQ-2 Pursuant to SCAQMD Rule 1113, the Project Applicant shall require by contract specifications that the interior and exterior architectural coatings products used would have a volatile organic compound rating of 50 grams per liter or less.

LOR AQ-3 Require diesel powered construction equipment to turn off when not in use per Title 13 of the California Code of Regulations, Section 2449.

LOR AQ-4 Install water-efficient irrigation systems and devices, such as soil moisture-based irrigation controls and sensors for landscaping according to the City's Water Efficient Landscape requirements (Chapter 16.40.390 of the City's Municipal Code).

LOR AQ-5 The Project shall be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every three years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10(b)1) require all buildings to be designed to have a total area of at least 15 percent (after subtracting any skylights) "solar ready" zone on the roof top that will structurally accommodate later installation of rooftop solar panels. The installation of the solar panels is specific to the end use and will be determined at the time the specific projects are developed. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.

LOR AQ-6 The Project shall be designed in accordance with the applicable California Green Building Standards (CALGreen) Code (24 CCR, Part 11). The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. These requirements include, but are not limited to:

- Design buildings to be water-efficient. Install water-efficient fixtures in accordance with Section 4.303 (residential) and Section 5.303 (nonresidential) of the California Green Building Standards Code Part 11.
- Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 4.408.1 (residential) and Section 5.408.1 (nonresidential) of the California Green Building Standards Code Part 11.
- Provide storage areas for recyclables and green waste and adequate recycling containers located in readily accessible areas in accordance with Section 4.410 (residential) and Section 5.410 (nonresidential) of the California Green Building Standards Code Part 11.
- Provide designated parking for any combination of low-emitting, fuel efficient and carpool/van pool vehicles. At least eight percent of the total parking spaces are required to be designated in accordance with Section 5.106.5.2 (nonresidential), Designated Parking for Clean Air Vehicles, of the California Green Building Standards Code Part 11.
- To facilitate future installation of electric vehicle supply equipment (EVSE), residential construction shall comply with Section 4.106.4 (residential electric vehicle charging) of the California Green Building Standards Code Part 11 and nonresidential construction shall comply with Section 5.106.5.3 (nonresidential electric vehicle charging) of the California Green Building Standards Code Part 11.

Mitigation Measures: No mitigation is required.

Level of Significance: Less than significant impact.

Threshold 5.3 Would the Project expose sensitive receptors to substantial pollutant concentrations?

Localized Construction Significance Analysis

The nearest sensitive receptor is the single-family residences located 97 feet (30 meters) to the south of the Project site. To identify impacts to sensitive receptors, the SCAQMD recommends addressing LSTs for construction. LSTs were developed in response to SCAQMD Governing Boards' Environmental Justice Enhancement Initiative (I-4). The SCAQMD provided the *Final Localized Significance Threshold Methodology* (dated June 2003 [revised 2008]) for guidance. The LST methodology assists lead agencies in analyzing localized impacts associated with Project-specific emissions.

Since CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily soil disturbance activity possible for each piece of equipment, Table 10: Equipment-Specific Grading Rates, is used to determine the maximum daily disturbed acreage for comparison to LSTs. The appropriate SRA for the localized significance thresholds is the Central San Bernardino Valley (SRA 34) since this area includes the Project. LSTs apply to CO, NO_2, PM_{10}, and $PM_{2.5}$. The SCAQMD produced look-up tables for projects that disturb areas less than or equal to 5 acres in size. Project construction is anticipated to disturb a maximum of 4 acres in a single day during the grading phase. As the LST guidance provides thresholds for projects disturbing 1-, 2-, and 5-acres in size and the thresholds increase with size of the site, the LSTs for a 4-acre threshold were interpolated and utilized for this analysis.

Table 10: Equipment-Specific Grading Rates

Construction Phase	Equipment Type	Equipment Quantity	Acres Graded per 8-Hour Day	Operating Hours per Day	Acres Graded per Day
Grading	Tractors	2	1	8	1
	Graders	1	0.5	8	0.5
	Dozers	1	0.5	8	0.5
	Scrapers	2	2	8	2
				Total Acres Graded per Day	**4**

Source: CalEEMod version 2022.1 Refer to Appendix A for model outputs.

The SCAQMD's methodology states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs." Therefore, only emissions included in the CalEEMod "on-site" emissions outputs were considered. The nearest sensitive receptors are single-family residences located 97 feet (30 meters) south of the Project site. LST thresholds are provided for distances to sensitive receptors of 25, 50, 100, 200, and 500 meters. Therefore, LSTs for 30 meters were interpolated and utilized in this analysis. Table 11: Localized Significance of Construction Emissions, shows the results of localized emissions during construction. This table represents the worst-case scenario and are based on peak earthwork volumes anticipated. As shown, localized Project construction emissions would not exceed SCAQMD thresholds. Impacts would be less than significant in this regard.

Table 11: Localized Significance of Construction Emissions				
Construction Activity	**Pollutant (Maximum Pounds per Day)[1]**			
	Nitrogen Oxide (NO_x)	**Carbon Monoxide (CO)**	**Coarse Particulate Matter (PM_{10})**	**Fine Particulate Matter ($PM_{2.5}$)**
Demolition (2023)	27.3	23.5	13.1	2.91
Site Preparation (2023)	39.7	35.5	9.48	5.60
Grading (2023)	37.3	31.4	5.18	2.90
Building Construction (2023)	11.8	13.2	0.55	0.51
Building Construction (2024)	11.2	13.1	0.54	0.46
Paving (2024)	7.81	10.00	0.39	0.36
Architectural Coating (2024)	0.91	1.15	0.03	0.03
Maximum Emissions	*39.7*	*35.5*	*13.1*	*5.60*
SCAQMD Localized Screening Threshold (adjusted for 4 acres at 30 meters)	*243*	*1,607*	*17*	*7*
Exceed SCAQMD Threshold?	**No**	**No**	**No**	**No**
Source: CalEEMod version 2022.1 Refer to Appendix A: Air Quality Modeling Data for model outputs.				

Localized Operational Significance Analysis

According to the SCAQMD LST methodology, LSTs would apply to the operational phase of a project only if it includes stationary sources or attracts mobile sources that may spend long periods queuing and idling at the site (e.g., warehouse or transfer facilities). Since the Project is a warehouse, the operational phase LST protocol is conservatively applied to both the area source and mobile source emissions. As the nearest receptor is located approximately 97 feet (30 meters) from the Project site, LSTs for 30 meters for SRA 34 were interpolated and used in this analysis. Although the Project site is 12.8 acres, the 5-acre LST threshold was conservatively assumed for the Project, as the LSTs increase with the size of the site. Therefore, the 5-acre LSTs are conservative for evaluation of a 12.8-acre site.

The LST analysis only includes on-site sources. However, the CalEEMod model outputs do not separate on- and off-site emissions for mobile sources. For a worst-case scenario assessment, the emissions shown in Table 12: Localized Significance of Operational Emissions, conservatively include all on-site Project-related stationary sources and 10 percent of the Project-related new mobile sources, since a portion of mobile sources could include trucks idling on-site. Table 12 shows that the maximum daily emissions of these pollutants during operations would not result in significant concentrations of pollutants at nearby sensitive receptors. Therefore, significant impacts would not occur concerning LSTs during operational activities.

Table 12: Localized Significance of Operational Emissions				
Activity	**Pollutant (Maximum Pounds per Day)**			
	Nitrogen Oxide (NO_x)	**Carbon Monoxide (CO)**	**Coarse Particulate Matter (PM_{10})**	**Fine Particulate Matter ($PM_{2.5}$)**
On-Site and Mobile Source Emissions[1]	13.74	16.70	1.01	0.73
SCAQMD Localized Screening Threshold (5 acres at 30 meters)	*276*	*1,876*	*5*	*2*
Exceed SCAQMD Threshold?	**No**	**No**	**No**	**No**
1. Conservatively assumes 10 percent of mobile emissions are on-site. Source: CalEEMod version 2022.1 Refer to Appendix A: Air Quality Modeling Data for model outputs.				

Criteria Pollutant Health Impacts

On December 24, 2018, the California Supreme Court issued an opinion identifying the need to provide sufficient information connecting a project's air emissions to health impacts or explain why such information could not be ascertained (*Sierra Club v. County of Fresno* [Friant Ranch, L.P.] [2018] Cal.5th, Case No. S219783). The SCAQMD has set its CEQA significance thresholds based on the FCAA, which defines a major stationary source (in extreme ozone nonattainment areas such as the SCAB) as emitting 10 tons per year. The thresholds correlate with the trigger levels for the federal New Source Review (NSR) Program and SCAQMD Rule 1303 for new or modified sources. The NSR Program[2] was created by the FCAA to ensure that stationary sources of air pollution are constructed or modified in a manner that is consistent with attainment of health-based NAAQS. The NAAQS establish the levels of air quality necessary, with an adequate margin of safety, to protect the public health. Therefore, projects that do not exceed the SCAQMD's LSTs and mass emissions thresholds would not violate any air quality standards or contribute substantially to an existing or projected air quality violation and no criteria pollutant health impacts would occur.NO_X and ROG are precursor emissions that form ozone in the atmosphere in the presence of sunlight where the pollutants undergo complex chemical reactions. It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. Breathing ground-level ozone can result in health effects that include: reduced lung function, inflammation of airways, throat irritation, pain, burning, or discomfort in the chest when taking a deep breath, chest tightness, wheezing, or shortness of breath. In addition to these effects, evidence from observational studies strongly indicates that higher daily ozone concentrations are associated with increased asthma attacks, increased hospital admissions, increased daily mortality, and other markers of morbidity. The consistency and coherence of the evidence for effects upon asthmatics suggests that ozone can make asthma symptoms worse and can increase sensitivity to asthma triggers.

According the SCAQMD's 2022 AQMP, ozone, NO_X, and ROG have been decreasing in the SCAB since 1975 and are projected to continue to decrease in the future. Although vehicle miles traveled in the SCAB continue to increase, NO_X and ROG levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_X emissions from electric utilities have also decreased due to the use of cleaner fuels and renewable energy. The 2022 AQMP demonstrates how the SCAQMD's control strategy to meet the 8-hour O_3 standard in 2037. In

[2] Code of Federal Regulation (CFR) [i.e., PSD (40 CFR 52.21, 40 CFR 51.166, 40 CFR 51.165 (b)), Non-attainment NSR (40 CFR 52.24, 40 CFR 51.165, 40 CFR part 51, Appendix S)

addition, since NO_X emissions also lead to the formation of $PM_{2.5}$, the NO_X reductions needed to meet the O_3 standards will likewise lead to improvement of $PM_{2.5}$ levels and attainment of $PM_{2.5}$ standards. The SCAQMD's air quality modeling demonstrates that NO_X reductions prove to be much more effective in reducing ozone levels and will also lead to significant improvement in $PM_{2.5}$ concentrations. NO_X-emitting stationary sources regulated by the SCAQMD include Regional Clean Air Incentives Market (RECLAIM) facilities (e.g., refineries, power plants, etc.), natural gas combustion equipment (e.g., boilers, heaters, engines, burners, flares) and other combustion sources that burn wood or propane. The 2016 AQMP identifies robust NO_X reductions from new regulations on RECLAIM facilities, non-refinery flares, commercial cooking, and residential and commercial appliances. Such combustion sources are already heavily regulated with the lowest NO_X emissions levels achievable but there are opportunities to require and accelerate replacement with cleaner zero-emission alternatives, such as residential and commercial furnaces, pool heaters, and backup power equipment. The AQMD plans to achieve such replacements through a combination of regulations and incentives. Technology-forcing regulations can drive development and commercialization of clean technologies, with future year requirements for new or existing equipment. Incentives can then accelerate deployment and enhance public acceptability of new technologies.

As previously discussed, Project emissions would be less than significant and would not exceed SCAQMD thresholds (refer to Table 8 and Table 9). Localized effects of on-site Project emissions on nearby sensitive receptors were also found to be less than significant (refer to Table 11 and Table 12). The LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable CAAQS or NAAQS. The LSTs were developed by the SCAQMD based on the ambient concentrations of that pollutant for each SRA and distance to the nearest sensitive receptor. The CAAQS and NAAQS establish the levels of air quality necessary, with an adequate margin of safety, to protect public health, including protecting the health of sensitive populations. Information on health impacts related to exposure to ozone and particulate matter emissions published by the U.S. EPA and CARB have been summarized above and discussed in the Regulatory Framework section. As shown above, Project-related emissions would not exceed the regional thresholds or the LSTs, and therefore would not exceed the ambient air quality standards or cause an increase in the frequency or severity of existing violations of air quality standards. Therefore, the Project would not expose sensitive receptors to criteria pollutant levels in excess of the health-based ambient air quality standards.

Carbon Monoxide Hotspots

An analysis of CO "hot spots" is needed to determine whether the change in the level of service of an intersection resulting from the Project would have the potential to result in exceedances of the CAAQS or NAAQS. It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when vehicles are idling at intersections. Vehicle emissions standards have become increasingly stringent in the last 20 years. With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations have steadily declined. Accordingly, with the steadily decreasing CO emissions from vehicles, even very busy intersections do not result in exceedances of the CO standard.

The SCAB was re-designated as attainment for CO in 2007 and is no longer addressed in the SCAQMD's AQMP. The 2003 AQMP is the most recent version that addresses CO concentrations. As part of the

SCAQMD *CO Hotspot Analysis*, the Wilshire Boulevard/Veteran Avenue intersection, one of the most congested intersections in Southern California with an average daily traffic (ADT) volume of approximately 100,000 vehicles per day, was modeled for CO concentrations. This modeling effort identified a CO concentration high of 4.6 ppm, which is well below the 35-ppm NAAQS. The Project considered herein would not produce the volume of traffic required to generate a CO hot spot in the context of SCAQMD's *CO Hotspot Analysis*. As CO hotspots were not experienced at the Wilshire Boulevard/Veteran Avenue intersection even though it accommodates 100,000 vehicles daily, it can be reasonably inferred that CO hotspots would not be experienced at any Project area intersections resulting from 487 additional vehicle trips attributable to the Project. Therefore, impacts would be less than significant.

Mitigation Measures: No mitigation is required.

Level of Significance: Less than significant impact.

Threshold 5.4 Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Construction

Odors that could be generated by construction activities are required to follow SCAQMD Rule 402 to prevent odor nuisances on sensitive land uses. SCAQMD Rule 402, Nuisance, states:

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

Construction equipment emissions, such as diesel exhaust, and volatile organic compounds from architectural coatings and paving activities, may generate odors. However, these odors would be temporary, are not expected to affect a substantial number of people and would disperse rapidly. Therefore, Project construction activities would not result in objectionable odors that would adversely affect a substantial number of people and impacts would be less than significant.

Operations

The SCAQMD *CEQA Air Quality Handbook* identifies certain land uses as sources of odors. These land uses include agriculture (farming and livestock), wastewater treatment plants, food processing plants, chemical plants, composting facilities, refineries, landfills, dairies, and fiberglass molding. The Project would not include any of the land uses that have been identified by the SCAQMD as odor sources. Therefore, Project operations would not result in odors that would adversely affect people.

Mitigation Measures: No mitigation is required.

Level of Significance: No impact.

6 REFERENCES

1. California Air Pollution Control Officers Association (CAPCOA), *Health Effects*, 2018.
2. California Air Pollution Control Officers Association (CAPCOA), *Health Risk Assessments for Proposed Land Use Projects*, 2009.
3. California Air Resources Board, *Aerometric Data Analysis and Measurement System (ADAM) Top Four Summaries from 2016 to 2018*, 2020.
4. California Air Resources Board, *Air Quality and Land Use Handbook: A Community Health Perspective*, 2005.
5. California Air Resources Board, *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*, 2000.
6. City of Highland, *Highland General Plan*, 2012.
7. City of Highland, *Highland Municipal Code*, current through Ordinance 459, passed January 10, 2023.
8. HPA Architecture. *Highland Park Industrial Development Site Plan*, September 2022.
9. Kimley-Horn, *Traffic Study for the Meines Street and Palm Avenue Warehouse Project*, March 2023.
10. South Coast Air Quality Management District, *2016 Air Quality Management Plan,* March 2017.
11. South Coast Air Quality Management District, *2022 Air Quality Management Plan,* December 2022.
12. South Coast Air Quality Management District, *CEQA Air Quality Handbook*, 1993.
13. South Coast Air Quality Management District, *Localized Significance Threshold Methodology*, 2008.
14. South Coast Air Quality Management District, *High-Cube Warehouse Vehicle Trip Generation Analysis*, 2016.
15. South Coast Air Quality Management District, *South Coast AQMD Air Quality Significance Thresholds,* April 2019.
16. United States Environmental Protection Agency, *National Ambient Air Quality Standards Table*, 2016.
17. United States Environmental Protection Agency, *Nonattainment Areas for Criteria Pollutants*, 2019.
18. United States Environmental Protection Agency, *Policy Assessment for the Review of the Lead National Ambient Air Quality Standards*, 2013.

Appendix A

Air Quality Modeling Data

Meines St & Palm Ave Warehouse-Existing Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Meines St & Palm Ave Warehouse-Existing
Operational Year	2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	11.2
Location	34.10930844873174, -117.21037811952846
County	San Bernardino-South Coast
City	Highland
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5173
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Heavy Industry	1.68	1000sqft	0.04	1,684	0.00	—	—	—

Single Family Housing	1.00	Dwelling Unit	0.32	1,950	11,713	—	3.00	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.02	1.49	0.19	5.81	0.01	0.65	0.05	0.71	0.63	0.01	0.64	64.9	265	330	0.86	0.01	1.19	356
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.99	1.46	0.19	5.55	0.01	0.65	0.05	0.71	0.63	0.01	0.64	64.9	253	318	0.86	0.01	0.47	344
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.22	0.26	0.11	1.00	< 0.005	0.05	0.04	0.09	0.05	0.01	0.05	6.70	208	215	0.30	0.01	0.71	226
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.04	0.05	0.02	0.18	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	1.11	34.5	35.6	0.05	< 0.005	0.12	37.4

2.5. Operations Emissions by Sector, Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.08	0.78	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	173	173	0.01	0.01	0.74	176
Area	1.91	1.40	0.07	5.01	0.01	0.65	—	0.65	0.63	—	0.63	62.5	18.4	80.8	0.60	< 0.005	—	95.9
Energy	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.7	67.7	0.01	< 0.005	—	67.9
Water	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Waste	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Total	2.02	1.49	0.19	5.81	0.01	0.65	0.05	0.71	0.63	0.01	0.64	64.9	265	330	0.86	0.01	1.19	356
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.08	0.09	0.66	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	162	162	0.01	0.01	0.02	165
Area	1.89	1.38	0.07	4.88	0.01	0.65	—	0.65	0.63	—	0.63	62.5	17.9	80.4	0.60	< 0.005	—	95.5
Energy	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.7	67.7	0.01	< 0.005	—	67.9
Water	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Waste	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Total	1.99	1.46	0.19	5.55	0.01	0.65	0.05	0.71	0.63	0.01	0.64	64.9	253	318	0.86	0.01	0.47	344
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.08	0.56	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	133	133	0.01	0.01	0.26	136
Area	0.14	0.19	0.01	0.42	< 0.005	0.04	—	0.04	0.04	—	0.04	4.28	1.54	5.82	0.04	< 0.005	—	6.85
Energy	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.7	67.7	0.01	< 0.005	—	67.9
Water	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Waste	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Total	0.22	0.26	0.11	1.00	< 0.005	0.05	0.04	0.09	0.05	0.01	0.05	6.70	208	215	0.30	0.01	0.71	226

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.0	22.0	< 0.005	< 0.005	0.04	22.4
Area	0.03	0.03	< 0.005	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	0.71	0.25	0.96	0.01	< 0.005	—	1.13
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.2	11.2	< 0.005	< 0.005	—	11.2
Water	—	—	—	—	—	—	—	—	—	—	—	0.14	1.00	1.14	0.01	< 0.005	—	1.59
Waste	—	—	—	—	—	—	—	—	—	—	—	0.26	0.00	0.26	0.03	0.00	—	0.93
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07
Total	0.04	0.05	0.02	0.18	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	1.11	34.5	35.6	0.05	< 0.005	0.12	37.4

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.05	0.05	0.05	0.45	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	99.7	99.7	< 0.005	< 0.005	0.43	102
Single Family Housing	0.05	0.04	0.04	0.34	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	73.1	73.1	< 0.005	< 0.005	0.31	74.6
Total	0.10	0.09	0.08	0.78	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	173	173	0.01	0.01	0.74	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Heavy Industry	0.05	0.05	0.05	0.37	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.3	93.3	0.01	< 0.005	0.01	94.9
Single Family Housing	0.04	0.04	0.04	0.28	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	68.5	68.5	< 0.005	< 0.005	0.01	69.7
Total	0.09	0.08	0.09	0.66	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	162	162	0.01	0.01	0.02	165
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.01	0.01	0.01	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.02	11.0
Single Family Housing	0.01	0.01	0.01	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.02	11.4
Total	0.01	0.01	0.01	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.0	22.0	< 0.005	< 0.005	0.04	22.4

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4	< 0.005	< 0.005	—	23.5
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	11.1	11.1	< 0.005	< 0.005	—	11.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5	< 0.005	< 0.005	—	34.6

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4	< 0.005	< 0.005	—	23.5
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	11.1	11.1	< 0.005	< 0.005	—	11.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5	< 0.005	< 0.005	—	34.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	3.88	3.88	< 0.005	< 0.005	—	3.89
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1.84	1.84	< 0.005	< 0.005	—	1.84
Total	—	—	—	—	—	—	—	—	—	—	—	—	5.71	5.71	< 0.005	< 0.005	—	5.73

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.1	23.1	< 0.005	< 0.005	—	23.2
Single Family Housing	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.0	10.0	< 0.005	< 0.005	—	10.1
Total	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.2	33.2	< 0.005	< 0.005	—	33.3

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.1	23.1	< 0.005	< 0.005	—	23.2
Single Family Housing	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.0	10.0	< 0.005	< 0.005	—	10.1
Total	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.2	33.2	< 0.005	< 0.005	—	33.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.83	3.83	< 0.005	< 0.005	—	3.84
Single Family Housing	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.66	1.66	< 0.005	< 0.005	—	1.66
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.49	5.49	< 0.005	< 0.005	—	5.51

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.89	1.29	0.07	4.88	0.01	0.65	—	0.65	0.63	—	0.63	62.5	17.9	80.4	0.60	< 0.005	—	95.5
Consumer Products	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.45	0.45	< 0.005	< 0.005	—	0.45
Total	1.91	1.40	0.07	5.01	0.01	0.65	—	0.65	0.63	—	0.63	62.5	18.4	80.8	0.60	< 0.005	—	95.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.89	1.29	0.07	4.88	0.01	0.65	—	0.65	0.63	—	0.63	62.5	17.9	80.4	0.60	< 0.005	—	95.5
Consumer Products	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.89	1.38	0.07	4.88	0.01	0.65	—	0.65	0.63	—	0.63	62.5	17.9	80.4	0.60	< 0.005	—	95.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.02	0.02	< 0.005	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	0.71	0.20	0.91	0.01	< 0.005	—	1.08
Consumer Products	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05
Total	0.03	0.03	< 0.005	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	0.71	0.25	0.96	0.01	< 0.005	—	1.13

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	0.75	3.86	4.61	0.08	< 0.005	—	7.08
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.08	2.19	2.27	0.01	< 0.005	—	2.54
Total	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	0.75	3.86	4.61	0.08	< 0.005	—	7.08
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.08	2.19	2.27	0.01	< 0.005	—	2.54
Total	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	0.12	0.64	0.76	0.01	< 0.005	—	1.17
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.01	0.36	0.38	< 0.005	< 0.005	—	0.42
Total	—	—	—	—	—	—	—	—	—	—	—	0.14	1.00	1.14	0.01	< 0.005	—	1.59

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	1.13	0.00	1.13	0.11	0.00	—	3.94
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.47	0.00	0.47	0.05	0.00	—	1.65
Total	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	1.13	0.00	1.13	0.11	0.00	—	3.94
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.47	0.00	0.47	0.05	0.00	—	1.65
Total	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	—	0.65
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.08	0.00	0.08	0.01	0.00	—	0.27
Total	—	—	—	—	—	—	—	—	—	—	—	0.26	0.00	0.26	0.03	0.00	—	0.93

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Heavy Industry	6.62	10.8	8.57	2,736	68.6	112	88.8	28,356
Single Family Housing	9.44	9.54	8.55	3,404	81.0	81.9	73.4	29,213

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	1
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	1
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
3948.75	1,316	2,526	842	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Heavy Industry	16,062	532	0.0330	0.0040	72,220
Single Family Housing	7,610	532	0.0330	0.0040	31,290

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	389,425	0.00
Single Family Housing	41,681	229,901

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	2.09	—
Single Family Housing	0.88	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Heavy Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	4.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.46	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	54.7
AQ-DPM	45.4

Drinking Water	85.2
Lead Risk Housing	51.4
Pesticides	61.9
Toxic Releases	43.6
Traffic	54.3
Effect Indicators	—
CleanUp Sites	78.6
Groundwater	41.1
Haz Waste Facilities/Generators	84.5
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	61.5
Cardio-vascular	77.6
Low Birth Weights	92.5
Socioeconomic Factor Indicators	—
Education	65.8
Housing	35.3
Linguistic	39.8
Poverty	38.6
Unemployment	59.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	34.38983703

Employed	23.22597203
Median HI	32.7216733
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	56.16578981
Active commuting	17.15642243
Social	—
2-parent households	17.02810214
Voting	25.22776851
Neighborhood	—
Alcohol availability	50.14756833
Park access	22.89233928
Retail density	22.46888233
Supermarket access	23.17464391
Tree canopy	4.709354549
Housing	—
Homeownership	53.58655203
Housing habitability	53.77903247
Low-inc homeowner severe housing cost burden	25.38175286
Low-inc renter severe housing cost burden	49.2878224
Uncrowded housing	49.1979982
Health Outcomes	—
Insured adults	65.30219428
Arthritis	0.0

Asthma ER Admissions	25.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	6.8
Cognitively Disabled	21.0
Physically Disabled	14.3
Heart Attack ER Admissions	21.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	37.8
Elderly	60.7
English Speaking	38.4

Foreign-born	44.6
Outdoor Workers	60.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	66.9
Traffic Density	57.8
Traffic Access	23.0
Other Indices	—
Hardship	69.5
Other Decision Support	—
2016 Voting	34.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	84.0
Healthy Places Index Score for Project Location (b)	21.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Hearths	existing residence has 1 wood burning stove
Land Use	The existing land uses include steel processing facility and single-family residential land uses

Meines St & Palm Ave Warehouse-Proposed Detailed Report

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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Meines St & Palm Ave Warehouse-Proposed
Construction Start Date	10/1/2023
Operational Year	2024
Lead Agency	City of Highland
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	11.2
Location	34.10971222888604, -117.21056657432398
County	San Bernardino-South Coast
City	Highland
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5173
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

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

Unrefrigerated Warehouse-No Rail	277	1000sqft	6.36	276,917	64,146	—	—	—
Parking Lot	244	1000sqft	5.60	0.00	0.00	—	—	—
General Office Building	8.00	1000sqft	0.18	8,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.27	25.3	13.5	24.1	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,573	5,573	0.28	0.30	10.9	5,679
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.85	4.04	40.4	36.7	0.10	1.81	14.7	16.0	1.66	3.99	5.65	—	13,516	13,516	1.29	1.60	0.56	14,026
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.80	4.42	6.51	7.26	0.01	0.26	1.34	1.60	0.24	0.43	0.67	—	1,613	1,613	0.10	0.10	1.26	1,638
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.81	1.19	1.32	< 0.005	0.05	0.24	0.29	0.04	0.08	0.12	—	267	267	0.02	0.02	0.21	271

Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.27	25.3	13.5	24.1	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,573	5,573	0.28	0.30	10.9	5,679
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.85	4.04	40.4	36.7	0.10	1.81	14.7	16.0	1.66	3.99	5.65	—	13,516	13,516	1.29	1.60	0.56	14,026
2024	2.24	1.83	13.6	21.6	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,431	5,431	0.28	0.30	0.28	5,527
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	0.80	0.62	6.51	5.92	0.01	0.26	1.34	1.60	0.24	0.43	0.67	—	1,530	1,530	0.10	0.10	0.71	1,563
2024	0.73	4.42	4.56	7.26	0.01	0.19	0.53	0.72	0.17	0.13	0.30	—	1,613	1,613	0.08	0.08	1.26	1,638
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.15	0.11	1.19	1.08	< 0.005	0.05	0.24	0.29	0.04	0.08	0.12	—	253	253	0.02	0.02	0.12	259
2024	0.13	0.81	0.83	1.32	< 0.005	0.03	0.10	0.13	0.03	0.02	0.05	—	267	267	0.01	0.01	0.21	271

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.27	25.3	13.5	24.1	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,573	5,573	0.28	0.30	10.9	5,679
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.85	4.04	40.4	36.7	0.10	1.81	14.7	16.0	1.66	3.99	5.65	—	13,516	13,516	1.29	1.60	0.56	14,026
2024	2.24	1.83	13.6	21.6	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,431	5,431	0.28	0.30	0.28	5,527
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.80	0.62	6.51	5.92	0.01	0.26	1.34	1.60	0.24	0.43	0.67	—	1,530	1,530	0.10	0.10	0.71	1,563
2024	0.73	4.42	4.56	7.26	0.01	0.19	0.53	0.72	0.17	0.13	0.30	—	1,613	1,613	0.08	0.08	1.26	1,638
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.15	0.11	1.19	1.08	< 0.005	0.05	0.24	0.29	0.04	0.08	0.12	—	253	253	0.02	0.02	0.12	259
2024	0.13	0.81	0.83	1.32	< 0.005	0.03	0.10	0.13	0.03	0.02	0.05	—	267	267	0.01	0.01	0.21	271

2.4. Operations Emissions Compared Against Thresholds

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.84	8.12	16.0	21.6	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,238	19,508	28.7	2.32	49.1	20,966
Mit.	2.84	8.12	16.0	21.6	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,812	18,082	28.6	2.30	49.1	19,532
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	7%	< 0.5%	1%	—	7%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.76	8.04	16.7	19.2	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,016	19,286	28.7	2.32	1.29	20,698
Mit.	2.76	8.04	16.7	19.2	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,591	17,860	28.6	2.31	1.29	19,264
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	7%	< 0.5%	1%	—	7%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.75	8.03	16.9	19.7	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,050	19,320	28.7	2.33	21.2	20,752
Mit.	2.75	8.03	16.9	19.7	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,624	17,894	28.6	2.31	21.2	19,318
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	7%	< 0.5%	1%	—	7%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	1.47	3.08	3.59	0.03	0.06	0.55	0.61	0.06	0.12	0.17	44.7	3,154	3,199	4.76	0.39	3.51	3,436
Mit.	0.50	1.47	3.08	3.59	0.03	0.06	0.55	0.61	0.06	0.12	0.17	44.7	2,918	2,963	4.73	0.38	3.51	3,198
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	7%	< 0.5%	1%	—	7%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.67	1.54	14.5	20.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,491	15,491	1.10	1.99	49.1	16,159
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	3,317	3,317	0.30	0.02	—	3,330
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.84	8.12	16.0	21.6	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,238	19,508	28.7	2.32	49.1	20,966

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.60	1.47	15.2	18.0	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,269	15,269	1.10	1.99	1.27	15,892
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	3,317	3,317	0.30	0.02	—	3,330
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.76	8.04	16.7	19.2	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,016	19,286	28.7	2.32	1.29	20,698
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.59	1.46	15.4	18.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,303	15,303	1.10	1.99	21.2	15,946
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	3,317	3,317	0.30	0.02	—	3,330
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.75	8.03	16.9	19.7	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,050	19,320	28.7	2.33	21.2	20,752
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.27	2.81	3.36	0.03	0.04	0.55	0.59	0.04	0.12	0.15	—	2,534	2,534	0.18	0.33	3.51	2,640
Area	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.01	0.27	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	549	549	0.05	< 0.005	—	551
Water	—	—	—	—	—	—	—	—	—	—	—	20.8	71.3	92.1	2.14	0.05	—	161
Waste	—	—	—	—	—	—	—	—	—	—	—	23.9	0.00	23.9	2.39	0.00	—	83.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.50	1.47	3.08	3.59	0.03	0.06	0.55	0.61	0.06	0.12	0.17	44.7	3,154	3,199	4.76	0.39	3.51	3,436

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.67	1.54	14.5	20.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,491	15,491	1.10	1.99	49.1	16,159
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,891	1,891	0.17	< 0.005	—	1,897
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.84	8.12	16.0	21.6	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,812	18,082	28.6	2.30	49.1	19,532
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.60	1.47	15.2	18.0	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,269	15,269	1.10	1.99	1.27	15,892
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,891	1,891	0.17	< 0.005	—	1,897
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.76	8.04	16.7	19.2	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,591	17,860	28.6	2.31	1.29	19,264
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.59	1.46	15.4	18.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,303	15,303	1.10	1.99	21.2	15,946
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,891	1,891	0.17	< 0.005	—	1,897
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971

Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.75	8.03	16.9	19.7	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,624	17,894	28.6	2.31	21.2	19,318
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.27	2.81	3.36	0.03	0.04	0.55	0.59	0.04	0.12	0.15	—	2,534	2,534	0.18	0.33	3.51	2,640
Area	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.01	0.27	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	313	313	0.03	< 0.005	—	314
Water	—	—	—	—	—	—	—	—	—	—	—	20.8	71.3	92.1	2.14	0.05	—	161
Waste	—	—	—	—	—	—	—	—	—	—	—	23.9	0.00	23.9	2.39	0.00	—	83.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.50	1.47	3.08	3.59	0.03	0.06	0.55	0.61	0.06	0.12	0.17	44.7	2,918	2,963	4.73	0.38	3.51	3,198

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.39	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	11.9	11.9	—	1.81	1.81	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.12	0.97	< 0.005	0.05	—	0.05	0.05	—	0.05	—	141	141	0.01	< 0.005	—	141
Demolition	—	—	—	—	—	—	0.49	0.49	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.3	23.3	< 0.005	< 0.005	—	23.4
Demolition	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	202	202	0.01	0.01	0.02	204
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	1.34	0.20	13.0	6.99	0.06	0.12	2.56	2.69	0.12	0.70	0.82	—	9,889	9,889	1.14	1.57	0.53	10,385
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.42	8.42	< 0.005	< 0.005	0.02	8.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	0.54	0.29	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	406	406	0.05	0.06	0.37	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.41

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	67.3	67.3	0.01	0.01	0.06	70.7

3.2. Demolition (2023) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.39	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	11.9	11.9	—	1.81	1.81	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.12	0.97	< 0.005	0.05	—	0.05	0.05	—	0.05	—	141	141	0.01	< 0.005	—	141
Demolition	—	—	—	—	—	—	0.49	0.49	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.3	23.3	< 0.005	< 0.005	—	23.4
Demolition	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	202	202	0.01	0.01	0.02	204
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	1.34	0.20	13.0	6.99	0.06	0.12	2.56	2.69	0.12	0.70	0.82	—	9,889	9,889	1.14	1.57	0.53	10,385
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.42	8.42	< 0.005	< 0.005	0.02	8.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	0.54	0.29	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	406	406	0.05	0.06	0.37	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	67.3	67.3	0.01	0.01	0.06	70.7

3.3. Site Preparation (2023) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.70	3.95	39.7	35.5	0.05	1.81	—	1.81	1.66	—	1.66	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	2.18	1.94	< 0.005	0.10	—	0.10	0.09	—	0.09	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.42	0.42	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.35	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.11	1.22	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	236	236	0.01	0.01	0.03	238
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.03	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.17	2.17	< 0.005	< 0.005	< 0.005	2.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2023) - Mitigated

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

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

Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	2.18	1.94	< 0.005	0.10	—	0.10	0.09	—	0.09	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.42	0.42	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.35	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.11	1.22	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	236	236	0.01	0.01	0.03	238
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.03	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.17	2.17	< 0.005	< 0.005	< 0.005	2.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2023) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.43	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	2.04	1.72	< 0.005	0.09	—	0.09	0.08	—	0.08	—	362	362	0.01	< 0.005	—	363

Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.37	0.31	< 0.005	0.02	—	0.02	0.01	—	0.01	—	59.9	59.9	< 0.005	< 0.005	—	60.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	269	269	0.01	0.01	0.03	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.30	0.04	2.93	1.58	0.01	0.03	0.58	0.61	0.03	0.16	0.19	—	2,234	2,234	0.26	0.35	0.12	2,346
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.03	15.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.16	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	122	122	0.01	0.02	0.11	129
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.48	2.48	< 0.005	< 0.005	< 0.005	2.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	0.02	21.3

3.6. Grading (2023) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.43	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	2.04	1.72	< 0.005	0.09	—	0.09	0.08	—	0.08	—	362	362	0.01	< 0.005	—	363
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.37	0.31	< 0.005	0.02	—	0.02	0.01	—	0.01	—	59.9	59.9	< 0.005	< 0.005	—	60.1

Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	269	269	0.01	0.01	0.03	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.30	0.04	2.93	1.58	0.01	0.03	0.58	0.61	0.03	0.16	0.19	—	2,234	2,234	0.26	0.35	0.12	2,346
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.03	15.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.16	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	122	122	0.01	0.02	0.11	129
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.48	2.48	< 0.005	< 0.005	< 0.005	2.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	0.02	21.3

3.7. Building Construction (2023) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.50	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.1	75.1	< 0.005	< 0.005	—	75.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.4	12.4	< 0.005	< 0.005	—	12.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.61	0.73	8.27	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,600	1,600	0.08	0.06	0.19	1,620
Vendor	0.16	0.04	1.83	0.96	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,481	1,481	0.12	0.22	0.11	1,549
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.02	0.27	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	50.8	50.8	< 0.005	< 0.005	0.10	51.5
Vendor	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	46.3	46.3	< 0.005	0.01	0.06	48.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.41	8.41	< 0.005	< 0.005	0.02	8.53
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.67	7.67	< 0.005	< 0.005	0.01	8.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2023) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.50	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.1	75.1	< 0.005	< 0.005	—	75.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.4	12.4	< 0.005	< 0.005	—	12.5

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.61	0.73	8.27	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,600	1,600	0.08	0.06	0.19	1,620
Vendor	0.16	0.04	1.83	0.96	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,481	1,481	0.12	0.22	0.11	1,549
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.27	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	50.8	50.8	< 0.005	< 0.005	0.10	51.5
Vendor	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	46.3	46.3	< 0.005	0.01	0.06	48.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.41	8.41	< 0.005	< 0.005	0.02	8.53
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.67	7.67	< 0.005	< 0.005	0.01	8.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2024) - Unmitigated

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

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

Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.28	2.66	3.11	0.01	0.12	—	0.12	0.11	—	0.11	—	568	568	0.02	< 0.005	—	570
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.48	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.0	94.0	< 0.005	< 0.005	—	94.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.62	0.58	10.1	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,711	1,711	0.07	0.06	6.84	1,737
Vendor	0.16	0.04	1.68	0.90	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,464	1,464	0.11	0.22	4.08	1,536
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.59	0.68	7.60	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,568	1,568	0.07	0.06	0.18	1,588

Vendor	0.15	0.04	1.75	0.91	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,465	1,465	0.11	0.22	0.11	1,533
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.16	1.89	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	377	377	0.02	0.01	0.70	382
Vendor	0.04	0.01	0.42	0.22	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	347	347	0.03	0.05	0.42	363
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.34	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	62.4	62.4	< 0.005	< 0.005	0.12	63.2
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.4	57.4	< 0.005	0.01	0.07	60.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2024) - Mitigated

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

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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.28	2.66	3.11	0.01	0.12	—	0.12	0.11	—	0.11	—	568	568	0.02	< 0.005	—	570
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.48	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.0	94.0	< 0.005	< 0.005	—	94.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.62	0.58	10.1	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,711	1,711	0.07	0.06	6.84	1,737
Vendor	0.16	0.04	1.68	0.90	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,464	1,464	0.11	0.22	4.08	1,536
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.59	0.68	7.60	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,568	1,568	0.07	0.06	0.18	1,588
Vendor	0.15	0.04	1.75	0.91	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,465	1,465	0.11	0.22	0.11	1,533
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.16	1.89	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	377	377	0.02	0.01	0.70	382
Vendor	0.04	0.01	0.42	0.22	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	347	347	0.03	0.05	0.42	363
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.34	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	62.4	62.4	< 0.005	< 0.005	0.12	63.2

Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.4	57.4	< 0.005	0.01	0.07	60.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.16	1.48	< 0.005	0.06	—	0.06	0.05	—	0.05	—	224	224	0.01	< 0.005	—	224
Paving	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.0	37.0	< 0.005	< 0.005	—	37.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	216	216	0.01	0.01	0.86	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.7	29.7	< 0.005	< 0.005	0.06	30.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.92	4.92	< 0.005	< 0.005	0.01	4.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.16	1.48	< 0.005	0.06	—	0.06	0.05	—	0.05	—	224	224	0.01	< 0.005	—	224
Paving	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.0	37.0	< 0.005	< 0.005	—	37.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	216	216	0.01	0.01	0.86	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.7	29.7	< 0.005	< 0.005	0.06	30.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.92	4.92	< 0.005	< 0.005	0.01	4.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	25.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Architectural Coatings	—	3.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	—	3.34
Architectural Coatings	—	0.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.12	2.01	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	342	342	0.01	0.01	1.37	347
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	47.9	47.9	< 0.005	< 0.005	0.09	48.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.94	7.94	< 0.005	< 0.005	0.01	8.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	25.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Architectural Coatings	—	3.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	—	3.34
Architectural Coatings	—	0.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.12	2.01	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	342	342	0.01	0.01	1.37	347
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	47.9	47.9	< 0.005	< 0.005	0.09	48.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.94	7.94	< 0.005	< 0.005	0.01	8.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Unrefrige Warehouse-No Rail	1.34	0.31	13.7	7.08	0.11	0.19	1.98	2.17	0.18	0.47	0.65	—	12,649	12,649	0.99	1.91	36.8	13,279
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	1.33	1.23	0.82	13.3	0.03	0.01	1.04	1.05	0.01	0.18	0.19	—	2,842	2,842	0.10	0.08	12.2	2,880
Total	2.67	1.54	14.5	20.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,491	15,491	1.10	1.99	49.1	16,159
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.33	0.30	14.3	7.10	0.11	0.19	1.98	2.17	0.19	0.47	0.65	—	12,651	12,651	0.99	1.91	0.96	13,246
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	1.27	1.16	0.90	10.9	0.03	0.01	1.04	1.05	0.01	0.18	0.19	—	2,618	2,618	0.11	0.08	0.32	2,646
Total	2.60	1.47	15.2	18.0	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,269	15,269	1.10	1.99	1.27	15,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.24	0.06	2.64	1.29	0.02	0.04	0.36	0.40	0.03	0.09	0.12	—	2,094	2,094	0.16	0.32	2.63	2,195
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.23	0.21	0.17	2.07	< 0.005	< 0.005	0.19	0.19	< 0.005	0.03	0.04	—	439	439	0.02	0.01	0.87	445
Total	0.47	0.27	2.81	3.36	0.03	0.04	0.55	0.59	0.04	0.12	0.15	—	2,534	2,534	0.18	0.33	3.51	2,640

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.34	0.31	13.7	7.08	0.11	0.19	1.98	2.17	0.18	0.47	0.65	—	12,649	12,649	0.99	1.91	36.8	13,279
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	1.33	1.23	0.82	13.3	0.03	0.01	1.04	1.05	0.01	0.18	0.19	—	2,842	2,842	0.10	0.08	12.2	2,880
Total	2.67	1.54	14.5	20.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,491	15,491	1.10	1.99	49.1	16,159
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.33	0.30	14.3	7.10	0.11	0.19	1.98	2.17	0.19	0.47	0.65	—	12,651	12,651	0.99	1.91	0.96	13,246
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	1.27	1.16	0.90	10.9	0.03	0.01	1.04	1.05	0.01	0.18	0.19	—	2,618	2,618	0.11	0.08	0.32	2,646
Total	2.60	1.47	15.2	18.0	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,269	15,269	1.10	1.99	1.27	15,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.24	0.06	2.64	1.29	0.02	0.04	0.36	0.40	0.03	0.09	0.12	—	2,094	2,094	0.16	0.32	2.63	2,195
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.23	0.21	0.17	2.07	< 0.005	< 0.005	0.19	0.19	< 0.005	0.03	0.04	—	439	439	0.02	0.01	0.87	445
Total	0.47	0.27	2.81	3.36	0.03	0.04	0.55	0.59	0.04	0.12	0.15	—	2,534	2,534	0.18	0.33	3.51	2,640

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.12	0.01	—	1,229
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	204	204	0.02	< 0.005	—	205
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,559	1,559	0.15	0.02	—	1,568
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.12	0.01	—	1,229
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	204	204	0.02	< 0.005	—	205
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,559	1,559	0.15	0.02	—	1,568
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	202	202	0.02	< 0.005	—	203
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	33.8	33.8	< 0.005	< 0.005	—	34.0
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	22.1	22.1	< 0.005	< 0.005	—	22.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	258	258	0.02	< 0.005	—	260

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Total	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Total	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	22.1	22.1	< 0.005	< 0.005	—	22.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	22.1	22.1	< 0.005	< 0.005	—	22.2

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	0.08	1.41	1.19	0.01	0.11	—	0.11	0.11	—	0.11	—	1,687	1,687	0.15	< 0.005	—	1,692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.5
Total	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,758	1,758	0.16	< 0.005	—	1,762
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	0.08	1.41	1.19	0.01	0.11	—	0.11	0.11	—	0.11	—	1,687	1,687	0.15	< 0.005	—	1,692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.5
Total	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,758	1,758	0.16	< 0.005	—	1,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	279	279	0.02	< 0.005	—	280
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Total	0.03	0.01	0.27	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	291	291	0.03	< 0.005	—	292

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	0.08	1.41	1.19	0.01	0.11	—	0.11	0.11	—	0.11	—	1,687	1,687	0.15	< 0.005	—	1,692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.5
Total	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,758	1,758	0.16	< 0.005	—	1,762
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	0.16	0.08	1.41	1.19	0.01	0.11	—	0.11	0.11	—	0.11	—	1,687	1,687	0.15	< 0.005	—	1,692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.5
Total	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,758	1,758	0.16	< 0.005	—	1,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	279	279	0.02	< 0.005	—	280
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Total	0.03	0.01	0.27	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	291	291	0.03	< 0.005	—	292

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.3.1. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	123	422	544	12.6	0.30	—	950

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.72	9.25	12.0	0.28	0.01	—	21.0
Total	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	123	422	544	12.6	0.30	—	950
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.72	9.25	12.0	0.28	0.01	—	21.0
Total	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	20.3	69.8	90.1	2.09	0.05	—	157
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.45	1.53	1.98	0.05	< 0.005	—	3.47
Total	—	—	—	—	—	—	—	—	—	—	—	20.8	71.3	92.1	2.14	0.05	—	161

4.4.1. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	123	422	544	12.6	0.30	—	950
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.72	9.25	12.0	0.28	0.01	—	21.0
Total	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	123	422	544	12.6	0.30	—	950
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.72	9.25	12.0	0.28	0.01	—	21.0
Total	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	20.3	69.8	90.1	2.09	0.05	—	157
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.45	1.53	1.98	0.05	< 0.005	—	3.47
Total	—	—	—	—	—	—	—	—	—	—	—	20.8	71.3	92.1	2.14	0.05	—	161

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	0.00	140	14.0	0.00	—	491
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.01	0.00	4.01	0.40	0.00	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	0.00	140	14.0	0.00	—	491
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.01	0.00	4.01	0.40	0.00	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	—	—	—	—	—	—	—	—	—	—	—	23.2	0.00	23.2	2.32	0.00	—	81.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.66	0.00	0.66	0.07	0.00	—	2.32
Total	—	—	—	—	—	—	—	—	—	—	—	23.9	0.00	23.9	2.39	0.00	—	83.6

4.5.1. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	0.00	140	14.0	0.00	—	491

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.01	0.00	4.01	0.40	0.00	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	0.00	140	14.0	0.00	—	491
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.01	0.00	4.01	0.40	0.00	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	23.2	0.00	23.2	2.32	0.00	—	81.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.66	0.00	0.66	0.07	0.00	—	2.32
Total	—	—	—	—	—	—	—	—	—	—	—	23.9	0.00	23.9	2.39	0.00	—	83.6

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

4.6.2. Mitigated

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

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

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2023	10/22/2023	5.00	15.0	—
Site Preparation	Site Preparation	10/23/2023	11/19/2023	5.00	20.0	—
Grading	Grading	11/20/2023	12/15/2023	5.00	20.0	—
Building Construction	Building Construction	12/16/2023	4/30/2024	5.00	97.0	—
Paving	Paving	5/1/2024	7/15/2024	5.00	54.0	—
Architectural Coating	Architectural Coating	7/16/2024	9/30/2024	5.00	55.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT

Demolition	Hauling	138	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	31.3	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	119	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	46.7	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.8	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	138	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	31.3	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	119	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	46.7	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.8	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	427,376	142,459	12,519

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	8,297	—
Site Preparation	—	—	30.0	0.00	—
Grading	—	5,000	75.0	0.00	—
Paving	0.00	0.00	0.00	0.00	5.60

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	5.60	100%
General Office Building	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	349	0.03	< 0.005
2024	0.00	349	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	131	131	131	47,815	4,349	4,349	4,349	1,587,458
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	356	356	356	129,940	3,845	3,845	3,845	1,403,520

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	131	131	131	47,815	4,349	4,349	4,349	1,587,458
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	356	356	356	129,940	3,845	3,845	3,845	1,403,520

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	427,376	142,459	12,519

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value

Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	1,278,997	349	0.0330	0.0040	5,264,380
Parking Lot	213,649	349	0.0330	0.0040	0.00
General Office Building	139,615	349	0.0330	0.0040	219,520

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	5,264,380
Parking Lot	0.00	349	0.0330	0.0040	0.00
General Office Building	139,615	349	0.0330	0.0040	219,520

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	64,037,056	1,030,129
Parking Lot	0.00	0.00
General Office Building	1,421,870	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	64,037,056	1,030,129
Parking Lot	0.00	0.00
General Office Building	1,421,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	260	—
Parking Lot	0.00	—
General Office Building	7.44	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	260	—
Parking Lot	0.00	—
General Office Building	7.44	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	4.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.46	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	54.7
AQ-DPM	45.4
Drinking Water	85.2
Lead Risk Housing	51.4
Pesticides	61.9
Toxic Releases	43.6
Traffic	54.3
Effect Indicators	—
CleanUp Sites	78.6
Groundwater	41.1
Haz Waste Facilities/Generators	84.5
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	61.5
Cardio-vascular	77.6
Low Birth Weights	92.5
Socioeconomic Factor Indicators	—
Education	65.8
Housing	35.3
Linguistic	39.8
Poverty	38.6

Unemployment	59.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	34.38983703
Employed	23.22597203
Median HI	32.7216733
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	56.16578981
Active commuting	17.15642243
Social	—
2-parent households	17.02810214
Voting	25.22776851
Neighborhood	—
Alcohol availability	50.14756833
Park access	22.89233928
Retail density	22.46888233
Supermarket access	23.17464391
Tree canopy	4.709354549
Housing	—
Homeownership	53.58655203

Housing habitability	53.77903247
Low-inc homeowner severe housing cost burden	25.38175286
Low-inc renter severe housing cost burden	49.2878224
Uncrowded housing	49.1979982
Health Outcomes	—
Insured adults	65.30219428
Arthritis	0.0
Asthma ER Admissions	25.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	6.8
Cognitively Disabled	21.0
Physically Disabled	14.3
Heart Attack ER Admissions	21.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0

No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	37.8
Elderly	60.7
English Speaking	38.4
Foreign-born	44.6
Outdoor Workers	60.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	66.9
Traffic Density	57.8
Traffic Access	23.0
Other Indices	—
Hardship	69.5
Other Decision Support	—
2016 Voting	34.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	84.0
Healthy Places Index Score for Project Location (b)	21.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Per project construction schedule
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip rates per traffic study Trip length for truck and passenger cars has been modified for warehouse Trip percentage for truck and passenger cars has been modified for warehouse
Construction: Dust From Material Movement	Per project site info 5,000 cubic yard for off-site improvement activity
Operations: Fleet Mix	Truck fleet mix under the warehouse land use Passenger car fleet mix under the general office building land use
Operations: Refrigerants	Warehouse is unrefrigerated and has no cold storage
Operations: Architectural Coatings	SCAQMD Rule 1113

Health Risk Assessment
Meines Street and Palm Avenue Warehouse
Highland, California

Kimley»Horn
Expect More. Experience Better.

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APPENDIX

Appendix A: Modeling Data

LIST OF ABBREVIATED TERMS

A	absorption factor from inhalation
ACES	Advanced Collaborative Emissions Study
ASF	age sensitivity factor
AB	Assembly Bill
APN	Assessor's Parcel Number
APS	auxiliary power system
AT	averaging time
AQMP	Air Quality Management Plan
ATCM	Airborne Toxic Control Measure
CARB	California Air Resources Board
CCAA	California Clean Air Act
CEQA	California Environmental Quality Act
CPF	cancer potency factor
C_{air}	air concentration from model
C_i	air concentration of substance
DBR	daily breathing rate
DOORS	Diesel Off-Road Reporting System
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
Dose-air	dose through inhalation
du/ac	dwelling units per acre
EMFAC	Emissions Factors Model
ED	exposure duration
EF	exposure frequency
°F	degrees Fahrenheit
FCAA	Federal Clean Air Act
FAH	fraction of time spent at home
GSP	gross state product
GVWR	gross vehicle weight rating
HAP	hazardous air pollutant
HI	Hazard Index
HRA	health risk assessment
kg	kilogram
L	liter
MATES	Multiple Air Toxics Exposure Study
MICR	Maximum Individual Cancer Risk
mg	milligrams
$\mu g/m^3$	micrograms per cubic meter
MSAT	Mobile Source Air Toxic
NAAQS	National Ambient Air Quality Standards
NED	National Elevation Dataset
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NO_2	nitrogen dioxide
NO_X	nitrogen oxides

LIST OF ABBREVIATED TERMS (CONTINUED)

O_3	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PM	particulate matter
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
PERP	Portable Equipment Registration Program
REL	Reference Exposure Level
REL_i	Reference Exposure Level of substance
$Risk_{inh\text{-}res}$	residential inhalation cancer risk
SB	Senate Bill
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
T-BACT	toxics best available control technology
TAC	Toxic Air Contaminant
U.S. EPA	United States Environmental Protection Agency
VMT	vehicle miles traveled
VOC	volatile organic compound

1 INTRODUCTION

The purpose of this Health Risk Assessment (HRA) is to evaluate potential health risks associated with Diesel Particulate Matter (DPM) resulting from the implementation of the Meines Street and Palm Avenue Warehouse Project ("Project" or "proposed Project") in the City of Highland. This HRA was prepared in accordance with the requirements of the Office of Environmental Health Hazard Assessment (OEHHA) Air Toxics Hot Spots Program Risk Assessment Guidance Manual for Preparation of Health Risk Assessments (February 2015) to determine if health risks are likely to occur from the Project. Technical data are included as Appendix A: Modeling Data.

1.1 Project Location

The proposed Project is located at the northwest corner of Meines Street and Palm Avenue in the City of Highland, California (City). The proposed site consists of 14 parcels (APN 1192-601-05, -09, and -43; 1192-621-02 through -08, and -20 through -23) on 12.8 acres. Currently, the site is used for industrial and non-conforming single-family residential uses. The Project site is relatively flat and has elevations ranging from approximately 1,175 to 1,193 feet above mean sea level (amsl). The site's topographic slightly slopes down to the west.

The Project site is bounded by the City Creek stormwater channel to the north, Palm Avenue to the east, Meines Street to the south, and an industrial lot to the west. In addition, the proposed Project is located approximately 1.2-mile northeast of the San Bernardino International Airport (SBIA).

Local access to the Project site is provided via Meines Street and Palm Avenue. The nearest major freeways to the site include Interstate 210 (I-210), located approximately 0.55-mile to the east and Interstate 10 (I-10), located approximately 2.86 miles to the south of the site; refer to Exhibit 1: Regional Vicinity Map and Exhibit 2: Site Vicinity Map.

1.2 Project Description

The Project proposes the development of single new industrial concrete tilt-up dock high warehouse building totaling 284,917 square feet, including 5,000 square feet of office space and 3,000 feet of mezzanine space. The structure will be supported by a screened truck yard, vehicular parking areas, tractor-trailer storage stalls, drive aisles, and landscaped areas. On-site improvements will include storm drains, stormwater/water quality treatment facilities (including underground infiltration chambers), sewer (including a private lift station), water, and dry utility systems. Additionally, minor onsite slopes and deepened building panels will be utilized. Vehicular access to the Project site will be provided by two new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site. The Project provides a total of 240 parking spaces that includes 47 trailer stalls, 159 standard auto stalls, and 34 compact auto stalls. Refer to Exhibit 3: Site Plan for further Project details.

The Project would increase onsite impermeable areas as a result of the construction of a 284,917-SF warehouse building and parking areas. However, the Project would also create a storm drain connection to the existing channel near the northwest corner of the Project site.

Project Phasing

The Project is anticipated to be developed in one phase. Construction activity is anticipated to occur over a duration of approximately 10 months, beginning in October 2023.

General Plan Land Use and Zoning Designations

As designated by the City's Development Code, the Project site has a General Plan land use designation of Industrial (I) and a Zoning designation of Industrial (I). As such, the Project is anticipated to be consistent with the existing land use and zoning.

Site Access

Local access to the Project site is provided via Meines Street, which traverses the south of the site in a west-east direction, Palm Avenue that traverses east of the site in a north-south direction. Regional access to the Project site is via the W 5th Street off-ramp from I-210. The Project would include two (2) new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The Project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site.

Walls and Fences

The Project would include the following walls and fences on-site:

- An 8-foot-high metal fence would be located along the northwestern, northeastern, and western boundaries of the Project site;
- A 10-foot-high screen wall would run along the northern property line and would also surround the truck trailer parking and loading dock area in the northern portion of the site; and
- Two 8-foot-high metal gates would border the western and eastern boundaries of the truck loading area in the northern portion of the site.

Parking

The Project proposes to provide a total of 240 parking spaces that include 159 standard parking stalls (9 feet by 19 feet), 34 compact auto stalls (9 feet by 14 feet), and 47 trailer parking stalls (10 feet by 53 feet). Trailer stalls would be positioned along the northern Project boundary to the north of the loading dock area. The proposed auto standard parking stalls would be provided along the northeast, east, and west portions of the site.

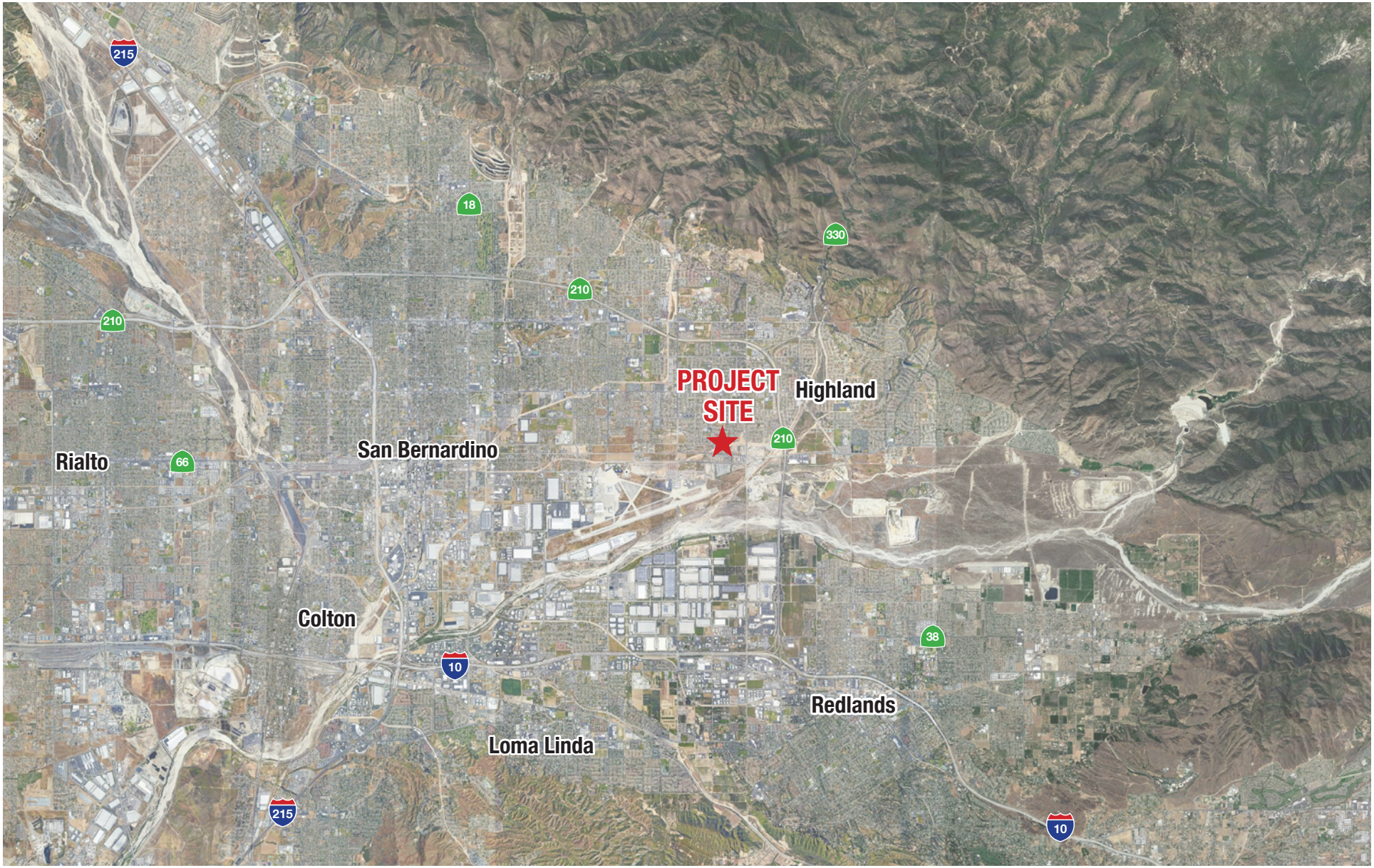

EXHIBIT 1: Regional Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

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EXHIBIT 2: Site Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

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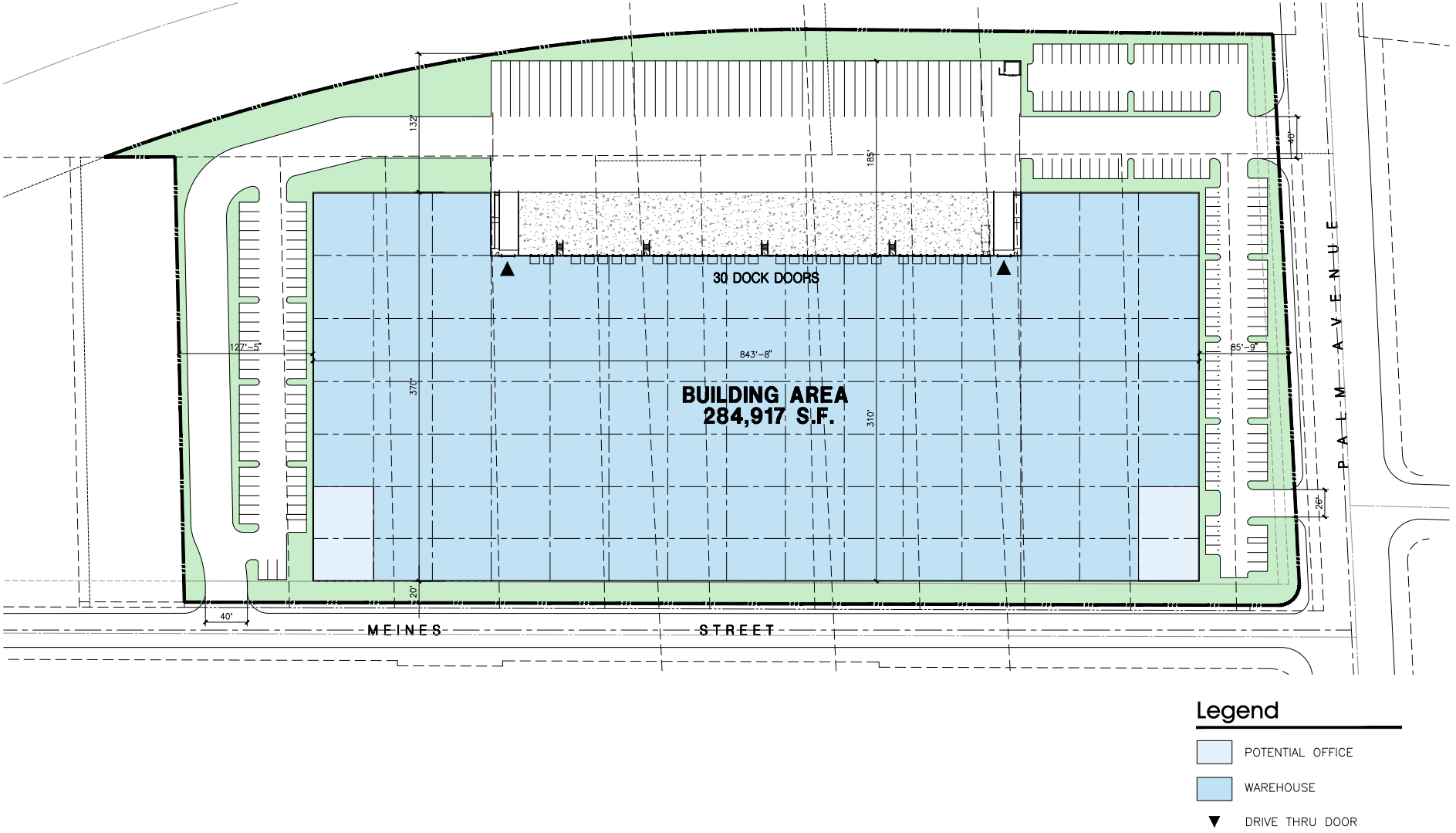

EXHIBIT 3: Site Plan

Meines Street and Palm Avenue Warehouse Project

City of Highland

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2 ENVIRONMENTAL SETTING

2.1 Climate

The general region lies in the semi-permanent high-pressure zone of the eastern Pacific. The climate is mild and tempered by cool sea breezes. The usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds. The extent and severity of the air pollution problem in the South Coast Air Basin (SCAB) is a function of the area's natural physical characteristics (weather and topography), as well as man-made influences (development patterns and lifestyle). Factors such as wind, sunlight, temperature, humidity, rainfall, and topography all affect the accumulation and/or dispersion of pollutants throughout the SCAB. These factors along with applicable regulations are discussed below.

The average annual temperature varies little throughout the SCAB, averaging 75 degrees Fahrenheit (°F). However, with a less-pronounced oceanic influence, the eastern inland portions of the SCAB show greater variability in annual minimum and maximum temperatures. All portions of the SCAB have had recorded temperatures over 100°F in recent years.

2.2 Meteorology

Although the SCAB has a semi-arid climate, the air near the surface is moist due to the presence of a shallow marine layer. Except for infrequent periods when dry, continental air is brought into the SCAB by offshore winds, the ocean effect is dominant. Periods with heavy fog are frequent, and low stratus clouds, occasionally referred to as "high fog," are a characteristic climate feature. Annual average relative humidity is 70 percent at the coast and 57 percent in the eastern part of the SCAB. Precipitation in the SCAB is typically nine to 14 inches annually and is rarely in the form of snow or hail due to typically warm weather. The frequency and amount of rainfall is greater in the coastal areas of the SCAB.

A temperature inversion is defined as an increase in temperature with height, or to the layer within which such an increase occurs. The height of the inversion is important in determining pollutant concentration. When the inversion is approximately 2,500 feet above sea level, the sea breezes carry the pollutants inland to escape over the mountain slopes or through the passes. At a height of 1,200 feet, the terrain prevents the pollutants from entering the upper atmosphere, resulting in a settlement in the foothill communities. Below 1,200 feet, the inversion puts a tight lid on pollutants, concentrating them in a shallow layer over the entire SCAB. Usually, inversions are lower before sunrise than during the day. Mixing heights for inversions are lower in the summer and more persistent, being partly responsible for the high levels of ozone (O_3) observed during summer months in the SCAB. Smog in Southern California is generally the result of these temperature inversions combining with coastal day winds and local mountains to contain the pollutants for long periods of time, allowing them to form secondary pollutants by reacting with sunlight. The SCAB has a limited ability to disperse these pollutants due to typically low wind speeds.

The area in which the project site is located offers clear skies and sunshine, yet is still susceptible to air inversions. These inversions trap a layer of stagnant air near the ground, where it is then further loaded with pollutants. These inversions cause haziness, which is caused by moisture, suspended dust, and a variety of chemical aerosols emitted by trucks, automobiles, furnaces, and other sources.

2.3 Toxic Air Contaminants

Toxic Air Contaminants (TACs) are airborne substances capable of causing short-term (acute) and long-term (chronic or carcinogenic, i.e., cancer causing) adverse human health effects (i.e., injury or illness). TACs include both organic and inorganic chemical substances. They may be emitted from a variety of

common sources including gasoline stations, automobiles, dry cleaners, industrial operations, and painting operations. The current California list of TACs includes approximately 200 compounds, including particulate emissions from diesel-fueled engines.

Hazardous Air Pollutants (HAP) is a term used by the Federal Clean Air Act (FCAA) that includes a variety of pollutants generated or emitted by industrial production activities. Identified as TACs under the California Clean Air Act (CCAA), ten have been singled out through ambient air quality data as being the most substantial health risk in California. Direct exposure to these pollutants has been shown to cause cancer, birth defects, damage to the brain and nervous system, and respiratory disorders. The California Air Resources Board (CARB) provides emission inventories for only the larger air basins.

TACs do not have ambient air quality standards because no safe levels of TACs can be determined. Instead, TAC impacts are evaluated by calculating the health risks associated with a given exposure. The requirements of the Air Toxic "Hot Spots" Information and Assessment Act (Assembly Bill [AB] 2588) apply to facilities that use, produce, or emit toxic chemicals. Facilities subject to the toxic emission inventory requirements of the act must prepare and submit toxic emission inventory plans and reports, and periodically update those reports.

Toxic contaminants often result from fugitive emissions during fuel storage and transfer activities, and from leaking valves and pipes. For example, the electronics industry, including semiconductor manufacturing, uses highly toxic chlorinated solvents in semiconductor production processes. Sources of air toxics go beyond industry, however. Automobile exhaust also contains toxic air pollutants such as benzene and 1,3-butadiene. Diesel particulate matter (DPM) is emitted from both mobile and stationary sources. In California, on-road diesel-fueled engines contribute approximately 24 percent of the statewide total DPM, with an additional 71 percent attributed to other mobile sources such as construction and mining equipment, agricultural equipment, and transport refrigeration units. Stationary sources contribute about 5 percent of total DPM. It should be noted that CARB has developed several plans and programs to reduce diesel emissions such as the Diesel Risk Reduction Plan (DRRP), the statewide Portable Equipment Registration Program (PERP), and the Diesel Off-Road Reporting System (DOORS). The PERP and DOORS programs allow owners or operators of portable engines and certain other types of equipment can register their units in order to operate their equipment throughout California without having to obtain individual permits from local air districts.

Diesel exhaust and many individual substances contained in it (including arsenic, benzene, formaldehyde, and nickel) have the potential to contribute to mutations in cells that can lead to cancer. Long-term exposure to diesel exhaust particles poses the highest cancer risk of any TAC evaluated by OEHHA. CARB estimates that about 70 percent of the cancer risk that the average Californian faces from breathing toxic air pollutants stems from diesel exhaust particles.

In its comprehensive assessment of diesel exhaust, OEHHA analyzed more than 30 studies of people who worked around diesel equipment, including truck drivers, railroad workers, and equipment operators. The studies showed these workers were more likely to develop lung cancer than workers not exposed to diesel emissions. These studies provide strong evidence that long-term occupational exposure to diesel exhaust increases the risk of lung cancer. Using information from OEHHA's assessment, CARB estimates that diesel particle levels measured in California's air in 2000 could cause 540 "excess" cancers in a population of 1 million people over a 70-year lifetime. Other researchers and scientific organizations, including the National Institute for Occupational Safety and Health, have calculated cancer risks from diesel exhaust similar to those developed by OEHHA and CARB.

Exposure to diesel exhaust can have immediate health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. In studies with human volunteers, diesel exhaust particles made people with allergies more susceptible to the materials to which they are allergic, such as dust and pollen. Exposure to diesel exhaust also causes inflammation in the lungs, which may aggravate chronic respiratory symptoms and increase the frequency or intensity of asthma attacks.

The elderly and people with emphysema, asthma, and chronic heart and lung disease are especially sensitive to fine-particle pollution. Numerous studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems. Because children's lungs and respiratory systems are still developing, they are also more susceptible than healthy adults to fine particles. Exposure to fine particles is associated with increased frequency of childhood illnesses and can also reduce lung function in children. In California, diesel exhaust particles have been identified as a carcinogen.

2.4 Sensitive Receptors

Sensitive populations are more susceptible to the effects of air pollution than is the general population. Sensitive receptors that are in proximity to localized sources of TACs are of particular concern. Land uses considered sensitive receptors include residences, schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. Sensitive land uses nearest to the Project site are shown in Table 1: Sensitive Receptors.

Table 1: Sensitive Receptors

Receptor Description	Distance and Direction from the Project
Single-Family Residences	97 feet to the south
Single-Family Residences	240 feet to the north
Single-Family Residences	290 feet to the northeast
Single-Family Residences	310 feet to the southwest
Highland Community Park	370 feet to the northwest
Single-Family Residences	818 feet to the west
Cypress Elementary School	1,960 feet to the northwest

Source: Google Earth, 2023.

3 REGULATORY SETTING

3.1 Federal

Federal Clean Air Act

The FCAA was amended in 1990 to address the numerous air pollutants that are known to cause or may reasonably be anticipated to cause adverse effects to human health or adverse environmental effects. 188 specific pollutants and chemical groups were initially identified as HAPs, and the list has been modified over time. The FCAA Amendments included new regulatory programs to control acid deposition and for the issuance of stationary source operating permits.

In 2001, the United States Environmental Protection Agency (U.S. EPA) issued its first Mobile Source Air Toxics Rule, which identified 21 mobile source air toxic (MSAT) compounds as being HAPs that required regulation. A subset of six of these MSAT compounds were identified as having the greatest influence on health and included benzene, 1,3-butadiene, formaldehyde, acrolein, acetaldehyde, and DPM. More recently, the U.S. EPA issued a second MSAT Rule in February 2007, which generally supported the findings in the first rule and provided additional recommendations of compounds having the greatest impact on health. The rule also identified several engine emission certification standards that must be implemented. Unlike the criteria pollutants, toxics do not have National Ambient Air Quality Standards (NAAQS) making evaluation of their impacts more subjective.

National Emissions Standards for Hazardous Air Pollutants (NESHAPs) were incorporated into a greatly expanded program for controlling toxic air pollutants. The provisions for attainment and maintenance of the NAAQS were substantially modified and expanded. Other revisions included provisions regarding stratospheric ozone protection, increased enforcement authority, and expanded research programs.

Section 112 of the FCAA Amendments governs the federal control program for HAPs. NESHAPs are issued to limit the release of specified HAPs from specific industrial sectors. These standards are technology-based, meaning that they represent the best available control technology an industrial sector could afford. The level of emissions controls required by NESHAPs are not based on health risk considerations because allowable releases and resulting concentrations have not been determined to be safe for the general public. The FCAA does not establish air quality standards for HAPs that define legally acceptable concentrations of these pollutants in ambient air.

Emission Standards for Off-Road Diesel Engines

To reduce emissions from off-road diesel equipment, the U.S. EPA established a series of cleaner emission standards for new off-road diesel engines. Tier 1 standards were phased in from 1996 to 2000 (year of manufacture), depending on the engine horsepower category. Tier 2 standards were phased in from 2001 to 2006. Tier 3 standards were phased in from 2006 to 2008. Tier 4 standards, which generally require add-on emission control equipment to attain them, were phased in from 2008 to 2015.

Federal Emissions Standards for On-Road Trucks

To reduce emissions from on-road, heavy-duty diesel trucks, the U.S. EPA established a series of increasingly strict emission standards for new engines, starting in 1988. The U.S. EPA promulgated the final and cleanest standards with the 2007 Heavy-Duty Highway Rule.[1] The PM emission standard of 0.01

[1] United States Environmental Protection Agency (U.S. EPA), *Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*, Final Rule. 40 Code of Federal Regulations, Parts 69, 80, and 86. January 18, 2001.

gram per horsepower-hour (g/hp-hr) is required for new vehicles beginning with model year 2007. Also, the NO_X and nonmethane hydrocarbon (NMHC) standards of 0.20 g/hp-hr and 0.14 g/hp-hr, respectively, were phased in together between 2007 and 2010 on a percent of sales basis: 50 percent from 2007 to 2009 and 100 percent in 2010.

3.2 State of California

California Air Resources Board

CARB's statewide comprehensive air toxics program was established in 1983 with AB 1807 the Toxic Air Contaminant Identification and Control Act (Tanner Air Toxics Act of 1983). AB 1807 created California's program to reduce exposure to air toxics and sets forth a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an airborne toxics control measure (ATCM) for sources that emit designated TACs. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology (T-BACT) to minimize emissions.

CARB also administers the State's mobile source emissions control program and oversees air quality programs established by State statute, such as AB 2588. Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High priority facilities are required to perform a health risk assessment and, if specific thresholds are exceeded, required to communicate the results to the public in the form of notices and public meetings. In September 1992, the AB 2588 was amended by Senate Bill (SB) 1731 which required facilities that pose a significant health risk to the community to reduce their risk through a risk management plan.

Diesel Risk Reduction Plan

The identification of DPM as a TAC in 1998 led CARB to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles (DRRP) in October 2000. The DRRP's goals include an 85 percent reduction in DPM by 2020 from the 2000 baseline.[2] CARB estimates that emissions of DPM in 2035 will be less than half those in 2010, further reducing statewide cancer risk and non-cancer health effects.[3] The DRRP includes regulations to establish cleaner new diesel engines, cleaner in-use diesel engines (retrofits), and cleaner diesel fuel.

Truck and Bus Regulation Reducing Emissions from Existing Diesel Vehicles

On December 12, 2008, CARB approved the Truck and Bus Regulation to significantly reduce particulate matter (PM) and oxides of nitrogen (NO_X) emissions from existing diesel vehicles operating in California. The regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Heavier trucks must be retrofitted with PM filters beginning January 1, 2012, and older trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses are required to have 2010 model year engines or equivalent.

The regulation applies to most privately and federally-owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds. Small fleets with three or fewer diesel trucks can delay compliance for heavier trucks and there

[2] California Air Resources Board, *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*, October 2000.

[3] California Air Resources Board, *Overview: Diesel Exhaust & Health*, available at: https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health, accessed April 2023.

are several extensions for low-mileage construction trucks, early PM filter retrofits, adding cleaner vehicles, and other situations. Privately and publicly owned school buses have different requirements.

Heavy-Duty Vehicle Idling Emission Reduction Program

The purpose of the CARB ATCM to Limit Diesel-Fueled Commercial Motor Vehicle Idling is to reduce public exposure to diesel particulate matter and criteria pollutants by limiting the idling of diesel-fueled commercial vehicles. The driver of any vehicle subject to this ATCM is prohibited from idling the vehicle's primary diesel engine for greater than five minutes at any location and is prohibited from idling a diesel-fueled auxiliary power system (APS) for more than five minutes to power a heater, air conditioner, or any ancillary equipment on the vehicle if it has a sleeper berth and the truck is located within 100 feet of a restricted area (homes and schools).

CARB Final Regulation Order, Requirements to Reduce Idling Emissions from New and In-Use Trucks, beginning in 2008, requires that new 2008 and subsequent model-year heavy-duty diesel engines be equipped with an engine shutdown system that automatically shuts down the engine after 300 seconds of continuous idling operation once the vehicle is stopped, the transmission is set to "neutral" or "park", and the parking brake is engaged.

CalEnviroScreen

OEHHA has developed CalEnviroScreen 4.0, which is a mapping tool that helps identify California communities that are most affected by many sources of pollution, and where people are often especially vulnerable to pollution's effects. CalEnviroScreen uses environmental, health, and socioeconomic information to produce scores for every census tract in the State. The scores are mapped so that different communities can be compared. An area with a high score is one that experiences a much higher pollution burden than areas with low scores.

According to CalEnviroScreen, the Project site and the surrounding residences are located within Census Tract 6071007604, which is within the 84th percentile.[4] It should be noted that the CalEnviroScreen scores are not an expression of health risk, and do not provide quantitative information on increases in cumulative impacts for specific sites or projects. Further, as a comparative screening tool, the results do not provide a basis for determining when differences between scores are significant in relation to public health or the environment.

3.3 Regional

South Coast Air Quality Management District

The CCAA provides the SCAQMD with the authority to manage transportation activities at indirect sources and regulate stationary source emissions. Indirect sources of pollution are generated when minor sources collectively emit a substantial amount of pollution. An example of this would be the motor vehicles at an intersection, a mall, and on highways. As a State agency, CARB regulates motor vehicles and fuels for their emissions.

Air Toxics Control Plan

The Air Toxics Control Plan (March 2000, revised March 26, 2004) is a planning document designed to examine the overall direction of the SCAQMD's air toxics control program. It includes development and

[4] California Office of Health Hazard Assessment, *CalEnviroScreen 4.0*, https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40, accessed April 2023.

implementation of strategic initiatives to monitor and control air toxics emissions. Control strategies that are deemed viable and are within the SCAQMD's jurisdiction will each be brought to the SCAQMD Board for further consideration through the normal public review process. Strategies that are to be implemented by other agencies will be developed in a cooperative effort, and the progress will be reported back to the Board periodically.

Multiple Air Toxics Exposure Study

The SCAQMD conducted an in-depth analysis of the toxic air contaminants and their resulting health risks for all of Southern California. The Multiple Air Toxics Exposure Study in the SCAB (MATES V) (August 2021) shows that carcinogenic risk from air toxics in the SCAB, based on the average concentrations at the 10 monitoring sites, is approximately 40 percent lower than the monitored average in MATES IV and 84 percent lower than the average in MATES II.

MATES V is the most comprehensive dataset documenting the ambient air toxic levels and health risks associated with the SCAB emissions. Therefore, MATES V study represents the baseline health risk for a cumulative analysis. MATES V estimates the average excess cancer risk level from exposure to TACs is 424 in one million basin wide. In comparison, the MATES IV basin average risk was 897 per million. These model estimates were based on monitoring data collected at ten fixed sites within the SCAB. The Project site is approximately 15.9 miles east of the Fontana monitoring site. MATES V has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. MATES V modeling predicted an excess cancer risk of 365 in one million for the Project area.[5] DPM is included in this cancer risk along with all other TAC sources. DPM accounts for 68.8 percent of the total risk shown in MATES V in this area.

[5] South Coast Air Quality Management District, *MATES V Estimated Risk*, https://experience.arcgis.com/experience/79d3b6304912414bb21ebdde80100b23/page/Main-Page/?data_id=dataSource_105-a5ba9580e3aa43508a793fac819a5a4d%3A455&print_preview=true&views=Click-tabs-for-other-data%2CCancer-Risk, accessed April 2023.

4 SIGNIFICANCE CRITERIA AND METHODOLOGY

4.1 Health Risk Analysis Thresholds

Project health risks are determined by examining the types and levels of air toxics generated and the associated impacts on factors that affect air quality. While the final determination of significance thresholds is within the purview of the lead agency pursuant to the State CEQA Guidelines, the SCAQMD recommends that the following air pollution thresholds be used by lead agencies in determining whether the impacts from a project are significant. If the lead agency finds that a project has the potential to exceed the air pollution thresholds, the project should be considered significant. The thresholds for air toxic emissions are as follows.

- **Cancer Risk:** Emit contaminants that equal or exceed the maximum individual cancer risk of 10 in one million.
- **Non-Cancer Risk:** Emit contaminants that equal or exceed the maximum hazard index of 1.0.

Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of 10 persons per million as the maximum acceptable incremental cancer risk due to DPM exposure. This threshold serves to determine whether or not a given project has a potentially significant development-specific incremental impact. The 10 in one million standard is a health-protective significance threshold. A risk level of 10 in one million implies a likelihood that up to 10 persons, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants (i.e., DPM) over a specified duration of time. This risk would be an excess cancer that is in addition to any cancer risk borne by a person not exposed to these air toxics. To put this risk in perspective, the risk of dying from accidental drowning is 1,000 in a million which is 100 times more than the SCAQMD's threshold of 10 in one million.

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Noncarcinogenic risks are quantified by calculating a "hazard index" (HI), expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index of less than 1.0 means that adverse health effects are not expected. Within this analysis, non-carcinogenic exposures of less than 1.0 are considered less than significant.

4.2 Methodology

This HRA evaluates potential health risks to off-site sensitive associated with the emission of diesel particulate matter resulting from the Project construction and operations. Construction equipment and associated heavy-duty truck traffic generate diesel exhaust, which is a known TAC. Diesel exhaust from construction equipment operating at the site and operational diesel trucks poses a health risk to nearby sensitive receptors.

Construction Sources

Construction would generate DPM emissions from the use of off-road diesel equipment required for demolition, grading and excavation, paving, and other construction activities. For construction activity, DPM is the primary toxic air contaminant of concern because it is the most potent TAC emitted from construction and includes hundreds of chemicals. Although DPM is a subset of PM_{10} exhaust, the analysis conservatively assumes all PM_{10} exhaust emissions are DPM. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment were included in the analysis, although they are typically less of a concern because they would not stay on the site for long durations.

Diesel exhaust from construction equipment operating at the site potentially poses a health risk to nearby sensitive receptors. The sensitive land uses nearest to the Project site consist of single-family residences located to the north, east, and west.

Health-related risks associated with diesel-exhaust emissions are primarily linked to long-term exposure and the associated risk of contracting cancer. The use of diesel-powered construction equipment would be episodic and would occur throughout the project site. Construction activities would limit idling to no more than five minutes, which would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Furthermore, even during the most intense period of construction, emissions of DPM would be generated from different locations on the Project site rather than in a single location because different types of construction activities (e.g., site preparation and building construction) would not occur at the same place at the same time. Construction emissions rates for PM_{10} (DPM) were calculated from the CalEEMod construction emissions modeling conducted for the Project's Air Quality Assessment.

Operations

Mobile Sources. The Project is located near existing residential uses. Due to the increased truck traffic from the Project, the resulting emissions could result in pollutant concentrations at existing sensitive receptors. An emission rate for PM_{10} (DPM) was calculated using trip data and a CARB 2021 EMissions FACtors model (EMFAC)[6] model run for San Bernardino County; refer to Appendix A. EMFAC generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of vehicle speed and type. The model was run for heavy-duty diesel vehicles traveling along off-site roads, circulating the Project site, and idling at proposed loading docks. The analysis includes onsite idling and truck traffic on the following roadways and vehicle speeds are:

- Palm Avenue (45 miles per hour)
- West 5th Street (45 miles per hour)
- Meines Street (45 miles per hour)
- On-Site Circulation (15 miles per hour)
- On-Site Idling (idle)

Truck traffic on surrounding roadways are based on the truck trip generation and distribution from the *Traffic Study for the Meines Street and Palm Avenue Warehouse Project* (Kimley-Horn, March 2023) (Project Traffic Study). Additionally, idling emissions assumed 15 minutes of idling[7] for each truck. The emissions rates were calculated using 2024 emissions factors since project construction would be completed in towards the end of 2024; refer to Appendix A. This approach is conservative as it assumes no cleaner technology in future years.

Off-Road Equipment. Operational off-road emissions would be generated by off-road equipment used during operational activities. For this Project it was assumed that the Project would employ 6 forklifts based on surveys conducted for the *SCAQMD High Cube Warehouse Truck Trip Study White Paper.* This

[6] California Air Resources Board, *EMFAC 2021 Web Database,* www.arb.ca.gov/emfac. Accessed April 2023.

[7] An idling time of 15 minutes per truck has been used per SCAQMD recommendations. Although the Project is required to comply with CARB's idling limit of 5 minutes, the SCAQMD recommends the on-site idling emissions should be estimated for 15 minutes of truck idling, which would take into account on-site idling that occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.

paper found that on average, warehouses would employ 0.12 pallet jacks and forklifts per thousand square feet of warehouse area. However, because this number includes unpowered pallet jacks which do not generate emissions, the number of forklifts was estimated to be 0.02 forklifts per thousand square feet of warehouse area. It is also assumed that 1 diesel-powered yard truck would be included in Project operations.

Emergency Backup Generators. As the Project warehouse is speculative, it is unknown whether emergency backup generators would be used. Backup generators would only be used in the event of a power failure and would not be part of the Project's normal daily operations. Nonetheless, emissions associated with this equipment were included to be conservative. If backup generators are required, the end user would be required to obtain a permit from the SCAQMD prior to installation. Emergency backup generators must meet SCAQMD's Best Available Control Technology (BACT) requirements and comply with SCAQMD Rule 1470 (Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines), which would minimize emissions.

Dispersion Modeling

The air dispersion modeling for the HRA was performed using the U.S. EPA AERMOD dispersion model. AERMOD is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the stack heights of the emission sources (not a factor in this case). AERMOD requires hourly meteorological data consisting of wind vector, wind speed, temperature, stability class, and mixing height. Surface and upper air meteorological data are provided by the SCAQMD. Surface and upper air meteorological data from the Redlands Monitoring Station was selected as being the most representative for meteorology based on proximity to the project site.

The emission sources in the model are line volume sources (comprised of smaller adjacent volume sources) for construction and trucks operations. Construction line volume sources were assigned a release height of 12 feet (3.6 meters). Operational sources include the loading dock idling areas, on-site truck circulation, and off-site truck routes. Heavy duty operational vehicle emissions were assigned a release height of 12 feet (3.6 meters), a plume height of 20.4 feet (6.2 meters). A release height of 12 feet is the average stack height for trucks and the plume height is based on U.S. EPA guidance for vehicle volume sources. Backup generators were modeled as point sources and were included for each proposed building. Point sources were assigned a release height of 5 meters.

AERMOD was run to obtain the annual average (period) concentration in micrograms per cubic meter ($\mu g/m^3$) of PM_{10} at off-site sensitive receptors. Unitized emission rates were used for source groups on AERMOD. According to the SCAQMD's Supplemental Guidelines for Preparing Risk Assessments for AB 2588, air dispersion modeling is required to estimate annual average concentrations to calculate the Maximally Exposed Individual Resident (MEIR), the maximum chronic HI, the zones of impact, and excess cancer burden. To achieve these goals, a receptor grid was placed over the nearby receptors to cover the zone of impact. According to the SCAQMD, in order "to identify the maximum impacted receptors (i.e., peak cancer risk and peak hazard indices), a grid spacing of 100 meters or less must be used" (see page 16 of SCAQMD's Supplemental Guidelines). Grid spacing of 50 meters was used for off-site receptors. In addition, National Elevation Dataset (NED) terrain data was imported into AERMOD for the Project. The modeling and analysis was prepared in accordance with the SCAQMD Modeling Guidance for AERMOD[8].

[8] South Coast Air Quality Management District, *SCAQMD Modeling Guidance for AERMOD*, http://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance, February 2023.

Note that the concentration estimate developed using this methodology is conservative and is not a specific prediction of the actual concentrations that would occur at the project site any one point in time. Actual 1-hour and annual average concentrations are dependent on numerous variables, particularly the number and type of equipment working at specific distances during time periods of adverse meteorology.

Risk and Hazard Assessment

Cancer Risk. Based on the OEHHA methodology, residential inhalation cancer risk from annual average DPM concentrations are calculated by multiplying the daily inhalation dose, cancer potency factor, age sensitivity factor (ASF), frequency of time spent at home, and exposure duration divided by averaging time, yielding the excess cancer risk. These factors are discussed in more detail below. Exposure through inhalation (Dose-air) is a function of breathing rate, exposure frequency, and concentration of substance in the air. To estimate cancer risk, the dose was estimated by applying the following formula to each ground-level concentration:

$$\text{Dose-air} = C_{air}*(BR/BW)*A*EF*10^{-6}$$

Dose-air =	dose through inhalation (mg/kg/day)
C_{air} =	air concentration ($\mu g/m^3$) from air dispersion model
(DBR/BW) =	daily breathing rate normalized to body weight (L/kg bodyweight-day)
A =	inhalation absorption factor (unitless)
EF =	exposure frequency (approximately 350 days per year for residential)
10^{-6} =	conversion factor (micrograms to milligrams, liters to cubic meters)

OEHHA developed ASFs to consider the increased sensitivity to carcinogens during early-life exposure. Fraction of time at home (FAH) during the day is used to adjust exposure duration and cancer risk from a specific facility's emissions, based on the assumption that exposure to the facility's emissions are not occurring away from home. The factors used in the health risk assessment are shown in Table 2: Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates.

Table 2: Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates

Age	Exposure Frequency (days/year)	Exposure Duration (years)	Age Sensitivity Factor[1] (ASF)	Fraction of Time at Home (FAH)	Daily Breathing Rate (L/kg BW-day[2])
Residents					
Third trimester	350	0.25	10	100%	361
0 to 2 years	350	2	10	100%	1,090
Ages 2 through 8 years	350	7	3	100%	861
Ages 9 through 15	350	7	3	100%	745
Ages 16 and greater	350	14	1	73%	335
Workers[3]	250	25	1	N/A	230
Students[3]	180	9	3	N/A	640

1. Accounts for potential increased sensitivity to carcinogens during childhood.
2. 95th percentile daily breathing rate normalized to body weight (L/kg body weight - day).
3. Worker and Student breathing rates are 95th percentile 8-hour breathing rates based on moderate intensity activity.

Source: California Office of Environmental Health Hazard Assessment, *Air Toxics Program Guidance Manual for the Preparation of Health Risk Assessments*, February 2015.

To estimate the cancer risk, the dose is multiplied by the cancer potency factor, the ASF, the exposure duration divided by averaging time, and the frequency of time spent at home (for residents only):

$$Risk_{inh\text{-}res} = (Dose_{air}*CPF*ASF*(ED/AT)*FAH)$$

$Risk_{inh\text{-}res}$ = residential inhalation cancer risk (potential chances per million)

$Dose_{air}$ = daily dose through inhalation (mg/kg-day)

CPF = inhalation cancer potency factor ($mg/kg\text{-}day^{-1}$)

ASF = age sensitivity factor for a specified age group (unitless)

ED = exposure duration (years)

AT = averaging time of lifetime cancer risk (years)

FAH = fraction of time spent at home (unitless)

Chronic Non-Cancer Hazard. Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. According to OEHHA, the REL for DPM is 5 and the target organ is the respiratory system. The following equation was used to determine the non-cancer risk:

$$Hazard\ Index = C_i/REL_i$$

C_i = concentration in the air of substance i (annual average concentration in $\mu g/m^3$)

REL_i = chronic noncancer Reference Exposure Level for substance ($\mu g/m^3$)

Health Risk Computation. A health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 30-year exposure scenario using the approach described in the OEHHA *Air Toxics Program Guidance Manual for the Preparation of Health Risk Assessments* (February 2015) and the daily breathing rates, age sensitivity factors, exposure duration, and fraction of time at home specified in the SCAQMD, Permit Application Package "N" Risk Assessment Procedures for Rules 1401, 1401.1, and 212 Version 8.1 (refer Table 2). Health risks were analyzed at the point of maximum impact and are a conservative estimate. The pollutant concentrations are then used to estimate the long-term cancer health risk to an individual as well as the non-cancer chronic health index.

The off-site impacts would occur from the diesel trucks accessing the proposed Project. The cancer and chronic health risks are based on the annual average concentration of PM_{10} (used as a proxy for DPM). The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the U.S. EPA *Human Health Evaluation Manual* (1991) and the OEHHA Guidance Manual (2015).

5 POTENTIAL HEALTH RISK IMPACTS

CARB identified DPM as a TAC in 1998. Mobile sources (including trucks, buses, automobiles, trains, ships, and farm equipment) are by far the largest source of diesel emissions. The exhaust from diesel engines includes hundreds of different gaseous and particulate components, many of which are toxic. Diesel exhaust is composed of two phases, either gas or particulate – both contribute to the risk. The gas phase is composed of many of the urban TACs, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde, and polycyclic aromatic hydrocarbons. The particulate phase has many different types that can be classified by size or composition. The sizes of diesel particulates of greatest health concern are fine and ultrafine particles. These particles may be composed of elemental carbon with adsorbed compounds such as organics, sulfates, nitrates, metals, and other trace elements. Diesel exhaust is emitted from a broad range of on- and off-road diesel engines. As the Project involves construction and operations near existing residences, an analysis of DPM was performed using the U.S. EPA-approved AERMOD model.

5.1 Construction Risk

Construction-related activities would result in project-generated emissions of DPM from the exhaust of off-road, heavy-duty diesel equipment for site preparation (e.g., clearing, grading); paving; application of architectural coatings; on-road truck travel; and other miscellaneous activities. For construction activity, DPM is the primary toxic air contaminant of concern because it is the most potent TAC emitted from construction. Although DPM is a subset of PM_{10} exhaust, the analysis conservatively assumes all PM_{10} exhaust emissions are DPM. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations. Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors. Unitized emissions were input into AERMOD using variable emissions rates, calculating emissions for five days a week and eight hours per day. PM_{10} construction emissions rates in grams per second were calculated from the total annual on-site exhaust emissions reported in CalEEMod. Annual emissions in tons per year were converted to grams per second and then multiplied by concentrations calculated by AERMOD.

Risk levels were calculated based on the California Office of Environmental Health Hazard Assessment (OEHHA) guidance document, *Air Toxics Hot Spots Program Risk Assessment Guidelines* (February 2015). The surrounding land uses are a mix of residential, retail, and industrial. Using AERMOD, the residential locations with the highest emission concentrations were identified. Results of this assessment are summarized in Table 3: Combined Risk Assessment, which shows that construction risk levels would not exceed SCAQMD thresholds for residential receptors without mitigation.

5.2 Operational Risk

Operational vehicle DPM emissions were estimated using emission factors for course particulate matter less than 10 microns in diameter (PM_{10}) generated with the EMFAC developed by CARB. EMFAC is a mathematical model that was developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by CARB to project changes in future emissions from on-road mobile sources. EMFAC, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day. The model includes the emissions benefits of the truck and bus rule and the previously adopted rules for other on-road diesel equipment. Based on OEHHA *Risk Assessment Guidelines*, the exposure duration for a resident is 30 years, beginning with the third trimester; the exposure duration for workers is 25 years.

Operations would commence following construction. As such, construction would not overlap with operations. The analysis calculates risk based on exposure to construction concentrations during the initial nine months of the exposure duration and operational concentrations for the remainder of the exposure duration. Combined construction and operations would result in a maximum cancer risk of 46.21 in one million, which would exceed the SCAQMD threshold of 10 in one million; refer to Table 3. Therefore, mitigation would be required. Mitigation measure HRA-1 requires that off-road cargo handling equipment (e.g., forklifts and yard trucks) used during operational activities would be electrically powered/zero emission. With implementation of mitigation measure HRA-1, maximum combined cancer risk would be reduced to 3.24 in one million, which would not exceed the SCAQMD threshold of 10 in a million. Therefore, impacts associated with carcinogenic risk would be less than significant with mitigation incorporated.

Table 3: Combined Risk Assessment

Exposure Scenario	Unmitigated Construction Cancer Risk (Risk per Million)[1, 2]	Unmitigated Operational Cancer Risk (Risk per Million)[1, 2]	Unmitigated Combined Cancer Risk (Risk per Million)[1, 2]	Mitigated Combined Cancer Risk (Risk per Million) [1, 2, 3]	Significance Threshold (Risk per Million)	Exceeds Significance Threshold?
Residence located at 27140 W 5th Street, south of the Project Site	2.61	43.59	46.21	2.91	10	No
Residence located at 27136 W 5th Street, south of the Project Site	2.97	38.89	41.85	3.24	10	No

1. Refer to Appendix A: Modeling Data.
2. The reported risk is at the closest receptor (maximally exposed individual resident (MEIR)). The maximum cancer risk is based on worst-case exposure and combines all three phases over the entire construction period and uses 95th percentile breathing rates.
3. MM HRA-1 requires electrically powered/zero emission cargo handling equipment.

5.3 Non-Carcinogenic Hazards

The significance thresholds for DPM exposure also require an evaluation of non-cancer risk known as hazard index. Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. According to OEHHA, the REL for DPM is 5 and the target organ is the respiratory system. RELs are designed to protect sensitive receptors.

Chronic impacts are shown in Table 4: Chronic Hazard Assessment Results. A chronic hazard index of 1.0 is considered individually significant. The hazard index is calculated by dividing the chronic exposure by the reference exposure level. The highest maximum chronic hazard index at off-site receptors during construction and mitigated operations would be 0.002 and 0.0001, respectively. Therefore, non-carcinogenic hazards are within acceptable limits and impacts are less than significant.

Table 4: Chronic Hazard Assessment Results			
Exposure Scenario	**Construction Concentration ($\mu g/m^3$) [1, 2]**	**Operational Concentration ($\mu g/m^3$) [1, 2, 3]**	**Exceeds Significance Threshold? [4]**
Residence located at 27140 W 5th Street, south of the Project Site	0.002	0.0001	No
Residence located at 27136 W 5th Street, south of the Project Site	0.002	0.0001	No

1. Refer to Appendix A: Modeling Data.
2. The reported risk is at the closest receptor (maximally exposed individual resident (MEIR)). The maximum cancer risk is based on worst-case exposure and uses 95th percentile breathing rates.
3. MM HRA-1 requires electrically powered/zero emission cargo handling equipment.
4. Chronic hazard less than 1.0 would be less than significant.

5.4 Conclusion

As described above, impacts related to cancer risk would be less than significant. Additionally, non-carcinogenic hazards are calculated to be within acceptable limits. It should be noted that the impacts assess the Project's incremental contribution to health risk impacts, consistent with the SCAQMD guidance and methodology. The SCAQMD has not established separate cumulative thresholds and does not require combining impacts from cumulative projects. The SCAQMD considers projects that do not exceed the project-specific thresholds to generally not be cumulatively significant.[9] Therefore, impacts related to health risk from the Project would be less than significant.

Mitigation Measures:

MM HRA-1 Only electric-powered off-road equipment (e.g., yard trucks/hostlers, forklifts, indoor material handling equipment, etc.) shall be utilized onsite for daily warehouse and business operations. The Project developer/facility owner shall disclose this requirement to all tenants/business entities prior to the signing of any lease agreement. In addition, the limitation to use only electric-powered off-road equipment shall be included in all leasing agreements.

Prior to issuance of a Business License for a new tenant/business entity, the Project developer/facility owner and tenant/business entity shall provide to the City of Highland Planning Department and Business License Department a signed document (verification document) noting that the Project development/facility owner has disclosed to the tenant/business entity the requirement to use only electric-powered equipment for daily operations. This verification document shall be signed by authorized agents for the Project developer/facility owner and tenant/business entities. In addition, if applicable, the tenant/business entity shall provide documentation (e.g., purchase or rental agreement) to the City of Highland Planning Department and Business License Department to verify, to the City's satisfaction, that any off-road equipment utilized will be electric-powered.

Level of Significance: Less than significant impact with mitigation incorporated.

[9] South Coast Air Quality Management District, *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution*, August 2003.

6 REFERENCES

1. California Air Pollution Control Officers Association, *Health Risk Assessment for Proposed Land Use Projects*, July 2009.
2. California Air Resources Board, *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*, October 2000.
3. California Office of Environmental Health Hazard Assessment, *Air Toxics Hot Spots Program Risk Assessment Guidelines*, August 2003.
4. California Office of Environmental Health Hazard Assessment, *Air Toxics Hot Spots Program Risk Assessment Guidance Manual for Preparation of Health Risk Assessments*, February 2015.
5. California Office of Environmental Health Hazard Assessment, *CalEnviroScreen 4.0*, https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40, accessed April 2023.
6. Health Effects Institute, *Advanced Collaborative Emissions Study (ACES): Lifetime Cancer and Non-Cancer Assessment in Rats Exposed to New-Technology Diesel Exhaust*, January 2015.
7. Kimley-Horn, *Traffic Study for the Meines Street and Palm Avenue Warehouse Project*, March 2023.
8. Lakes Environmental, *AERMOD View Gaussian Plume Air Dispersion Model*, Version 11.2.0.
9. Ralph Propper, et al., *Ambient and Emission Trends of Toxic Air Contaminants in California*, Environmental Science and Technology, September 2015.
10. South Coast Air Quality Management District, *Air Toxics Control Plan for the Next Ten Years*, March 2000.
11. South Coast Air Quality Management District, Addendum to the *Air Toxics Control Plan*, March 2004.
12. South Coast Air Quality Management District, *SCAQMD Meteorological Data for AERMOD,* www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/aermod-table-1, accessed April 2023.
13. South Coast Air Quality Management District, *Multiple Air Toxics Exposure Study (MATES V)*, August 2021.
14. South Coast Air Quality Management District, *SCAQMD Modeling Guidance for AERMOD*, http://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance, accessed April 2023.
15. South Coast Air Quality Management District, *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution*, August 2003.
16. United States Environmental Protection Agency, *Exposure Factors Handbook: 2011 Edition*, September 2011.
17. United States Environmental Protection Agency (U.S. EPA), *Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*, Final Rule. 40 Code of Federal Regulations, Parts 69, 80, and 86. January 18, 2001.

Appendix A

Modeling Data

CONSTRUCTION

Construction Duration (days)			
2023	2024		Total
55	196		251

Construction

	PM10 Exhaust Onsite [Group: P1ONSITE]			
Year	Tons/Year	g/s	Weighted Average On-Site Rate	
2023	0.046154009	0.026433	9.94E-03	SLINE1
2024	3.31E-02	0.005315		

Group: OFFSITE

	Trips		Miles		Weighted
	Vendor	Hauling	Vendor	Hauling	Trip length
2023	0	2075	10.2	20	20.00
2024	4062.716978	0	10.2	20	10.20

	PM10 Exhaust Off-Site			
	Tons/Year	g/s	g/s per mile	Weighted Average Off-Site Rate
2023	1.03E-03	0.000593	2.96361E-05	1.77E-05
2024	9.08E-04	0.000146	1.43E-05	

Group: OFFSITE	Speed	Length (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)	
Palm Ave n/o W 5th	45	251	0.16	1.77E-05	2.75E-06	SLINE2
W 5th e/o Palm	45	886	0.55	1.77E-05	9.72E-06	SLINE3
					1.25E-05	

	Plume Width (m)	Segment Length (m)	Source Area (m2)	AERMOD Unitized Emissions Rate (g/s)	
Palm Ave n/o W 5th	22	251	5522	0.220756376	SLINE2
W 5th e/o Palm	22	886	19492	0.779243624	SLINE3
			25014	1	

	On-Site Construction Emissions			Off-Site Construction Emissions		
			tons/yr			tons/yr
	Year	Phase	Exhaust PM10	Year	Phase	Exhaust PM10
	2023	Demo	0.00900132	2023	Demo	0.00091492
	2023	Site Prep	0.01805075	2023	Site Prep	-
	2023	Grading	0.01594319	2023	Grading	-
	2023	Building Const	0.00315875	2023	Building Construc	0.00012001
	2023					
	2023	Total	0.04615401		Total	0.00103493
	2024	Building Const	0.02151046	2024	Building Construc	0.00090759
	2024	Paving	0.01070315	2024	Paving	-
	2024	Coating	0.00086047	2024	Coating	-
	2024	Total	0.03307408		Total	0.00090759

OPERATIONS

	Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)	
Group: ONRUN									
SLINE4	Onsite Drive Aisle	15	131	0.01468	272.1	0.17	3.25E-01	3.76E-06	SLINE4
								3.76E-06	
Group: OFFSITE									
SLINE5	Palm Avenue btwn project and 5th St - 100%	45	131	0.01092	227.1	0.14	2.02E-01	2.34E-06	
SLINE6	5th St e/o Palm Ave - 100%	45	131	0.01092	907.1	0.56	8.06E-01	9.33E-06	
SLINE7	Meines	45	131	0.01092	314.5	0.20	2.80E-01	3.24E-06	
								1.49E-05	

Plume Width (m)	Segment Length (m)	Source Area (m2)	AERMOD Unitized Emissions Rate (g/s)	
22	227.1	4996.2	0.177817165	SLINE5
22	907.1	19956.2	0.710250771	SLINE6
10	314.5	3145	0.111932065	SLINE7
Total Area (m^2)		28097.4	1	

Group: IDL	Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Idling Emission Rate (g/sec)	AERMOD Unitized Emissions Rate (g/s)	
SLINE8	Building Idle	Idle	66	0.001849085	0.25	3.03E-02	3.50E-07	1	SLINE8

Group: EQ	Offroad Equipment	Forklift (PM_{10}) (g/sec)	Hostler (PM_{10}) (g/sec)	Total Emission Rate (g/sec)	AERMOD Unitized Emissions Rate (g/s)
SLINE9	Offroad Equipment	2.35E-03	4.71E-04	2.82E-03	1

Group: GE	Generators	# of Generators	Emission factor (tons/yr)	Emission factor (g/sec)	AERMOD Unitized Emissions Rate (g/s)
POINT1	Generator	1	0.006200	0.00018	1.0000

	Total Daily Truck Trips	
2-axle	22	0.17
3-axle	30	0.23
4+axle	79	0.60
Total	131	

Unitized emission rates (1 g/s) were used for source groups in AERMOD.
Truck routes were composed of several street segments, thus the emission rate for each segment needed to sum to 1.0.
The emission rate for each segment was based on the area of the segment (segment length x segment width) divided by the total area of the route (sum of each segment's area).

Model Output: OFFROAD2021 (v1.0.4) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2024
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Y	Vehicle Category	Model Year	Horsepow	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumptio	Total_Activ	Total_Population	Horsepower_Hours_hhpy
San Bernardino (SC)	2024	Industrial - Forklifts	Aggregate	100	Diesel	0.003691871	0.004467164	0.005316294	0.055354126	0.042126644	8.050593	0.00240919	0.002216	7.45111E-05	6.58757E-05	261859.8017	306065.9	392.7312337	25228131.43

		g/hph								
	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2024	0.048457089	0.058633077	0.069778208	0.726542151	0.552926852	105.66684	0.031621514	0.0290918	0.000977984	0.000864641	3437000.979

Project Forklifts				1								
HP		89										
Hours per Day		12										
Days per Year		365										
1 pound =		453.5924	grams									
Emissions Source		ROG	NOX	CO	SO2	PM10	PM2.5			CO2	metric tons/yr	PM10 tons/yr
	1	0.14	1.30	1.71	0.00	0.0745	0.07			249	41	0.0136

Based on emission rates obtained from CARB OFFROAD Version 1.0.3.
Number of forklifts per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

Model Output: OFFROAD2021 (v1.0.4) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2024
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Y	Vehicle Category	Model Year	Horsepower B	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	Total_Activ	Total_Population	Horsepower_Hours_hhpy
San Bernardino (SC	2024	Airport Ground Support - Cargo Loader	Aggregate	Aggregate	Diesel	0.000158452	0.000191727	0.000228172	0.004046	0.002014	0.739081	6.95878E-05	6.40207E-05	6.84587E-06	6.04769E-06	24039.90735	11834.64	24.90847719	1386254.847
San Bernardino (SC	2024	Airport Ground Support - Cargo Tractor	Aggregate	Aggregate	Diesel	0.000287907	0.000348368	0.000414586	0.003175	0.002928	0.603046	0.000170194	0.000156579	5.58106E-06	4.93455E-06	19615.12589	11119.6	16.51685118	1046741.26
San Bernardino (SC	2024	Airport Ground Support - Misc - Cargo Tractor	Aggregate	Aggregate	Gasoline	0.005974018	0.005494902	0.006574043	0.563984	0.029808	6.741773	0.000470053	0.000355151	5.56608E-05	0.000101399	289445	56180.8	41.58	5337176

g/hph

	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2024	0.037848778	0.045797022	0.054502241	0.9665239	0.4809983	176.54063	0.016622091	0.015292323	0.001635239	0.001444581	5742296.562
	0.091077031	0.110203207	0.131150924	1.004413	0.9262787	190.76852	0.053839533	0.04953237	0.001765522	0.001561004	6205083.964
	0.370638836	0.340913601	0.40786543	34.990597	1.8493619	418.27173	0.029162907	0.022034196	0.003453293	0.006291002	17957688.48

	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2024	0.942755427	1.140734066	1.357567814	24.074639	11.980935	4397.3582	0.414030966	0.380908489	0.040731323	0.035982323	143031862.9
	1.504305764	1.820209975	2.166200301	16.589741	15.299207	3150.8953	0.889259548	0.818118784	0.029160872	0.025782874	102488448.4
	15.4111628	14.17518755	16.95904458	1454.909	76.896468	17391.739	1.212593677	0.916181889	0.143587941	0.261579862	746680686.9
	17.85822399	17.13613159	20.4828127	1495.5734	104.17661	24939.992	2.515884191	2.115209163	0.213480135	0.323345059	992200998.2
	0.215145513	0.206446163	0.246765034	18.0178	1.2550593	300.46254	0.030309912	0.025482812	0.002571885	0.003895474	11953461.52

Project Yard Trucks 1

HP 190
Hours per Day 12
Days per Year 365
1 pound = 453.5924 grams

Emissions Source		ROG	NOX	CO	SO2	PM10	PM2.5	CO2	MT/yr	PM10 tons/yr
	1	0.61	3.72	53.34	0.01	0.09	0.08	889.50	183.01	0.016

Based on aggregated emission rates obtained from CARB OFFROAD Version 1.0.4
Number of yard trucks/hostlers per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

Emergency Backup Generator Emissions

UNMITIGATED

	Fuel Type	Quantity	HP	LF	Hours/Year per Unit	Hours per Day	HP-hr per day	Total hp-hr per year
Standard Generator	Diesel	1	750	0.74	50	1	750	37,500

Emissions Rates (g/hp-hr)

	HC	ROG	TOG	CO	NO_X	CO_2	PM_{10}	$PM_{2.5}$	PM	SO_X	CH_4
Standard Warehouse	0.140	1.020	1.120	2.600	2.850	521.640	0.150	0.150	0.150	0.005	0.021

Source: User Guide for CalEEMod Version 2022.1, Appendix G, Table G-40.

Emissions (pounds/day)

	HC	ROG	TOG	CO	NO_X	CO_2	PM_{10}	$PM_{2.5}$	PM	SO_X	CH_4
Standard Warehouse	0.23	1.69	1.85	4.30	4.71	862.51	0.25	0.25	0.25	0.01	0.00
Total	0.23	1.69	1.85	4.30	4.71	862.51	0.25	0.25	0.25	0.01	0.00

Emissions (tons/year)

	HC	ROG	TOG	CO	NO_X	CO_2	PM_{10}	$PM_{2.5}$	PM	SO_X	CH_4
Standard Warehouse	0.01	0.04	0.05	0.11	0.12	21.56	0.006	0.01	0.01	0.00	0.00
Total	0.01	0.04	0.05	0.11	0.12	21.56	0.006	0.01	0.01	0.00	0.00

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

	Project Mix	Idle (g/trip)	15 mph (g/mi)	45 mph (g/mi)	50 mph (g/mi)	55 mph (g/mi)	65 mph (g/mi)
HHDT	0.60	0.002176877	0.008792873	0.012003243	0.015260651	0.019466658	0.030011
LHDT2	0.17	0.001280451	0.033971591	0.013343322	0.011907865	0.011344745	0.012738
MHDT	0.23	0.001402899	0.016016486	0.006298676	0.007233431	0.008728165	0.011858
Weighted Rates	1.00	0.001849085	0.014675622	0.010921905	0.012859293	0.015643475	0.022953

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	PM10_IDLEX	
San Bernardino (SC)	2024	HHDT	Aggregate	Aggregate	Gasoline	5.565987525	200.7100937	111.3642784	0	0
San Bernardino (SC)	2024	HHDT	Aggregate	Aggregate	Diesel	14231.95658	1766161.303	214453.6698	0.033230689	472.9377237
San Bernardino (SC)	2024	HHDT	Aggregate	Aggregate	Electricity	48.62871821	4853.771805	623.9730499	0	0
San Bernardino (SC)	2024	HHDT	Aggregate	Aggregate	Natural Gas	2469.470738	160346.0479	14202.53174	0.010698415	26.41942156
San Bernardino (SC)	2024	LHDT2	Aggregate	Aggregate	Gasoline	2883.702401	102543.2335	42962.86906	0	0
San Bernardino (SC)	2024	LHDT2	Aggregate	Aggregate	Diesel	4825.532255	186665.6444	60699.12524	0.027554577	132.9654999
San Bernardino (SC)	2024	LHDT2	Aggregate	Aggregate	Electricity	13.65084178	961.9374735	180.6957961	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	Aggregate	Gasoline	1460.602089	78395.7093	29223.7266	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	Aggregate	Diesel	14946.4736	650565.6856	183244.348	0.019924612	297.8026823
San Bernardino (SC)	2024	MHDT	Aggregate	Aggregate	Electricity	46.13645649	2344.169726	591.8184755	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	Aggregate	Natural Gas	195.6757264	9502.554663	1810.47792	0.018595911	3.638768311

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	PM10_RUNEX	
San Bernardino (SC)	2024	HHDT	Aggregate	15	Gasoline	0.13382381	0.010304669	0.00137901
San Bernardino (SC)	2024	HHDT	Aggregate	15	Diesel	745.720957	0.009344453	6.968354289
San Bernardino (SC)	2024	HHDT	Aggregate	15	Electricity	2.141926262	0	0
San Bernardino (SC)	2024	HHDT	Aggregate	15	Natural Gas	95.43676874	0.004678177	0.446470051
San Bernardino (SC)	2024	LHDT2	Aggregate	15	Gasoline	125.4486088	0.001984008	0.248891032
San Bernardino (SC)	2024	LHDT2	Aggregate	15	Diesel	147.2675212	0.061422367	9.045519676
San Bernardino (SC)	2024	LHDT2	Aggregate	15	Electricity	0.877495106	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	15	Gasoline	231.3375275	0.002921026	0.675742984
San Bernardino (SC)	2024	MHDT	Aggregate	15	Diesel	1973.800575	0.017785807	35.10563574
San Bernardino (SC)	2024	MHDT	Aggregate	15	Electricity	6.968659988	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	15	Natural Gas	26.17126438	0.002597113	0.067969742
San Bernardino (SC)	2024	HHDT	Aggregate	45	Gasoline	13.29975927	0.003553592	0.047261921
San Bernardino (SC)	2024	HHDT	Aggregate	45	Diesel	83750.43514	0.01324642	1109.393444
San Bernardino (SC)	2024	HHDT	Aggregate	45	Electricity	234.2654523	0	0
San Bernardino (SC)	2024	HHDT	Aggregate	45	Natural Gas	9797.572547	0.001674942	16.41036418
San Bernardino (SC)	2024	LHDT2	Aggregate	45	Gasoline	8292.72837	0.000770831	6.392295186
San Bernardino (SC)	2024	LHDT2	Aggregate	45	Diesel	12344.41842	0.021862375	269.8783057
San Bernardino (SC)	2024	LHDT2	Aggregate	45	Electricity	67.63742244	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	45	Gasoline	6773.018387	0.000777359	5.265068562
San Bernardino (SC)	2024	MHDT	Aggregate	45	Diesel	58634.53238	0.007037166	412.6209427
San Bernardino (SC)	2024	MHDT	Aggregate	45	Electricity	207.6788674	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	45	Natural Gas	813.471443	0.000647653	0.526847487
San Bernardino (SC)	2024	HHDT	Aggregate	50	Gasoline	12.35668222	0.003523856	0.04354317
San Bernardino (SC)	2024	HHDT	Aggregate	50	Diesel	75595.32335	0.017014359	1286.205976
San Bernardino (SC)	2024	HHDT	Aggregate	50	Electricity	215.8227457	0	0
San Bernardino (SC)	2024	HHDT	Aggregate	50	Natural Gas	9542.132868	0.001727671	16.48566829
San Bernardino (SC)	2024	LHDT2	Aggregate	50	Gasoline	6722.250755	0.000776506	5.219865312
San Bernardino (SC)	2024	LHDT2	Aggregate	50	Diesel	9425.905804	0.019912947	187.6975654
San Bernardino (SC)	2024	LHDT2	Aggregate	50	Electricity	52.68482249	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	50	Gasoline	5331.610071	0.000751383	4.006079622
San Bernardino (SC)	2024	MHDT	Aggregate	50	Diesel	47330.53321	0.008079944	382.4280693
San Bernardino (SC)	2024	MHDT	Aggregate	50	Electricity	166.3811969	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	50	Natural Gas	647.6787662	0.000590232	0.382280545
San Bernardino (SC)	2024	HHDT	Aggregate	55	Gasoline	12.81384432	0.003664983	0.046962527
San Bernardino (SC)	2024	HHDT	Aggregate	55	Diesel	79684.43487	0.021715296	1730.371088
San Bernardino (SC)	2024	HHDT	Aggregate	55	Electricity	227.1789056	0	0
San Bernardino (SC)	2024	HHDT	Aggregate	55	Natural Gas	9945.182956	0.001914787	19.04290467
San Bernardino (SC)	2024	LHDT2	Aggregate	55	Gasoline	5845.735642	0.000822535	4.808321347
San Bernardino (SC)	2024	LHDT2	Aggregate	55	Diesel	7884.311536	0.019210584	151.4622329
San Bernardino (SC)	2024	LHDT2	Aggregate	55	Electricity	44.66164373	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	55	Gasoline	4843.076444	0.000765987	3.709733194
San Bernardino (SC)	2024	MHDT	Aggregate	55	Diesel	43124.44485	0.009764405	421.0845325
San Bernardino (SC)	2024	MHDT	Aggregate	55	Electricity	151.5636581	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	55	Natural Gas	591.8255477	0.000612653	0.36258366
San Bernardino (SC)	2024	HHDT	Aggregate	65	Gasoline	33.78345349	0.004571703	0.154447908
San Bernardino (SC)	2024	HHDT	Aggregate	65	Diesel	211768.5467	0.033539792	7102.673039
San Bernardino (SC)	2024	HHDT	Aggregate	65	Electricity	612.5156801	0	0
San Bernardino (SC)	2024	HHDT	Aggregate	65	Natural Gas	26003.47245	0.002017491	52.46177501
San Bernardino (SC)	2024	LHDT2	Aggregate	65	Gasoline	12767.60239	0.001042283	13.30744886
San Bernardino (SC)	2024	LHDT2	Aggregate	65	Diesel	16905.40173	0.021643897	365.8987712
San Bernardino (SC)	2024	LHDT2	Aggregate	65	Electricity	96.38369113	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	65	Gasoline	9603.712845	0.000933823	8.968166677
San Bernardino (SC)	2024	MHDT	Aggregate	65	Diesel	77145.82033	0.013426844	1035.824879
San Bernardino (SC)	2024	MHDT	Aggregate	65	Electricity	280.3713695	0	0
San Bernardino (SC)	2024	MHDT	Aggregate	65	Natural Gas	1135.913931	0.000620848	0.70522937

CANCER RISK SUMMARY

UNMITIGATED

x,y	Description	Construction	Operations	Combined
480441.34, 3774196.2	27140 W 5th Street (Residence s/o SW Project site corner)	2.61	43.59	46.21
480415.97, 3774200.25	27136 W 5th Street (Residence s/o SW Project site corner)	2.97	38.89	41.85

MITIGATED OPERATIONS

x,y	Description	Construction	Operations	Combined
480441.34, 3774196.2	27140 W 5th Street (Residence s/o SW	2.61	0.29	2.91
480415.97, 3774200.25	27136 W 5th Street (Residence s/o SW	2.97	0.27	3.24

Residential DOSEair =		$(Cair*(BR/BW)*A*EF*10^{-6})$
A	1	Inhalation absorption factor[1]
EF	0.96	Exposure frequency (350/year)[2]
10^{-6}	1.0E-06	Micrograms to milligrams conversions, liters to cubic meters conversion[3]

	ASF	FAH	BR/BW
3rd Tri	10	1	361
0<2	10	1	1090
2<9	3	1	861
9<16	3	1	745
16<30	1	0.73	335

	ED	CSTN	Ops
3rd Tri	0.25	0	
0<2	1.75	0	
2<9	0	7	
9<16	0	7	
16<30	0	14	

Residential Risk =		DOSEair * CPF * ASF * ED/AT * FAH
CPF	1.1	Cancer Potency Factor for DPM[4]
AT	70	Averaging Time[5]

CHRONIC SUMMARY

Chronic Noncancer Hazard
Hazard Index = C_i / REL_i
REL = 5

Unmitigated

Location	Construction		Operational	
	Avg Annual Conc	Chronic HI	Avg Annual Conc	Chronic HI
27140 W 5th Street (Residence s/o SW Project site corner)	0.0087	0.0017	0.0779	0.0156
27136 W 5th Street (Residence s/o SW Project site corner)	0.0078	0.0016	0.0695	0.0139

Mitigated Operations

	Construction		Operational	
	Avg Annual Conc	Chronic HI	Avg Annual Conc	Chronic HI
27140 W 5th Street (Residence s/o SW Project site corner)		-	0.0005	0.0001
27136 W 5th Street (Residence s/o SW Project site corner)		-	0.0005	0.0001

CONSTRUCTION RISK

Unmitigated	
Onsite	Offsite
9.94E-03	1.25E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m³] Onsite	Offsite	Unmitigated Onsite	Offsite	Total	Residential Dose 3rd Tri	0<2	2<9	9<16	16<30	Risk by Age Group 3rd Tri	0<2	2<9	9<16	16<30	Total Risk
1	1	480416	3774200.25	480415.97, 3774200.25	0.77995	0.04109	7.75E-03	5.13E-07	7.76E-03	2.7E-06	8.1E-06	6.4E-06	5.5E-06	2.5E-06	7.4E-07	2.2E-06	0.0E+00	0.0E+00	0.0E+00	3.0E-06
2	1	480386.4	3774201.62	480386.35, 3774201.62	0.51628	0.03607	5.13E-03	4.50E-07	5.13E-03	1.8E-06	5.4E-06	4.2E-06	3.7E-06	1.6E-06	7.0E-08	1.5E-06	0.0E+00	0.0E+00	0.0E+00	1.5E-06
3	1	480364.5	3774200.25	480364.52, 3774200.25	0.36643	0.03302	3.64E-03	4.12E-07	3.64E-03	1.3E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	5.0E-08	1.0E-06	0.0E+00	0.0E+00	0.0E+00	1.1E-06
4	1	480441.3	3774196.2	480441.34, 3774196.2	0.87312	0.04643	8.68E-03	5.79E-07	8.68E-03	3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.8E-06	1.2E-07	2.5E-06	0.0E+00	0.0E+00	0.0E+00	2.6E-06
5	1	480332.7	3774203.34	480332.65, 3774203.34	0.25277	0.02932	2.51E-03	3.66E-07	2.51E-03	8.7E-07	2.6E-06	2.1E-06	1.8E-06	8.1E-07	3.4E-08	7.2E-07	0.0E+00	0.0E+00	0.0E+00	7.6E-07
6	1	480282	3774208.1	480281.98, 3774208.1	0.15661	0.02477	1.56E-03	3.09E-07	1.56E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	2.1E-08	4.5E-07	0.0E+00	0.0E+00	0.0E+00	4.7E-07
7	1	480259.4	3774210.95	480259.39, 3774210.95	0.13098	0.02315	1.30E-03	2.89E-07	1.30E-03	4.5E-07	1.4E-06	1.1E-06	9.3E-07	4.2E-07	1.8E-08	3.7E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
8	1	480179.2	3774215.23	480179.23, 3774215.23	0.07679	0.0187	7.64E-04	2.33E-07	7.64E-04	2.6E-07	8.0E-07	6.3E-07	5.5E-07	2.5E-07	1.0E-08	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
9	1	479777.1	3774155.68	479777.13, 3774155.68	0.01854	0.00936	1.84E-04	1.17E-07	1.84E-04	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	2.5E-09	5.3E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
10	1	479903.9	3774153.05	479903.88, 3774153.05	0.02501	0.01112	2.49E-04	1.39E-07	2.49E-04	8.6E-08	2.6E-07	2.1E-07	1.8E-07	8.0E-08	3.4E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	7.5E-08
11	1	479888.7	3774072.72	479888.73, 3774072.72	0.02275	0.01079	2.26E-04	1.35E-07	2.26E-04	7.8E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	3.1E-09	6.5E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
12	1	480286.7	3774147.78	480286.74, 3774147.78	0.12547	0.02499	1.25E-03	3.12E-07	1.25E-03	4.3E-07	1.3E-06	1.0E-06	8.9E-07	4.0E-07	1.7E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.8E-07
13	1	480415.6	3774088.13	480415.64, 3774088.13	0.16929	0.03828	1.68E-03	4.78E-07	1.68E-03	5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	2.3E-08	4.8E-07	0.0E+00	0.0E+00	0.0E+00	5.1E-07
14	1	480408	3774009.17	480408.03, 3774009.17	0.09463	0.03347	9.41E-04	4.18E-07	9.41E-04	3.3E-07	9.8E-07	7.8E-07	6.7E-07	3.0E-07	1.3E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
15	1	480445.4	3774004.65	480445.38, 3774004.65	0.10022	0.03803	9.96E-04	4.75E-07	9.97E-04	3.5E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	1.4E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
16	1	480447.3	3774028.67	480447.28, 3774028.67	0.11812	0.04002	1.17E-03	4.99E-07	1.17E-03	4.1E-07	1.2E-06	9.7E-07	8.4E-07	3.8E-07	1.6E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
17	1	480276.8	3774266.75	480276.83, 3774266.75	0.17324	0.02409	1.72E-03	3.01E-07	1.72E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	2.3E-08	5.0E-07	0.0E+00	0.0E+00	0.0E+00	5.2E-07
18	1	480151.3	3774266.75	480151.33, 3774266.75	0.06856	0.01737	6.82E-04	2.17E-07	6.82E-04	2.4E-07	7.1E-07	5.6E-07	4.9E-07	2.2E-07	9.3E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
19	1	480135.3	3774266.75	480135.3, 3774266.75	0.06286	0.01677	6.25E-04	2.09E-07	6.25E-04	2.2E-07	6.5E-07	5.2E-07	4.5E-07	2.0E-07	8.5E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
20	UCART1	479301.5	3774413.98	479301.5, 3774413.98	0.00901	0.00584	8.96E-05	7.29E-08	8.97E-05	3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
21	UCART1	479351.5	3774413.98	479351.5, 3774413.98	0.00955	0.00608	9.50E-05	7.59E-08	9.50E-05	3.3E-08	9.9E-08	7.8E-08	6.8E-08	3.1E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
22	UCART1	479401.5	3774413.98	479401.5, 3774413.98	0.01014	0.00633	1.01E-04	7.90E-08	1.01E-04	3.5E-08	1.1E-07	8.3E-08	7.2E-08	3.2E-08	1.4E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
23	UCART1	479451.5	3774413.98	479451.5, 3774413.98	0.01082	0.0066	1.08E-04	8.23E-08	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	1.5E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
24	UCART1	479501.5	3774413.98	479501.5, 3774413.98	0.01159	0.0069	1.15E-04	8.61E-08	1.15E-04	4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	1.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
25	UCART1	479551.5	3774413.98	479551.5, 3774413.98	0.01246	0.00722	1.24E-04	9.01E-08	1.24E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	1.7E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
26	UCART1	479601.5	3774413.98	479601.5, 3774413.98	0.01347	0.00758	1.34E-04	9.46E-08	1.34E-04	4.6E-08	1.4E-07	1.1E-07	9.6E-08	4.3E-08	1.8E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
27	UCART1	479651.5	3774413.98	479651.5, 3774413.98	0.01463	0.00797	1.45E-04	9.94E-08	1.46E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	2.0E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
28	UCART1	479701.5	3774413.98	479701.5, 3774413.98	0.01601	0.00841	1.59E-04	1.05E-07	1.59E-04	5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	2.2E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
29	UCART1	479751.5	3774413.98	479751.5, 3774413.98	0.01764	0.00889	1.75E-04	1.11E-07	1.76E-04	6.1E-08	1.8E-07	1.4E-07	1.3E-07	5.6E-08	2.4E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
30	UCART1	479801.5	3774413.98	479801.5, 3774413.98	0.0196	0.00943	1.95E-04	1.18E-07	1.95E-04	6.8E-08	2.0E-07	1.6E-07	1.4E-07	6.3E-08	2.7E-09	5.6E-08	0.0E+00	0.0E+00	0.0E+00	5.9E-08
31	UCART1	479851.5	3774413.98	479851.5, 3774413.98	0.02201	0.01004	2.19E-04	1.25E-07	2.19E-04	7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.0E-08	3.0E-09	6.3E-08	0.0E+00	0.0E+00	0.0E+00	6.6E-08
32	UCART1	479901.5	3774413.98	479901.5, 3774413.98	0.025	0.01073	2.49E-04	1.34E-07	2.49E-04	8.6E-08	2.6E-07	2.1E-07	1.8E-07	8.0E-08	3.4E-09	7.1E-08	0.0E+00	0.0E+00	0.0E+00	7.5E-08
33	UCART1	479951.5	3774413.98	479951.5, 3774413.98	0.02879	0.01152	2.86E-04	1.44E-07	2.86E-04	9.9E-08	3.0E-07	2.4E-07	2.0E-07	9.2E-08	3.9E-09	8.2E-08	0.0E+00	0.0E+00	0.0E+00	8.6E-08
34	UCART1	480001.5	3774413.98	480001.5, 3774413.98	0.0337	0.01244	3.35E-04	1.55E-07	3.35E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	4.6E-09	9.6E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
35	UCART1	480051.5	3774413.98	480051.5, 3774413.98	0.04025	0.01351	4.00E-04	1.69E-07	4.00E-04	1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	5.4E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
36	UCART1	480101.5	3774413.98	480101.5, 3774413.98	0.0493	0.01477	4.90E-04	1.84E-07	4.90E-04	1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	6.7E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
37	UCART1	480151.5	3774413.98	480151.5, 3774413.98	0.06233	0.01628	6.20E-04	2.03E-07	6.20E-04	2.1E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	8.4E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
38	UCART1	480201.5	3774413.98	480201.5, 3774413.98	0.08215	0.01813	8.17E-04	2.26E-07	8.17E-04	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
39	UCART1	480251.5	3774413.98	480251.5, 3774413.98	0.11455	0.02041	1.14E-03	2.55E-07	1.14E-03	3.9E-07	1.2E-06	9.4E-07	8.1E-07	3.7E-07	1.5E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
40	UCART1	480301.5	3774413.98	480301.5, 3774413.98	0.17268	0.0233	1.72E-03	2.91E-07	1.72E-03	5.9E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	2.3E-08	4.9E-07	0.0E+00	0.0E+00	0.0E+00	5.2E-07
41	UCART1	480351.5	3774413.98	480351.5, 3774413.98	0.29233	0.02706	2.91E-03	3.38E-07	2.91E-03	1.0E-06	3.0E-06	2.4E-06	2.1E-06	9.3E-07	4.0E-08	8.4E-07	0.0E+00	0.0E+00	0.0E+00	8.8E-07
42	UCART1	480401.5	3774413.98	480401.5, 3774413.98	0.57954	0.03208	5.76E-03	4.00E-07	5.76E-03	2.0E-06	6.0E-06	4.8E-06	4.1E-06	1.9E-06	7.8E-08	1.7E-06	0.0E+00	0.0E+00	0.0E+00	1.7E-06
43	UCART1	480451.5	3774413.98	480451.5, 3774413.98	1.06346	0.03908	1.06E-02	4.88E-07	1.06E-02	3.7E-06	1.1E-05	8.7E-06	7.6E-06	3.4E-06	1.4E-07	3.0E-06	0.0E+00	0.0E+00	0.0E+00	3.2E-06
44	UCART1	480501.5	3774413.98	480501.5, 3774413.98	1.30453	0.04932	1.30E-02	6.15E-07	1.30E-02	4.5E-06	1.4E-05	1.1E-05	9.3E-06	4.2E-06	1.8E-07	3.7E-06	0.0E+00	0.0E+00	0.0E+00	3.9E-06
45	UCART1	480551.5	3774413.98	480551.5, 3774413.98	1.30609	0.06534	1.30E-02	8.15E-07	1.30E-02	4.5E-06	1.4E-05	1.1E-05	9.3E-06	4.2E-06	1.8E-07	3.7E-06	0.0E+00	0.0E+00	0.0E+00	3.9E-06
46	UCART1	480601.5	3774413.98	480601.5, 3774413.98	1.24454	0.09282	1.24E-02	1.16E-06	1.24E-02	4.3E-06	1.3E-05	1.0E-05	8.8E-06	4.0E-06	1.7E-07	3.6E-06	0.0E+00	0.0E+00	0.0E+00	3.7E-06
47	UCART1	480651.5	3774413.98	480651.5, 3774413.98	1.13846	0.14792	1.13E-02	1.85E-06	1.13E-02	3.9E-06	1.2E-05	9.3E-06	8.1E-06	3.6E-06	1.5E-07	3.3E-06	0.0E+00	0.0E+00	0.0E+00	3.4E-06
48	UCART1	480701.5	3774413.98	480701.5, 3774413.98	0.93826	0.28924	9.33E-03	3.61E-06	9.33E-03	3.2E-06	9.8E-06	7.7E-06	6.7E-06	3.0E-06	1.3E-07	2.7E-06	0.0E+00	0.0E+00	0.0E+00	2.8E-06
49	UCART1	480751.5	3774413.98	480751.5, 3774413.98	0.54455	0.47752	5.41E-03	5.96E-06	5.42E-03	1.9E-06	5.7E-06	4.5E-06	3.9E-06	1.7E-06	7.4E-08	1.6E-06	0.0E+00	0.0E+00	0.0E+00	1.6E-06
50	UCART1	480801.5	3774413.98	480801.5, 3774413.98	0.30094	0.24782	2.99E-03	3.09E-06	3.00E-03	1.0E-06	3.1E-06	2.5E-06	2.1E-06	9.6E-07	4.1E-08	8.6E-07	0.0E+00	0.0E+00	0.0E+00	9.0E-07
51	UCART1	480851.5	3774413.98	480851.5, 3774413.98	0.19875	0.15827	1.98E-03	1.97E-06	1.98E-03	6.8E-07	2.1E-06	1.6E-06	1.4E-06	6.4E-07	2.7E-08	5.7E-07	0.0E+00	0.0E+00	0.0E+00	6.0E-07
52	UCART1	480901.5	3774413.98	480901.5, 3774413.98	0.14306	0.1217	1.42E-03	1.52E-06	1.42E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	1.9E-08	4.1E-07	0.0E+00	0.0E+00	0.0E+00	4.3E-07
53	UCART1	480951.5	3774413.98	480951.5, 3774413.98	0.10912	0.10367	1.08E-03	1.29E-06	1.09E-03	3.8E-07	1.1E-06	9.0E-07	7.8E-07	3.5E-07	1.5E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
54	UCART1	481001.5	3774413.98	481001.5, 3774413.98	0.08661	0.09346	8.61E-04	1.17E-06	8.62E-04	3.0E-07	9.0E-07	7.1E-07	6.2E-07	2.8E-07	1.2E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
55	UCART1	481051.5	3774413.98	481051.5, 3774413.98	0.07049	0.08686	7.01E-04	1.08E-06	7.02E-04	2.4E-07	7.3E-07	5.8E-07	5.0E-07	2.3E-07	9.5E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
56	UCART1	481101.5	3774413.98	481101.5, 3774413.98	0.05881	0.0825	5.85E-04	1.03E-06	5.86E-04	2.0E-07	6.1E-07	4.8E-07	4.2E-07	1.9E-07	8.0E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
57	UCART1	481151.5	3774413.98	481151.5, 3774413.98	0.04983	0.07918	4.95E-04	9.88E-07	4.96E-04	1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	6.8E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
58	UCART1	481201.5	3774413.98	481201.5, 3774413.98	0.04288	0.07666	4.26E-04	9.56E-07	4.27E-04	1.5E-07	4.5E-07	3.5E-07	3.1E-07	1.4E-07	5.8E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
59	UCART1	481251.5	3774413.98	481251.5, 3774413.98	0.03702	0.07446	3.72E-04	9.29E-07	3.73E-04	1.3E-07	3.9E-07	3.1E-07	2.7E-07	1.2E-07	5.1E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
60	UCART1	481301.5	3774413.98	481301.5, 3774413.98	0.03307	0.07241	3.29E-04	9.03E-07	3.30E-04	1.1E-07	3.4E-07	2.7E-07	2.4E-07	1.1E-07	4.5E-09	9.5E-08	0.0E+00	0.0E+00	0.0E+00	9.9E-08
61	UCART1	481351.5	3774413.98	481351.5, 3774413.98	0.02952	0.07018	2.94E-04	8.76E-07	2.94E-04	1.0E-07	3.1E-07	2.4E-07	2.1E-07	9.5E-08	4.0E-09	8.5E-08	0.0E+00	0.0E+00	0.0E+00	8.9E-08
62	UCART1	481401.5	3774413.98	481401.5, 3774413.98	0.02655	0.0677	2.64E-04	8.45E-07	2.65E-04	9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	3.6E-09	7.6E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
63	UCART1	481451.5	3774413.98	481451.5, 3774413.98	0.02404	0.06448	2.39E-04	8.05E-07	2.40E-04	8.3E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	3.3E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.2E-08
64	UCART1	479301.5	3774663.98	479301.5, 3774663.98	0.00897	0.00582	8.92E-05	7.26E-08	8.93E-05	3.1E-08	9.3E-08	7.4E-08	6.4E-08	2.9E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
65	UCART1	479351.5	3774663.98	479351.5, 3774663.98	0.0095	0.00605	9.45E-05	7.55E-08	9.45E-05	3.3E-08	9.9E-08	7.8E-08	6.8E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
66	UCART1	479401.5	3774663.98	479401.5, 3774663.98	0.01008	0.0063	1.00E-04	7.86E-08	1.00E-04	3.5E-08	1.0E-07	8.3E-08	7.2E-08	3.2E-08	1.4E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
67	UCART1	479451.5	3774663.98	479451.5, 3774663.98	0.01074	0.00657	1.07E-04	8.20E-08	1.07E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.5E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
68	UCART1	479501.5	3774663.98	479501.5, 3774663.98	0.01149	0.00685	1.14E-04	8.55E-08	1.14E-04	4.0E-08	1.2E-07	9.4E-08	8.2E-08	3.7E-08	1.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
69	UCART1	479551.5	3774663.98	479551.5, 3774663.98	0.01234	0.00717	1.23E-04	8.95E-08	1.23E-04	4.3E-08	1.3E-07	1.0E-07	8.8E-08	3.9E-08	1.7E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
70	UCART1	479601.5	3774663.98	479601.5, 3774663.98	0.01331	0.00752	1.32E-04	9.38E-08	1.32E-04	4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	1.8E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
71	UCART1	479651.5	3774663.98	479651.5, 3774663.98	0.01444	0.0079	1.44E-04	9.86E-08	1.44E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	2.0E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
72	UCART1	479701.5	3774663.98	479701.5, 3774663.98	0.01577	0.00832	1.57E-04	1.04E-07	1.57E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
73	UCART1	479751.5	3774663.98	479751.5, 3774663.98	0.01732	0.00878	1.72E-04	1.10E-07	1.72E-04	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	2.3E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
74	UCART1	479801.5	3774663.98	479801.5, 3774663.98	0.0192	0.00931	1.91E-04	1.16E-07	1.91E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.8E-08
75	UCART1	479851.5	3774663.98	479851.5, 3774663.98	0.02146	0.00989	2.13E-04	1.23E-07	2.13E-04	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	2.9E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
76	UCART1	479901.5	3774663.98	479901.5, 3774663.98	0.02425	0.01055	2.41E-04	1.32E-07	2.41E-04	8.4E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	3.3E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.3E-08
77	UCART1	479951.5	3774663.98	479951.5, 3774663.98	0.02775	0.0113	2.76E-04	1.41E-07	2.76E-04	9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	3.8E-09	7.9E-08	0.0E+00	0.0E+00	0.0E+00	8.3E-08
78	UCART1	480001.5	3774663.98	480001.5, 3774663.98	0.03223	0.01216	3.20E-04	1.52E-07	3.21E-04	1.1E-07	3.4E-07	2.6E-07	2.3E-07	1.0E-07	4.4E-09	9.2E-08	0.0E+00	0.0E+00	0.0E+00	9.7E-08
79	UCART1	480051.5	3774663.98	480051.5, 3774663.98	0.0381	0.01317	3.79E-04	1.64E-07	3.79E-04	1.3E-07	4.0E-07	3.1E-07	2.7E-07	1.2E-07	5.2E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
80	UCART1	480101.5	3774663.98	480101.5, 3774663.98	0.046	0.01434	4.57E-04	1.79E-07	4.58E-04	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	6.2E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
81	UCART1	480151.5	3774663.98	480151.5, 3774663.98	0.05699	0.01573	5.67E-04	1.98E-07	5.67E-04	2.0E-07	5.9E-07	4.7E-07	4.0E-07	1.8E-07	7.7E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
82	UCART1	480201.5	3774663.98	480201.5, 3774663.98	0.07288	0.01741	7.25E-04	2.17E-07	7.25E-04	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	9.9E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
83	UCART1	480251.5	3774663.98	480251.5, 3774663.98	0.09688	0.01946	9.63E-04	2.43E-07	9.64E-04	3.3E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	1.3E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
84	UCART1	480301.5	3774663.98	480301.5, 3774663.98	0.13463	0.02201	1.34E-03	2.75E-07	1.34E-03	4.6E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	1.8E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
85	UCART1	480351.5	3774663.98	480351.5, 3774663.98	0.1954	0.02525	1.94E-03	3.15E-07	1.94E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	2.6E-08	5.6E-07	0.0E+00	0.0E+00	0.0E+00	5.8E-07
86	UCART1	480401.5	3774663.98	480401.5, 3774663.98	0.28586	0.02946	2.84E-03	3.68E-07	2.84E-03	9.8E-07	3.0E-06	2.3E-06	2.0E-06	9.1E-07	3.9E-08	8.2E-07	0.0E+00	0.0E+00	0.0E+00	8.6E-07
87	UCART1	480451.5	3774663.98	480451.5, 3774663.98	0.38649	0.03509	3.84E-03	4.38E-07	3.84E-03	1.3E-06	4.0E-06	3.2E-06	2.7E-06	1.2E-06	5.2E-08	1.1E-06	0.0E+00	0.0E+00	0.0E+00	1.2E-06
88	UCART1	480501.5	3774663.

				Concentration (AVERAGE CONC) [ug/m³	Concentration (AVERAGE CONC) [ug/m^3]		Residential Dose					Risk by Age Group					
Discrete Receptor ID	X	Y	X, Y	Onsite	Offsite	Onsite	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
139 UCART1	480801.5	3774513.98	480801.5, 3774513.98	0.1339	0.08027	1.33E-03	1.00E-06	1.33E-03	4.6E-07	1.4E-06	1.1E-06	9.5E-07	4.3E-07	1.8E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
140 UCART1	480851.5	3774513.98	480851.5, 3774513.98	0.10709	0.07322	1.06E-03	9.14E-07	1.07E-03	3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	1.4E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
141 UCART1	480901.5	3774513.98	480901.5, 3774513.98	0.08635	0.06652	8.59E-04	8.30E-07	8.59E-04	3.0E-07	9.0E-07	7.1E-07	6.1E-07	2.8E-07	1.2E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
142 UCART1	480951.5	3774513.98	480951.5, 3774513.98	0.07146	0.06185	7.11E-04	7.72E-07	7.11E-04	2.5E-07	7.4E-07	5.9E-07	5.1E-07	2.3E-07	9.7E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
143 UCART1	481001.5	3774513.98	481001.5, 3774513.98	0.05976	0.05819	5.94E-04	7.26E-07	5.95E-04	2.1E-07	6.2E-07	4.9E-07	4.2E-07	1.9E-07	8.1E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
144 UCART1	481051.5	3774513.98	481051.5, 3774513.98	0.05113	0.05569	5.08E-04	6.95E-07	5.09E-04	1.8E-07	5.3E-07	4.2E-07	3.6E-07	1.6E-07	6.9E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
145 UCART1	481101.5	3774513.98	481101.5, 3774513.98	0.04413	0.0536	4.39E-04	6.69E-07	4.39E-04	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	6.0E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
146 UCART1	481151.5	3774513.98	481151.5, 3774513.98	0.03859	0.05194	3.84E-04	6.48E-07	3.84E-04	1.3E-07	4.0E-07	3.2E-07	2.7E-07	1.2E-07	5.2E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
147 UCART1	481201.5	3774513.98	481201.5, 3774513.98	0.03406	0.05037	3.39E-04	6.28E-07	3.39E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	4.6E-09	9.8E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
148 UCART1	481251.5	3774513.98	481251.5, 3774513.98	0.03038	0.04883	3.02E-04	6.09E-07	3.03E-04	1.0E-07	3.2E-07	2.5E-07	2.2E-07	9.7E-08	4.1E-09	8.7E-08	0.0E+00	0.0E+00	0.0E+00	9.1E-08
149 UCART1	481301.5	3774513.98	481301.5, 3774513.98	0.02736	0.0473	2.72E-04	5.90E-07	2.73E-04	9.4E-08	2.8E-07	2.3E-07	1.9E-07	8.8E-08	3.7E-09	7.8E-08	0.0E+00	0.0E+00	0.0E+00	8.2E-08
150 UCART1	481351.5	3774513.98	481351.5, 3774513.98	0.02482	0.04575	2.47E-04	5.71E-07	2.47E-04	8.6E-08	2.6E-07	2.0E-07	1.8E-07	7.9E-08	3.4E-09	7.1E-08	0.0E+00	0.0E+00	0.0E+00	7.4E-08
151 UCART1	481401.5	3774513.98	481401.5, 3774513.98	0.02265	0.0439	2.25E-04	5.48E-07	2.26E-04	7.8E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	3.1E-09	6.5E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
152 UCART1	481451.5	3774513.98	481451.5, 3774513.98	0.02079	0.04194	2.07E-04	5.23E-07	2.07E-04	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	2.8E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.2E-08
153 UCART1	481501.5	3774513.98	481501.5, 3774513.98	0.01913	0.03956	1.90E-04	4.94E-07	1.91E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
154 UCART1	481551.5	3774513.98	481551.5, 3774513.98	0.01773	0.03708	1.76E-04	4.63E-07	1.77E-04	6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.7E-08	2.4E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
155 UCART1	479301.5	3774563.98	479301.5, 3774563.98	0.00883	0.00575	8.78E-05	7.17E-08	8.79E-05	3.0E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
156 UCART1	479351.5	3774563.98	479351.5, 3774563.98	0.00932	0.00597	9.27E-05	7.45E-08	9.27E-05	3.2E-08	9.7E-08	7.7E-08	6.6E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
157 UCART1	479401.5	3774563.98	479401.5, 3774563.98	0.00987	0.00621	9.81E-05	7.75E-08	9.82E-05	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
158 UCART1	479451.5	3774563.98	479451.5, 3774563.98	0.01049	0.00646	1.04E-04	8.06E-08	1.04E-04	3.6E-08	1.1E-07	8.6E-08	7.5E-08	3.4E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
159 UCART1	479501.5	3774563.98	479501.5, 3774563.98	0.01118	0.00673	1.11E-04	8.40E-08	1.11E-04	3.9E-08	1.2E-07	9.2E-08	7.9E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
160 UCART1	479551.5	3774563.98	479551.5, 3774563.98	0.01197	0.00703	1.19E-04	8.77E-08	1.19E-04	4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	1.6E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
161 UCART1	479601.5	3774563.98	479601.5, 3774563.98	0.01286	0.00735	1.28E-04	9.17E-08	1.28E-04	4.4E-08	1.3E-07	1.1E-07	9.1E-08	4.1E-08	1.7E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
162 UCART1	479651.5	3774563.98	479651.5, 3774563.98	0.01388	0.00771	1.38E-04	9.62E-08	1.38E-04	4.8E-08	1.4E-07	1.1E-07	9.9E-08	4.4E-08	1.9E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
163 UCART1	479701.5	3774563.98	479701.5, 3774563.98	0.01506	0.00809	1.50E-04	1.01E-07	1.50E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
164 UCART1	479751.5	3774563.98	479751.5, 3774563.98	0.01643	0.00852	1.63E-04	1.06E-07	1.63E-04	5.7E-08	1.7E-07	1.3E-07	1.1E-07	5.3E-08	2.2E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
165 UCART1	479801.5	3774563.98	479801.5, 3774563.98	0.01805	0.00899	1.79E-04	1.12E-07	1.80E-04	6.2E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	2.4E-09	5.2E-08	0.0E+00	0.0E+00	0.0E+00	5.4E-08
166 UCART1	479851.5	3774563.98	479851.5, 3774563.98	0.01997	0.00951	1.99E-04	1.19E-07	1.99E-04	6.9E-08	2.1E-07	1.6E-07	1.4E-07	6.4E-08	2.7E-09	5.7E-08	0.0E+00	0.0E+00	0.0E+00	6.0E-08
167 UCART1	479901.5	3774563.98	479901.5, 3774563.98	0.0223	0.0101	2.22E-04	1.26E-07	2.22E-04	7.7E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	3.0E-09	6.4E-08	0.0E+00	0.0E+00	0.0E+00	6.7E-08
168 UCART1	479951.5	3774563.98	479951.5, 3774563.98	0.02512	0.01076	2.50E-04	1.34E-07	2.50E-04	8.7E-08	2.6E-07	2.1E-07	1.8E-07	8.0E-08	3.4E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	7.5E-08
169 UCART1	480001.5	3774563.98	480001.5, 3774563.98	0.02861	0.01151	2.84E-04	1.44E-07	2.85E-04	9.9E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	3.9E-09	8.2E-08	0.0E+00	0.0E+00	0.0E+00	8.6E-08
170 UCART1	480051.5	3774563.98	480051.5, 3774563.98	0.03298	0.01236	3.28E-04	1.54E-07	3.28E-04	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.1E-07	4.5E-09	9.4E-08	0.0E+00	0.0E+00	0.0E+00	9.9E-08
171 UCART1	480101.5	3774563.98	480101.5, 3774563.98	0.03854	0.01335	3.83E-04	1.67E-07	3.83E-04	1.3E-07	4.0E-07	3.2E-07	2.7E-07	1.2E-07	5.2E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
172 UCART1	480151.5	3774563.98	480151.5, 3774563.98	0.04569	0.01449	4.54E-04	1.81E-07	4.54E-04	1.6E-07	4.8E-07	3.8E-07	3.2E-07	1.5E-07	6.2E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
173 UCART1	480201.5	3774563.98	480201.5, 3774563.98	0.05499	0.01582	5.47E-04	1.97E-07	5.47E-04	1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.8E-07	7.4E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
174 UCART1	480251.5	3774563.98	480251.5, 3774563.98	0.06711	0.01741	6.67E-04	2.17E-07	6.67E-04	2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.1E-07	9.1E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
175 UCART1	480301.5	3774563.98	480301.5, 3774563.98	0.08265	0.01931	8.22E-04	2.41E-07	8.22E-04	2.8E-07	8.6E-07	6.8E-07	5.9E-07	2.6E-07	1.1E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
176 UCART1	480351.5	3774563.98	480351.5, 3774563.98	0.10154	0.0216	1.01E-03	2.70E-07	1.01E-03	3.5E-07	1.1E-06	8.3E-07	7.2E-07	3.2E-07	1.4E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
177 UCART1	480401.5	3774563.98	480401.5, 3774563.98	0.12223	0.0244	1.22E-03	3.04E-07	1.22E-03	4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	1.7E-08	3.5E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
178 UCART1	480451.5	3774563.98	480451.5, 3774563.98	0.14143	0.02785	1.41E-03	3.47E-07	1.41E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	1.9E-08	4.0E-07	0.0E+00	0.0E+00	0.0E+00	4.2E-07
179 UCART1	480501.5	3774563.98	480501.5, 3774563.98	0.1549	0.03211	1.54E-03	4.01E-07	1.54E-03	5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	2.1E-08	4.4E-07	0.0E+00	0.0E+00	0.0E+00	4.6E-07
180 UCART1	480551.5	3774563.98	480551.5, 3774563.98	0.16038	0.03731	1.59E-03	4.66E-07	1.60E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	2.2E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.8E-07
181 UCART1	480601.5	3774563.98	480601.5, 3774563.98	0.15905	0.04343	1.58E-03	5.42E-07	1.58E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	2.2E-08	4.5E-07	0.0E+00	0.0E+00	0.0E+00	4.8E-07
182 UCART1	480651.5	3774563.98	480651.5, 3774563.98	0.14983	0.04993	1.49E-03	6.23E-07	1.49E-03	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.8E-07	2.0E-08	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.5E-07
183 UCART1	480701.5	3774563.98	480701.5, 3774563.98	0.13454	0.05545	1.34E-03	6.92E-07	1.34E-03	4.6E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	1.8E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
184 UCART1	480751.5	3774563.98	480751.5, 3774563.98	0.11569	0.05811	1.15E-03	7.25E-07	1.15E-03	4.0E-07	1.2E-06	9.5E-07	8.2E-07	3.7E-07	1.6E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
185 UCART1	480801.5	3774563.98	480801.5, 3774563.98	0.09763	0.0576	9.71E-04	7.19E-07	9.71E-04	3.4E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	1.3E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
186 UCART1	480851.5	3774563.98	480851.5, 3774563.98	0.08174	0.05517	8.13E-04	6.88E-07	8.13E-04	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
187 UCART1	480901.5	3774563.98	480901.5, 3774563.98	0.06838	0.05221	6.82E-04	6.51E-07	6.83E-04	2.4E-07	7.1E-07	5.6E-07	4.9E-07	2.2E-07	9.3E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
188 UCART1	480951.5	3774563.98	480951.5, 3774563.98	0.05826	0.04972	5.79E-04	6.20E-07	5.80E-04	2.0E-07	6.1E-07	4.8E-07	4.1E-07	1.9E-07	7.9E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
189 UCART1	481001.5	3774563.98	481001.5, 3774563.98	0.05004	0.04763	4.98E-04	5.94E-07	4.98E-04	1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	6.8E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
190 UCART1	481051.5	3774563.98	481051.5, 3774563.98	0.04356	0.04602	4.33E-04	5.74E-07	4.34E-04	1.5E-07	4.5E-07	3.6E-07	3.1E-07	1.4E-07	5.9E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
191 UCART1	481101.5	3774563.98	481101.5, 3774563.98	0.03812	0.04454	3.79E-04	5.56E-07	3.80E-04	1.3E-07	4.0E-07	3.1E-07	2.7E-07	1.2E-07	5.2E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
192 UCART1	481151.5	3774563.98	481151.5, 3774563.98	0.03374	0.04324	3.35E-04	5.40E-07	3.36E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	4.6E-09	9.7E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
193 UCART1	481201.5	3774563.98	481201.5, 3774563.98	0.0302	0.04208	3.00E-04	5.25E-07	3.01E-04	1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.7E-08	4.1E-09	8.6E-08	0.0E+00	0.0E+00	0.0E+00	9.1E-08
194 UCART1	481251.5	3774563.98	481251.5, 3774563.98	0.02722	0.04088	2.71E-04	5.10E-07	2.71E-04	9.4E-08	2.8E-07	2.2E-07	1.9E-07	8.7E-08	3.7E-09	7.8E-08	0.0E+00	0.0E+00	0.0E+00	8.2E-08
195 UCART1	481301.5	3774563.98	481301.5, 3774563.98	0.02471	0.03958	2.46E-04	4.94E-07	2.46E-04	8.5E-08	2.6E-07	2.0E-07	1.8E-07	7.9E-08	3.3E-09	7.1E-08	0.0E+00	0.0E+00	0.0E+00	7.4E-08
196 UCART1	481351.5	3774563.98	481351.5, 3774563.98	0.0226	0.03832	2.25E-04	4.78E-07	2.25E-04	7.8E-08	2.4E-07	1.9E-07	1.6E-07	7.2E-08	3.1E-09	6.5E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
197 UCART1	481401.5	3774563.98	481401.5, 3774563.98	0.02075	0.03683	2.06E-04	4.60E-07	2.07E-04	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.6E-08	2.8E-09	5.9E-08	0.0E+00	0.0E+00	0.0E+00	6.2E-08
198 UCART1	481451.5	3774563.98	481451.5, 3774563.98	0.01912	0.0351	1.90E-04	4.38E-07	1.91E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
199 UCART1	481501.5	3774563.98	481501.5, 3774563.98	0.01775	0.03337	1.76E-04	4.16E-07	1.77E-04	6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.7E-08	2.4E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
200 UCART1	481551.5	3774563.98	481551.5, 3774563.98	0.0165	0.03138	1.64E-04	3.92E-07	1.64E-04	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	2.2E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	5.0E-08
201 UCART1	479301.5	3774613.98	479301.5, 3774613.98	0.00873	0.00571	8.68E-05	7.12E-08	8.69E-05	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
202 UCART1	479351.5	3774613.98	479351.5, 3774613.98	0.00921	0.00592	9.16E-05	7.38E-08	9.16E-05	3.2E-08	9.6E-08	7.6E-08	6.5E-08	2.9E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
203 UCART1	479401.5	3774613.98	479401.5, 3774613.98	0.00974	0.00615	9.68E-05	7.67E-08	9.69E-05	3.4E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
204 UCART1	479451.5	3774613.98	479451.5, 3774613.98	0.01033	0.00639	1.03E-04	7.97E-08	1.03E-04	3.6E-08	1.1E-07	8.5E-08	7.3E-08	3.3E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
205 UCART1	479501.5	3774613.98	479501.5, 3774613.98	0.01098	0.00665	1.09E-04	8.30E-08	1.09E-04	3.8E-08	1.1E-07	9.0E-08	7.8E-08	3.5E-08	1.5E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
206 UCART1	479551.5	3774613.98	479551.5, 3774613.98	0.01173	0.00694	1.17E-04	8.66E-08	1.17E-04	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	1.6E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
207 UCART1	479601.5	3774613.98	479601.5, 3774613.98	0.01256	0.00725	1.25E-04	9.05E-08	1.25E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	1.7E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
208 UCART1	479651.5	3774613.98	479651.5, 3774613.98	0.01352	0.00759	1.34E-04	9.47E-08	1.35E-04	4.7E-08	1.4E-07	1.1E-07	9.6E-08	4.3E-08	1.8E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
209 UCART1	479701.5	3774613.98	479701.5, 3774613.98	0.01462	0.00795	1.45E-04	9.92E-08	1.45E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	2.0E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
210 UCART1	479751.5	3774613.98	479751.5, 3774613.98	0.01589	0.00836	1.58E-04	1.04E-07	1.58E-04	5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.2E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
211 UCART1	479801.5	3774613.98	479801.5, 3774613.98	0.01737	0.0088	1.73E-04	1.10E-07	1.73E-04	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.6E-08	2.4E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
212 UCART1	479851.5	3774613.98	479851.5, 3774613.98	0.01911	0.0093	1.90E-04	1.16E-07	1.90E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
213 UCART1	479901.5	3774613.98	479901.5, 3774613.98	0.02118	0.00984	2.11E-04	1.23E-07	2.11E-04	7.3E-08	2.2E-07	1.7E-07	1.5E-07	6.8E-08	2.9E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.3E-08
214 UCART1	479951.5	3774613.98	479951.5, 3774613.98	0.02366	0.01045	2.35E-04	1.30E-07	2.35E-04	8.1E-08	2.5E-07	1.9E-07	1.7E-07	7.6E-08	3.2E-09	6.8E-08	0.0E+00	0.0E+00	0.0E+00	7.1E-08
215 UCART1	480001.5	3774613.98	480001.5, 3774613.98	0.02667	0.01114	2.65E-04	1.39E-07	2.65E-04	9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	3.6E-09	7.6E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
216 UCART1	480051.5	3774613.98	480051.5, 3774613.98	0.03035	0.01192	3.02E-04	1.49E-07	3.02E-04	1.0E-07	3.2E-07	2.5E-07	2.2E-07	9.7E-08	4.1E-09	8.7E-08	0.0E+00	0.0E+00	0.0E+00	9.1E-08
217 UCART1	480101.5	3774613.98	480101.5, 3774613.98	0.03491	0.01281	3.47E-04	1.60E-07	3.47E-04	1.2E-07	3.6E-07	2.8E-07	2.5E-07	1.1E-07	4.7E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.0E-07
218 UCART1	480151.5	3774613.98	480151.5, 3774613.98	0.04056	0.01383	4.03E-04	1.73E-07	4.03E-04	1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	5.5E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
219 UCART1	480201.5	3774613.98	480201.5, 3774613.98	0.04758	0.01501	4.73E-04	1.87E-07	4.73E-04	1.6E-07	4.9E-07	3.9E-07	3.4E-07	1.5E-07	6.4E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
220 UCART1	480251.5	3774613.98	480251.5, 3774613.98	0.05622	0.01639	5.59E-04	2.05E-07	5.59E-04	1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	7.6E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
221 UCART1	480301.5	3774613.98	480301.5, 3774613.98	0.06654	0.01801	6.62E-04	2.25E-07	6.62E-04	2.3E-07	6.9E-07	5.5E-07	4.7E-07	2.1E-07	9.0E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
222 UCART1	480351.5	3774613.98	480351.5, 3774613.98	0.0782	0.01991	7.78E-04	2.48E-07	7.78E-04	2.7E-07	8.1E-07	6.4E-07	5.6E-07	2.5E-07	1.1E-08	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
223 UCART1	480401.5	3774613.98	480401.5, 3774613.98	0.09017	0.02217	8.97E-04	2.77E-07	8.97E-04	3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	1.2E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
224 UCART1	480451.5	3774613.98	480451.5, 3774613.98	0.10056	0.02486	1.00E-03	3.10E-07	1.00E-03	3.5E-07	1.0E-06	8.3E-07	7.1E-07	3.2E-07	1.4E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
225 UCART1	480501.5	3774613.98	480501.5, 3774613.98	0.10802	0.02801	1.07E-03	3.49E-07	1.07E-03	3.7E-07	1.1E-06	8.9E-07	7.7E-07	3.5E-07	1.5E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
226 UCART1	480551.5	3774613.98	480551.5, 3774613.98	0.11116	0.03164	1.11E-03	3.95E-07	1.11E-03	3.8E-07

				Concentration (AVERAGE CONC) [ug/m³		Concentration (AVERAGE CONC) [ug/m^3]			Residential Dose						Risk by Age Group					
Discrete Receptor ID	X	Y	X, Y	Onsite	Offsite	Onsite	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
285 UCART1	481201.5	3774663.98	481201.5, 3774663.98	0.0241	0.03089	2.40E-04	3.85E-07	2.40E-04	8.3E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	3.3E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.2E-08
286 UCART1	481251.5	3774663.98	481251.5, 3774663.98	0.02205	0.03008	2.19E-04	3.75E-07	2.20E-04	7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	3.0E-09	6.3E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.6E-08
287 UCART1	481301.5	3774663.98	481301.5, 3774663.98	0.02032	0.02927	2.02E-04	3.65E-07	2.02E-04	7.0E-08	2.1E-07	1.7E-07	1.4E-07	6.5E-08	2.8E-09	5.8E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.1E-08
288 UCART1	481351.5	3774663.98	481351.5, 3774663.98	0.01876	0.02832	1.87E-04	3.53E-07	1.87E-04	6.5E-08	2.0E-07	1.5E-07	1.3E-07	6.0E-08	2.5E-09	5.4E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.6E-08
289 UCART1	481401.5	3774663.98	481401.5, 3774663.98	0.01737	0.02727	1.73E-04	3.40E-07	1.73E-04	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.6E-08	2.4E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.2E-08
290 UCART1	481451.5	3774663.98	481451.5, 3774663.98	0.0162	0.0262	1.61E-04	3.27E-07	1.61E-04	5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	2.2E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.9E-08
291 UCART1	481501.5	3774663.98	481501.5, 3774663.98	0.0151	0.02495	1.50E-04	3.11E-07	1.50E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.5E-08
292 UCART1	481551.5	3774663.98	481551.5, 3774663.98	0.01418	0.0237	1.41E-04	2.96E-07	1.41E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	1.9E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.3E-08
293 UCART1	479301.5	3774713.98	479301.5, 3774713.98	0.00847	0.0056	8.42E-05	6.99E-08	8.43E-05	2.9E-08	8.8E-08	7.0E-08	6.0E-08	2.7E-08	1.1E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.5E-08
294 UCART1	479351.5	3774713.98	479351.5, 3774713.98	0.00891	0.00579	8.86E-05	7.22E-08	8.87E-05	3.1E-08	9.3E-08	7.3E-08	6.3E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-08
295 UCART1	479401.5	3774713.98	479401.5, 3774713.98	0.00939	0.00601	9.34E-05	7.50E-08	9.34E-05	3.2E-08	9.8E-08	7.7E-08	6.7E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.8E-08
296 UCART1	479451.5	3774713.98	479451.5, 3774713.98	0.00992	0.00623	9.86E-05	7.77E-08	9.87E-05	3.4E-08	1.0E-07	8.1E-08	7.1E-08	3.2E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-08
297 UCART1	479501.5	3774713.98	479501.5, 3774713.98	0.01051	0.00647	1.04E-04	8.07E-08	1.05E-04	3.6E-08	1.1E-07	8.6E-08	7.5E-08	3.4E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.1E-08
298 UCART1	479551.5	3774713.98	479551.5, 3774713.98	0.01116	0.00673	1.11E-04	8.40E-08	1.11E-04	3.8E-08	1.2E-07	9.2E-08	7.9E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.3E-08
299 UCART1	479601.5	3774713.98	479601.5, 3774713.98	0.01189	0.00701	1.18E-04	8.75E-08	1.18E-04	4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	1.6E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.6E-08
300 UCART1	479651.5	3774713.98	479651.5, 3774713.98	0.01271	0.00732	1.26E-04	9.13E-08	1.26E-04	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.1E-08	1.7E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-08
301 UCART1	479701.5	3774713.98	479701.5, 3774713.98	0.01364	0.00765	1.36E-04	9.55E-08	1.36E-04	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	1.8E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.1E-08
302 UCART1	479751.5	3774713.98	479751.5, 3774713.98	0.01469	0.008	1.46E-04	9.98E-08	1.46E-04	5.1E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	2.0E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.4E-08
303 UCART1	479801.5	3774713.98	479801.5, 3774713.98	0.01589	0.00839	1.58E-04	1.05E-07	1.58E-04	5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.8E-08
304 UCART1	479851.5	3774713.98	479851.5, 3774713.98	0.01728	0.00882	1.72E-04	1.10E-07	1.72E-04	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	2.3E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.2E-08
305 UCART1	479901.5	3774713.98	479901.5, 3774713.98	0.01889	0.00928	1.88E-04	1.16E-07	1.88E-04	6.5E-08	2.0E-07	1.6E-07	1.3E-07	6.0E-08	2.6E-09	5.4E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.7E-08
306 UCART1	479951.5	3774713.98	479951.5, 3774713.98	0.02076	0.00981	2.06E-04	1.22E-07	2.07E-04	7.1E-08	2.2E-07	1.7E-07	1.5E-07	6.6E-08	2.8E-09	5.9E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.2E-08
307 UCART1	480001.5	3774713.98	480001.5, 3774713.98	0.02294	0.01038	2.28E-04	1.30E-07	2.28E-04	7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	3.1E-09	6.6E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.9E-08
308 UCART1	480051.5	3774713.98	480051.5, 3774713.98	0.02551	0.01102	2.54E-04	1.37E-07	2.54E-04	8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	3.5E-09	7.3E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.6E-08
309 UCART1	480101.5	3774713.98	480101.5, 3774713.98	0.02851	0.01174	2.83E-04	1.46E-07	2.84E-04	9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	3.9E-09	8.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.5E-08
310 UCART1	480151.5	3774713.98	480151.5, 3774713.98	0.03203	0.01254	3.18E-04	1.56E-07	3.19E-04	1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	4.3E-09	9.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.6E-08
311 UCART1	480201.5	3774713.98	480201.5, 3774713.98	0.03608	0.01345	3.59E-04	1.68E-07	3.59E-04	1.2E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	4.9E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-07
312 UCART1	480251.5	3774713.98	480251.5, 3774713.98	0.04066	0.01448	4.04E-04	1.81E-07	4.04E-04	1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	5.5E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.2E-07
313 UCART1	480301.5	3774713.98	480301.5, 3774713.98	0.04564	0.01564	4.54E-04	1.95E-07	4.54E-04	1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.5E-07	6.2E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-07
314 UCART1	480351.5	3774713.98	480351.5, 3774713.98	0.05075	0.01696	5.05E-04	2.12E-07	5.05E-04	1.7E-07	5.3E-07	4.2E-07	3.6E-07	1.6E-07	6.9E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.5E-07
315 UCART1	480401.5	3774713.98	480401.5, 3774713.98	0.05549	0.01845	5.52E-04	2.30E-07	5.52E-04	1.9E-07	5.8E-07	4.6E-07	3.9E-07	1.8E-07	7.5E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.7E-07
316 UCART1	480451.5	3774713.98	480451.5, 3774713.98	0.05938	0.02011	5.90E-04	2.51E-07	5.91E-04	2.0E-07	6.2E-07	4.9E-07	4.2E-07	1.9E-07	8.0E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.8E-07
317 UCART1	480501.5	3774713.98	480501.5, 3774713.98	0.06209	0.02192	6.17E-04	2.73E-07	6.18E-04	2.1E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	8.4E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.9E-07
318 UCART1	480551.5	3774713.98	480551.5, 3774713.98	0.06323	0.02383	6.28E-04	2.97E-07	6.29E-04	2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	8.6E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.9E-07
319 UCART1	480601.5	3774713.98	480601.5, 3774713.98	0.06251	0.02574	6.22E-04	3.21E-07	6.22E-04	2.2E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	8.5E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.9E-07
320 UCART1	480651.5	3774713.98	480651.5, 3774713.98	0.06046	0.02748	6.01E-04	3.43E-07	6.01E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	8.2E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.8E-07
321 UCART1	480701.5	3774713.98	480701.5, 3774713.98	0.0568	0.02884	5.65E-04	3.60E-07	5.65E-04	2.0E-07	5.9E-07	4.7E-07	4.0E-07	1.8E-07	7.7E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.7E-07
322 UCART1	480751.5	3774713.98	480751.5, 3774713.98	0.05272	0.02981	5.24E-04	3.72E-07	5.25E-04	1.8E-07	5.5E-07	4.3E-07	3.7E-07	1.7E-07	7.1E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.6E-07
323 UCART1	480801.5	3774713.98	480801.5, 3774713.98	0.04807	0.03026	4.78E-04	3.78E-07	4.78E-04	1.7E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	6.5E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-07
324 UCART1	480851.5	3774713.98	480851.5, 3774713.98	0.04343	0.03031	4.32E-04	3.78E-07	4.32E-04	1.5E-07	4.5E-07	3.6E-07	3.1E-07	1.4E-07	5.9E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.3E-07
325 UCART1	480901.5	3774713.98	480901.5, 3774713.98	0.039	0.03005	3.88E-04	3.75E-07	3.88E-04	1.3E-07	4.1E-07	3.2E-07	2.8E-07	1.2E-07	5.3E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.2E-07
326 UCART1	480951.5	3774713.98	480951.5, 3774713.98	0.03513	0.02969	3.49E-04	3.70E-07	3.50E-04	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	4.8E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-07
327 UCART1	481001.5	3774713.98	481001.5, 3774713.98	0.03163	0.02923	3.14E-04	3.65E-07	3.15E-04	1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	4.3E-09	9.0E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.5E-08
328 UCART1	481051.5	3774713.98	481051.5, 3774713.98	0.02858	0.02872	2.84E-04	3.58E-07	2.85E-04	9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	3.9E-09	8.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.6E-08
329 UCART1	481101.5	3774713.98	481101.5, 3774713.98	0.02599	0.02817	2.58E-04	3.51E-07	2.59E-04	9.0E-08	2.7E-07	2.1E-07	1.8E-07	8.3E-08	3.5E-09	7.4E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.8E-08
330 UCART1	481151.5	3774713.98	481151.5, 3774713.98	0.02369	0.02758	2.36E-04	3.44E-07	2.36E-04	8.2E-08	2.5E-07	1.9E-07	1.7E-07	7.6E-08	3.2E-09	6.8E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.1E-08
331 UCART1	481201.5	3774713.98	481201.5, 3774713.98	0.02178	0.02701	2.17E-04	3.37E-07	2.17E-04	7.5E-08	2.3E-07	1.8E-07	1.5E-07	7.0E-08	2.9E-09	6.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.5E-08
332 UCART1	481251.5	3774713.98	481251.5, 3774713.98	0.02003	0.02634	1.99E-04	3.29E-07	1.99E-04	6.9E-08	2.1E-07	1.6E-07	1.4E-07	6.4E-08	2.7E-09	5.7E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.0E-08
333 UCART1	481301.5	3774713.98	481301.5, 3774713.98	0.01855	0.02566	1.84E-04	3.20E-07	1.85E-04	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	2.5E-09	5.3E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.6E-08
334 UCART1	481351.5	3774713.98	481351.5, 3774713.98	0.01718	0.02486	1.71E-04	3.10E-07	1.71E-04	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	2.3E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.2E-08
335 UCART1	481401.5	3774713.98	481401.5, 3774713.98	0.01596	0.02399	1.59E-04	2.99E-07	1.59E-04	5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	2.2E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.8E-08
336 UCART1	481451.5	3774713.98	481451.5, 3774713.98	0.01494	0.02309	1.49E-04	2.88E-07	1.49E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.5E-08
337 UCART1	481501.5	3774713.98	481501.5, 3774713.98	0.01396	0.02204	1.39E-04	2.75E-07	1.39E-04	4.8E-08	1.5E-07	1.1E-07	9.9E-08	4.5E-08	1.9E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-08
338 UCART1	479301.5	3774763.98	479301.5, 3774763.98	0.00832	0.00553	8.27E-05	6.90E-08	8.28E-05	2.9E-08	8.7E-08	6.8E-08	5.9E-08	2.7E-08	1.1E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.5E-08
339 UCART1	479351.5	3774763.98	479351.5, 3774763.98	0.00874	0.00572	8.69E-05	7.14E-08	8.70E-05	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.6E-08
340 UCART1	479401.5	3774763.98	479401.5, 3774763.98	0.00919	0.00592	9.14E-05	7.39E-08	9.14E-05	3.2E-08	9.6E-08	7.6E-08	6.5E-08	2.9E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.8E-08
341 UCART1	479451.5	3774763.98	479451.5, 3774763.98	0.00969	0.00614	9.63E-05	7.66E-08	9.64E-05	3.3E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.9E-08
342 UCART1	479501.5	3774763.98	479501.5, 3774763.98	0.01024	0.00637	1.02E-04	7.95E-08	1.02E-04	3.5E-08	1.1E-07	8.4E-08	7.3E-08	3.3E-08	1.4E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.1E-08
343 UCART1	479551.5	3774763.98	479551.5, 3774763.98	0.01084	0.00661	1.08E-04	8.25E-08	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	1.5E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.2E-08
344 UCART1	479601.5	3774763.98	479601.5, 3774763.98	0.01152	0.00688	1.15E-04	8.58E-08	1.15E-04	4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	1.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.5E-08
345 UCART1	479651.5	3774763.98	479651.5, 3774763.98	0.01227	0.00716	1.22E-04	8.93E-08	1.22E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.7E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.7E-08
346 UCART1	479701.5	3774763.98	479701.5, 3774763.98	0.01311	0.00747	1.30E-04	9.32E-08	1.30E-04	4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	1.8E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.9E-08
347 UCART1	479751.5	3774763.98	479751.5, 3774763.98	0.01406	0.00781	1.40E-04	9.74E-08	1.40E-04	4.8E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	1.9E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.2E-08
348 UCART1	479801.5	3774763.98	479801.5, 3774763.98	0.01515	0.00817	1.51E-04	1.02E-07	1.51E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.5E-08
349 UCART1	479851.5	3774763.98	479851.5, 3774763.98	0.01637	0.00857	1.63E-04	1.07E-07	1.63E-04	5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	2.2E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.9E-08
350 UCART1	479901.5	3774763.98	479901.5, 3774763.98	0.01777	0.00899	1.77E-04	1.12E-07	1.77E-04	6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.7E-08	2.4E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.3E-08
351 UCART1	479951.5	3774763.98	479951.5, 3774763.98	0.01939	0.00947	1.93E-04	1.18E-07	1.93E-04	6.7E-08	2.0E-07	1.6E-07	1.4E-07	6.2E-08	2.6E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.8E-08
352 UCART1	480001.5	3774763.98	480001.5, 3774763.98	0.02124	0.00999	2.11E-04	1.25E-07	2.11E-04	7.3E-08	2.2E-07	1.7E-07	1.5E-07	6.8E-08	2.9E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.4E-08
353 UCART1	480051.5	3774763.98	480051.5, 3774763.98	0.02337	0.01057	2.32E-04	1.32E-07	2.32E-04	8.0E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	3.2E-09	6.7E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.0E-08
354 UCART1	480101.5	3774763.98	480101.5, 3774763.98	0.02582	0.01121	2.57E-04	1.40E-07	2.57E-04	8.9E-08	2.7E-07	2.1E-07	1.8E-07	8.3E-08	3.5E-09	7.4E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.7E-08
355 UCART1	480151.5	3774763.98	480151.5, 3774763.98	0.0286	0.01193	2.84E-04	1.49E-07	2.85E-04	9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	3.9E-09	8.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.6E-08
356 UCART1	480201.5	3774763.98	480201.5, 3774763.98	0.03173	0.01272	3.15E-04	1.59E-07	3.16E-04	1.1E-07	3.3E-07	2.6E-07	2.3E-07	1.0E-07	4.3E-09	9.1E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.5E-08
357 UCART1	480251.5	3774763.98	480251.5, 3774763.98	0.03514	0.01361	3.49E-04	1.70E-07	3.50E-04	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	4.8E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-07
358 UCART1	480301.5	3774763.98	480301.5, 3774763.98	0.03874	0.0146	3.85E-04	1.82E-07	3.85E-04	1.3E-07	4.0E-07	3.2E-07	2.8E-07	1.2E-07	5.2E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.2E-07
359 UCART1	480351.5	3774763.98	480351.5, 3774763.98	0.04225	0.0157	4.20E-04	1.96E-07	4.20E-04	1.5E-07	4.4E-07	3.5E-07	3.0E-07	1.4E-07	5.7E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.3E-07
360 UCART1	480401.5	3774763.98	480401.5, 3774763.98	0.04552	0.01692	4.53E-04	2.11E-07	4.53E-04	1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.5E-07	6.2E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-07
361 UCART1	480451.5	3774763.98	480451.5, 3774763.98	0.04809	0.01825	4.78E-04	2.28E-07	4.78E-04	1.7E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	6.5E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-07
362 UCART1	480501.5	3774763.98	480501.5, 3774763.98	0.04985	0.01966	4.96E-04	2.45E-07	4.96E-04	1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	6.7E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.5E-07
363 UCART1	480551.5	3774763.98	480551.5, 3774763.98	0.05036	0.02111	5.01E-04	2.63E-07	5.01E-04	1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	6.8E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.5E-07
364 UCART1	480601.5	3774763.98	480601.5, 3774763.98	0.05001	0.02252	4.97E-04	2.81E-07	4.98E-04	1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	6.8E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.5E-07
365 UCART1	480651.5	3774763.98	480651.5, 3774763.98	0.04834	0.02376	4.81E-04	2.96E-07	4.81E-04	1.7E-07	5.0E-07	4.0E-07	3.4E-07	1.5E-07	6.5E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-07
366 UCART1	480701.5	3774763.98	480701.5, 3774763.98	0.04613	0.02481	4.59E-04	3.10E-07	4.59E-04	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	6.2E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-07
367 UCART1	480751.5	3774763.98	480751.5, 3774763.98	0.04315	0.02551	4.29E-04	3.18E-07	4.29E-04	1.5E-07	4.5E-07	3.5E-07	3.1E-07	1.4E-07	5.8E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.3E-07
368 UCART1	480801.5	3774763.98	480801.5, 3774763.98	0.03999	0.02595	3

				Concentration (AVERAGE CONC) [ug/m³	Concentration (AVERAGE CONC) [ug/m^3]		Residential Dose					Risk by Age Group					
Discrete Receptor ID	X	Y	X, Y	Onsite	Offsite	Onsite	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
431 UCART1	479451.5	3774863.98	479451.5, 3774863.98	0.00918	0.00593	9.13E-05	7.40E-08	9.13E-05	3.2E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
432 UCART1	479501.5	3774863.98	479501.5, 3774863.98	0.00965	0.00614	9.59E-05	7.66E-08	9.60E-05	3.3E-08	1.0E-07	7.9E-08	6.9E-08	3.1E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
433 UCART1	479551.5	3774863.98	479551.5, 3774863.98	0.01017	0.00636	1.01E-04	7.94E-08	1.01E-04	3.5E-08	1.1E-07	8.4E-08	7.2E-08	3.3E-08	1.4E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
434 UCART1	479601.5	3774863.98	479601.5, 3774863.98	0.01074	0.00659	1.07E-04	8.22E-08	1.07E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.5E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
435 UCART1	479651.5	3774863.98	479651.5, 3774863.98	0.01136	0.00684	1.13E-04	8.53E-08	1.13E-04	3.9E-08	1.2E-07	9.3E-08	8.1E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
436 UCART1	479701.5	3774863.98	479701.5, 3774863.98	0.01206	0.00711	1.20E-04	8.87E-08	1.20E-04	4.2E-08	1.3E-07	9.9E-08	8.6E-08	3.9E-08	1.6E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
437 UCART1	479751.5	3774863.98	479751.5, 3774863.98	0.01282	0.0074	1.27E-04	9.23E-08	1.28E-04	4.4E-08	1.3E-07	1.1E-07	9.1E-08	4.1E-08	1.7E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
438 UCART1	479801.5	3774863.98	479801.5, 3774863.98	0.01368	0.00772	1.36E-04	9.63E-08	1.36E-04	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	1.9E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
439 UCART1	479851.5	3774863.98	479851.5, 3774863.98	0.01463	0.00805	1.45E-04	1.00E-07	1.46E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	2.0E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
440 UCART1	479901.5	3774863.98	479901.5, 3774863.98	0.0157	0.00842	1.56E-04	1.05E-07	1.56E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
441 UCART1	479951.5	3774863.98	479951.5, 3774863.98	0.0169	0.00881	1.68E-04	1.10E-07	1.68E-04	5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	2.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.1E-08
442 UCART1	480001.5	3774863.98	480001.5, 3774863.98	0.01823	0.00924	1.81E-04	1.15E-07	1.81E-04	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	2.5E-09	5.2E-08	0.0E+00	0.0E+00	0.0E+00	5.5E-08
443 UCART1	480051.5	3774863.98	480051.5, 3774863.98	0.01972	0.00971	1.96E-04	1.21E-07	1.96E-04	6.8E-08	2.1E-07	1.6E-07	1.4E-07	6.3E-08	2.7E-09	5.6E-08	0.0E+00	0.0E+00	0.0E+00	5.9E-08
444 UCART1	480101.5	3774863.98	480101.5, 3774863.98	0.02136	0.01022	2.12E-04	1.28E-07	2.13E-04	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.8E-08	2.9E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
445 UCART1	480151.5	3774863.98	480151.5, 3774863.98	0.02315	0.01079	2.30E-04	1.35E-07	2.30E-04	8.0E-08	2.4E-07	1.9E-07	1.6E-07	7.4E-08	3.1E-09	6.6E-08	0.0E+00	0.0E+00	0.0E+00	6.9E-08
446 UCART1	480201.5	3774863.98	480201.5, 3774863.98	0.02506	0.0114	2.49E-04	1.42E-07	2.49E-04	8.6E-08	2.6E-07	2.1E-07	1.8E-07	8.0E-08	3.4E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	7.5E-08
447 UCART1	480251.5	3774863.98	480251.5, 3774863.98	0.02706	0.01207	2.69E-04	1.51E-07	2.69E-04	9.3E-08	2.8E-07	2.2E-07	1.9E-07	8.6E-08	3.7E-09	7.7E-08	0.0E+00	0.0E+00	0.0E+00	8.1E-08
448 UCART1	480301.5	3774863.98	480301.5, 3774863.98	0.02904	0.01279	2.89E-04	1.60E-07	2.89E-04	1.0E-07	3.0E-07	2.4E-07	2.1E-07	9.3E-08	3.9E-09	8.3E-08	0.0E+00	0.0E+00	0.0E+00	8.7E-08
449 UCART1	480351.5	3774863.98	480351.5, 3774863.98	0.03089	0.01358	3.07E-04	1.69E-07	3.07E-04	1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.9E-08	4.2E-09	8.8E-08	0.0E+00	0.0E+00	0.0E+00	9.3E-08
450 UCART1	480401.5	3774863.98	480401.5, 3774863.98	0.03252	0.01442	3.23E-04	1.80E-07	3.24E-04	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	4.4E-09	9.3E-08	0.0E+00	0.0E+00	0.0E+00	9.7E-08
451 UCART1	480451.5	3774863.98	480451.5, 3774863.98	0.03375	0.0153	3.36E-04	1.91E-07	3.36E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	4.6E-09	9.7E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
452 UCART1	480501.5	3774863.98	480501.5, 3774863.98	0.03455	0.0162	3.44E-04	2.02E-07	3.44E-04	1.2E-07	3.6E-07	2.8E-07	2.5E-07	1.1E-07	4.7E-09	9.9E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
453 UCART1	480551.5	3774863.98	480551.5, 3774863.98	0.03477	0.01709	3.46E-04	2.13E-07	3.46E-04	1.2E-07	3.6E-07	2.9E-07	2.5E-07	1.1E-07	4.7E-09	9.9E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
454 UCART1	480601.5	3774863.98	480601.5, 3774863.98	0.03438	0.01792	3.42E-04	2.24E-07	3.42E-04	1.2E-07	3.6E-07	2.8E-07	2.4E-07	1.1E-07	4.7E-09	9.8E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
455 UCART1	480651.5	3774863.98	480651.5, 3774863.98	0.03358	0.01866	3.34E-04	2.33E-07	3.34E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	4.5E-09	9.6E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
456 UCART1	480701.5	3774863.98	480701.5, 3774863.98	0.03214	0.01923	3.20E-04	2.40E-07	3.20E-04	1.1E-07	3.3E-07	2.6E-07	2.3E-07	1.0E-07	4.3E-09	9.2E-08	0.0E+00	0.0E+00	0.0E+00	9.6E-08
457 UCART1	480751.5	3774863.98	480751.5, 3774863.98	0.03083	0.01975	3.07E-04	2.46E-07	3.07E-04	1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.9E-08	4.2E-09	8.8E-08	0.0E+00	0.0E+00	0.0E+00	9.2E-08
458 UCART1	480801.5	3774863.98	480801.5, 3774863.98	0.02927	0.02012	2.91E-04	2.51E-07	2.91E-04	1.0E-07	3.0E-07	2.4E-07	2.1E-07	9.4E-08	4.0E-09	8.4E-08	0.0E+00	0.0E+00	0.0E+00	8.8E-08
459 UCART1	480851.5	3774863.98	480851.5, 3774863.98	0.02741	0.0203	2.73E-04	2.53E-07	2.73E-04	9.4E-08	2.9E-07	2.3E-07	1.9E-07	8.8E-08	3.7E-09	7.8E-08	0.0E+00	0.0E+00	0.0E+00	8.2E-08
460 UCART1	480901.5	3774863.98	480901.5, 3774863.98	0.02564	0.02038	2.55E-04	2.54E-07	2.55E-04	8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	3.5E-09	7.3E-08	0.0E+00	0.0E+00	0.0E+00	7.7E-08
461 UCART1	480951.5	3774863.98	480951.5, 3774863.98	0.02375	0.02033	2.36E-04	2.54E-07	2.36E-04	8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	3.2E-09	6.8E-08	0.0E+00	0.0E+00	0.0E+00	7.1E-08
462 UCART1	481001.5	3774863.98	481001.5, 3774863.98	0.02207	0.02018	2.19E-04	2.52E-07	2.20E-04	7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	3.0E-09	6.3E-08	0.0E+00	0.0E+00	0.0E+00	6.6E-08
463 UCART1	481051.5	3774863.98	481051.5, 3774863.98	0.0205	0.01999	2.04E-04	2.49E-07	2.04E-04	7.1E-08	2.1E-07	1.7E-07	1.5E-07	6.6E-08	2.8E-09	5.9E-08	0.0E+00	0.0E+00	0.0E+00	6.1E-08
464 UCART1	481101.5	3774863.98	481101.5, 3774863.98	0.01909	0.01975	1.90E-04	2.46E-07	1.90E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
465 UCART1	481151.5	3774863.98	481151.5, 3774863.98	0.01777	0.01947	1.77E-04	2.43E-07	1.77E-04	6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.7E-08	2.4E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
466 UCART1	481201.5	3774863.98	481201.5, 3774863.98	0.01663	0.01916	1.65E-04	2.39E-07	1.66E-04	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	2.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.0E-08
467 UCART1	481251.5	3774863.98	481251.5, 3774863.98	0.01548	0.01875	1.54E-04	2.34E-07	1.54E-04	5.3E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
468 UCART1	481301.5	3774863.98	481301.5, 3774863.98	0.01442	0.0183	1.43E-04	2.28E-07	1.44E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	2.0E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
469 UCART1	481351.5	3774863.98	481351.5, 3774863.98	0.01348	0.0178	1.34E-04	2.22E-07	1.34E-04	4.6E-08	1.4E-07	1.1E-07	9.6E-08	4.3E-08	1.8E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
470 UCART1	481401.5	3774863.98	481401.5, 3774863.98	0.01264	0.01725	1.26E-04	2.15E-07	1.26E-04	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.0E-08	1.7E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
471 UCART1	481451.5	3774863.98	481451.5, 3774863.98	0.0119	0.01666	1.18E-04	2.08E-07	1.19E-04	4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	1.6E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
472 UCART1	481501.5	3774863.98	481501.5, 3774863.98	0.01122	0.01604	1.12E-04	2.00E-07	1.12E-04	3.9E-08	1.2E-07	9.2E-08	8.0E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
473 UCART1	479301.5	3774913.98	479301.5, 3774913.98	0.0078	0.00529	7.76E-05	6.60E-08	7.76E-05	2.7E-08	8.1E-08	6.4E-08	5.5E-08	2.5E-08	1.1E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
474 UCART1	479351.5	3774913.98	479351.5, 3774913.98	0.00814	0.00546	8.09E-05	6.81E-08	8.10E-05	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
475 UCART1	479401.5	3774913.98	479401.5, 3774913.98	0.00851	0.00563	8.46E-05	7.02E-08	8.47E-05	2.9E-08	8.9E-08	7.0E-08	6.0E-08	2.7E-08	1.2E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
476 UCART1	479451.5	3774913.98	479451.5, 3774913.98	0.00891	0.00582	8.86E-05	7.26E-08	8.87E-05	3.1E-08	9.3E-08	7.3E-08	6.3E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
477 UCART1	479501.5	3774913.98	479501.5, 3774913.98	0.00935	0.00601	9.30E-05	7.50E-08	9.30E-05	3.2E-08	9.7E-08	7.7E-08	6.6E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
478 UCART1	479551.5	3774913.98	479551.5, 3774913.98	0.00983	0.00622	9.77E-05	7.76E-08	9.78E-05	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.1E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
479 UCART1	479601.5	3774913.98	479601.5, 3774913.98	0.01034	0.00644	1.03E-04	8.04E-08	1.03E-04	3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
480 UCART1	479651.5	3774913.98	479651.5, 3774913.98	0.01091	0.00667	1.08E-04	8.32E-08	1.09E-04	3.8E-08	1.1E-07	9.0E-08	7.8E-08	3.5E-08	1.5E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
481 UCART1	479701.5	3774913.98	479701.5, 3774913.98	0.01154	0.00693	1.15E-04	8.65E-08	1.15E-04	4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	1.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
482 UCART1	479751.5	3774913.98	479751.5, 3774913.98	0.01222	0.0072	1.22E-04	8.98E-08	1.22E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.7E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
483 UCART1	479801.5	3774913.98	479801.5, 3774913.98	0.01299	0.00749	1.29E-04	9.35E-08	1.29E-04	4.5E-08	1.4E-07	1.1E-07	9.2E-08	4.2E-08	1.8E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
484 UCART1	479851.5	3774913.98	479851.5, 3774913.98	0.01383	0.0078	1.38E-04	9.73E-08	1.38E-04	4.8E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	1.9E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
485 UCART1	479901.5	3774913.98	479901.5, 3774913.98	0.01476	0.00813	1.47E-04	1.01E-07	1.47E-04	5.1E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	2.0E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
486 UCART1	479951.5	3774913.98	479951.5, 3774913.98	0.01579	0.00849	1.57E-04	1.06E-07	1.57E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
487 UCART1	480001.5	3774913.98	480001.5, 3774913.98	0.01693	0.00889	1.68E-04	1.11E-07	1.68E-04	5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	2.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.1E-08
488 UCART1	480051.5	3774913.98	480051.5, 3774913.98	0.01818	0.00931	1.81E-04	1.16E-07	1.81E-04	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	2.5E-09	5.2E-08	0.0E+00	0.0E+00	0.0E+00	5.4E-08
489 UCART1	480101.5	3774913.98	480101.5, 3774913.98	0.01953	0.00977	1.94E-04	1.22E-07	1.94E-04	6.7E-08	2.0E-07	1.6E-07	1.4E-07	6.2E-08	2.6E-09	5.6E-08	0.0E+00	0.0E+00	0.0E+00	5.8E-08
490 UCART1	480151.5	3774913.98	480151.5, 3774913.98	0.02099	0.01027	2.09E-04	1.28E-07	2.09E-04	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	2.8E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.3E-08
491 UCART1	480201.5	3774913.98	480201.5, 3774913.98	0.02251	0.01081	2.24E-04	1.35E-07	2.24E-04	7.8E-08	2.3E-07	1.8E-07	1.6E-07	7.2E-08	3.0E-09	6.4E-08	0.0E+00	0.0E+00	0.0E+00	6.7E-08
492 UCART1	480251.5	3774913.98	480251.5, 3774913.98	0.02406	0.01139	2.39E-04	1.42E-07	2.39E-04	8.3E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	3.3E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.2E-08
493 UCART1	480301.5	3774913.98	480301.5, 3774913.98	0.02558	0.01202	2.54E-04	1.50E-07	2.54E-04	8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	3.5E-09	7.3E-08	0.0E+00	0.0E+00	0.0E+00	7.7E-08
494 UCART1	480351.5	3774913.98	480351.5, 3774913.98	0.02696	0.01269	2.68E-04	1.58E-07	2.68E-04	9.3E-08	2.8E-07	2.2E-07	1.9E-07	8.6E-08	3.6E-09	7.7E-08	0.0E+00	0.0E+00	0.0E+00	8.1E-08
495 UCART1	480401.5	3774913.98	480401.5, 3774913.98	0.02811	0.0134	2.79E-04	1.67E-07	2.80E-04	9.7E-08	2.9E-07	2.3E-07	2.0E-07	9.0E-08	3.8E-09	8.0E-08	0.0E+00	0.0E+00	0.0E+00	8.4E-08
496 UCART1	480451.5	3774913.98	480451.5, 3774913.98	0.02905	0.01412	2.89E-04	1.76E-07	2.89E-04	1.0E-07	3.0E-07	2.4E-07	2.1E-07	9.3E-08	3.9E-09	8.3E-08	0.0E+00	0.0E+00	0.0E+00	8.7E-08
497 UCART1	480501.5	3774913.98	480501.5, 3774913.98	0.02955	0.01486	2.94E-04	1.85E-07	2.94E-04	1.0E-07	3.1E-07	2.4E-07	2.1E-07	9.4E-08	4.0E-09	8.5E-08	0.0E+00	0.0E+00	0.0E+00	8.9E-08
498 UCART1	480551.5	3774913.98	480551.5, 3774913.98	0.02975	0.01558	2.96E-04	1.94E-07	2.96E-04	1.0E-07	3.1E-07	2.4E-07	2.1E-07	9.5E-08	4.0E-09	8.5E-08	0.0E+00	0.0E+00	0.0E+00	8.9E-08
499 UCART1	480601.5	3774913.98	480601.5, 3774913.98	0.02944	0.01624	2.93E-04	2.03E-07	2.93E-04	1.0E-07	3.1E-07	2.4E-07	2.1E-07	9.4E-08	4.0E-09	8.4E-08	0.0E+00	0.0E+00	0.0E+00	8.8E-08
500 UCART1	480651.5	3774913.98	480651.5, 3774913.98	0.02877	0.01682	2.86E-04	2.10E-07	2.86E-04	9.9E-08	3.0E-07	2.4E-07	2.0E-07	9.2E-08	3.9E-09	8.2E-08	0.0E+00	0.0E+00	0.0E+00	8.6E-08
501 UCART1	480701.5	3774913.98	480701.5, 3774913.98	0.02774	0.0173	2.76E-04	2.16E-07	2.76E-04	9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	3.8E-09	7.9E-08	0.0E+00	0.0E+00	0.0E+00	8.3E-08
502 UCART1	480751.5	3774913.98	480751.5, 3774913.98	0.02669	0.01771	2.65E-04	2.21E-07	2.66E-04	9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	3.6E-09	7.6E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
503 UCART1	480801.5	3774913.98	480801.5, 3774913.98	0.02548	0.01802	2.53E-04	2.25E-07	2.54E-04	8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.1E-08	3.4E-09	7.3E-08	0.0E+00	0.0E+00	0.0E+00	7.6E-08
504 UCART1	480851.5	3774913.98	480851.5, 3774913.98	0.02416	0.01822	2.40E-04	2.27E-07	2.40E-04	8.3E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	3.3E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.2E-08
505 UCART1	480901.5	3774913.98	480901.5, 3774913.98	0.02272	0.0183	2.26E-04	2.28E-07	2.26E-04	7.8E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	3.1E-09	6.5E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
506 UCART1	480951.5	3774913.98	480951.5, 3774913.98	0.02129	0.0183	2.12E-04	2.28E-07	2.12E-04	7.3E-08	2.2E-07	1.7E-07	1.5E-07	6.8E-08	2.9E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
507 UCART1	481001.5	3774913.98	481001.5, 3774913.98	0.01992	0.0182	1.98E-04	2.27E-07	1.98E-04	6.9E-08	2.1E-07	1.6E-07	1.4E-07	6.4E-08	2.7E-09	5.7E-08	0.0E+00	0.0E+00	0.0E+00	6.0E-08
508 UCART1	481051.5	3774913.98	481051.5, 3774913.98	0.01863	0.01805	1.85E-04	2.25E-07	1.85E-04	6.4E-08	1.9E-07	1.5E-07	1.3E-07	6.0E-08	2.5E-09	5.3E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
509 UCART1	481101.5	3774913.98	481101.5, 3774913.98	0.0174	0.01783	1.73E-04	2.22E-07	1.73E-04	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.6E-08	2.4E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
510 UCART1	481151.5	3774913.98	481151.5, 3774913.98	0.01636	0.01763	1.63E-04	2.20E-07	1.63E-04	5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	2.2E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
511 UCART1	481201.5	3774913.98	481201.5, 3774913.98	0.01528	0.01733	1.52E-04	2.16E-07	1.52E-04	5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	2.1E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
512 UCART1	481251.5	3774913.98	481251.5, 3774913.98	0.01436	0.01702	1.43E-04	2.12E-07	1.43E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	1.9E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
513 UCART1	481301.5	3774913.98	481301.5, 3774913.98	0.01346	0.01664	1.34E-04	2.08E-07	1.34E-04	4.6E-08	1.4E-07	1.1E-07	9.6E-08	4.3E-08	1.8E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
514 UCART1	481351.5	3774913.98	481351.5, 3774913.98	0.01259	0.01619	1.25E-04	2.02E-07	1.25E-04	4.3E-08	1.3E-07	1.0E-07	9.0E-08	4.0E-08	1.7E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
515 UCART1	481401.5	3774913.98	481401.5, 3774913.98	0.0118	0.01568	1.17E-04	1.96E-07	1.18E-04	4.1E-08	1.2E-07	9.7E-08	8.4E-08	3.8E-08	1.6E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
516 UCART1	481451.5	3774913.98	481451.5, 3774913.98	0.01109	0.01514	1.10E-04	1.89E-07	1.10E-04	3.8E-08	1.2E-07	9.1E-08	7.9E-08	3.5E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
517 UCART1	481501.5	3774913.98	481501.5, 3774913.98	0.01049	0.01459	1.04E-04	1.82E-07	1.04E-04	3.6E-08	1.1E-07	8.6E-08	7.5E-08	3.4E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
518 UCART1	479301.5	3774963.98	479301.5, 3774963.98	0.0076	0.00521	7.56E-05	6.50E-08	7.56E-05	2.6E-08

				Concentration (AVERAGE CONC) [ug/m³		Concentration (AVERAGE CONC) [ug/m^3]			Residential Dose					Risk by Age Group					
Discrete Receptor ID	X	Y	X, Y	Onsite	Offsite	Onsite	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
577 UCART1	480851.5	3775063.98	480851.5, 3775063.98	0.01725	0.01379	1.72E-04	1.72E-07	1.72E-04	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	2.3E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
578 UCART1	480901.5	3775063.98	480901.5, 3775063.98	0.01651	0.01384	1.64E-04	1.73E-07	1.64E-04	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	2.2E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
579 UCART1	480951.5	3775063.98	480951.5, 3775063.98	0.01576	0.01385	1.57E-04	1.73E-07	1.57E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
580 UCART1	481001.5	3775063.98	481001.5, 3775063.98	0.01501	0.01382	1.49E-04	1.72E-07	1.49E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
581 UCART1	481051.5	3775063.98	481051.5, 3775063.98	0.01425	0.01375	1.42E-04	1.72E-07	1.42E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	1.9E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
582 UCART1	481101.5	3775063.98	481101.5, 3775063.98	0.01353	0.01364	1.35E-04	1.70E-07	1.35E-04	4.7E-08	1.4E-07	1.1E-07	9.6E-08	4.3E-08	1.8E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
583 UCART1	481151.5	3775063.98	481151.5, 3775063.98	0.01281	0.0135	1.27E-04	1.68E-07	1.28E-04	4.4E-08	1.3E-07	1.1E-07	9.1E-08	4.1E-08	1.7E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
584 UCART1	481201.5	3775063.98	481201.5, 3775063.98	0.01212	0.0133	1.21E-04	1.66E-07	1.21E-04	4.2E-08	1.3E-07	1.0E-07	8.6E-08	3.9E-08	1.6E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
585 UCART1	481251.5	3775063.98	481251.5, 3775063.98	0.01139	0.01301	1.13E-04	1.62E-07	1.13E-04	3.9E-08	1.2E-07	9.4E-08	8.1E-08	3.6E-08	1.5E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
586 UCART1	481301.5	3775063.98	481301.5, 3775063.98	0.01075	0.01271	1.07E-04	1.59E-07	1.07E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.5E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
587 UCART1	481351.5	3775063.98	481351.5, 3775063.98	0.01018	0.01238	1.01E-04	1.54E-07	1.01E-04	3.5E-08	1.1E-07	8.4E-08	7.2E-08	3.2E-08	1.4E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
588 UCART1	481401.5	3775063.98	481401.5, 3775063.98	0.00966	0.01203	9.60E-05	1.50E-07	9.62E-05	3.3E-08	1.0E-07	7.9E-08	6.9E-08	3.1E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
589 UCART1	481451.5	3775063.98	481451.5, 3775063.98	0.00925	0.01175	9.20E-05	1.47E-07	9.21E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	3.0E-08	1.3E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
590 UCART1	480801.5	3775113.98	480801.5, 3775113.98	0.01627	0.01263	1.62E-04	1.58E-07	1.62E-04	5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	2.2E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
591 UCART1	480851.5	3775113.98	480851.5, 3775113.98	0.01566	0.01271	1.56E-04	1.59E-07	1.56E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
592 UCART1	480901.5	3775113.98	480901.5, 3775113.98	0.01504	0.01275	1.50E-04	1.59E-07	1.50E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
593 UCART1	480951.5	3775113.98	480951.5, 3775113.98	0.01442	0.01278	1.43E-04	1.59E-07	1.44E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	2.0E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
594 UCART1	481001.5	3775113.98	481001.5, 3775113.98	0.01378	0.01275	1.37E-04	1.59E-07	1.37E-04	4.7E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	1.9E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
595 UCART1	481051.5	3775113.98	481051.5, 3775113.98	0.01312	0.01269	1.30E-04	1.58E-07	1.31E-04	4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	1.8E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
596 UCART1	481101.5	3775113.98	481101.5, 3775113.98	0.01245	0.01258	1.24E-04	1.57E-07	1.24E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	1.7E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
597 UCART1	481151.5	3775113.98	481151.5, 3775113.98	0.0118	0.01243	1.17E-04	1.55E-07	1.17E-04	4.1E-08	1.2E-07	9.7E-08	8.4E-08	3.8E-08	1.6E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
598 UCART1	481201.5	3775113.98	481201.5, 3775113.98	0.01119	0.01223	1.11E-04	1.53E-07	1.11E-04	3.9E-08	1.2E-07	9.2E-08	8.0E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
599 UCART1	481251.5	3775113.98	481251.5, 3775113.98	0.01059	0.01198	1.05E-04	1.49E-07	1.05E-04	3.7E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
600 UCART1	481301.5	3775113.98	481301.5, 3775113.98	0.01004	0.0117	9.98E-05	1.46E-07	1.00E-04	3.5E-08	1.0E-07	8.3E-08	7.1E-08	3.2E-08	1.4E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
601 UCART1	481351.5	3775113.98	481351.5, 3775113.98	0.00956	0.01143	9.51E-05	1.43E-07	9.52E-05	3.3E-08	9.9E-08	7.9E-08	6.8E-08	3.1E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
602 UCART1	481401.5	3775113.98	481401.5, 3775113.98	0.00911	0.01113	9.06E-05	1.39E-07	9.07E-05	3.1E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
603 UCART1	481451.5	3775113.98	481451.5, 3775113.98	0.00873	0.01087	8.68E-05	1.36E-07	8.69E-05	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
604 UCART1	480801.5	3775163.98	480801.5, 3775163.98	0.01483	0.01171	1.47E-04	1.46E-07	1.48E-04	5.1E-08	1.5E-07	1.2E-07	1.1E-07	4.7E-08	2.0E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
605 UCART1	480851.5	3775163.98	480851.5, 3775163.98	0.01433	0.01178	1.42E-04	1.47E-07	1.43E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	1.9E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
606 UCART1	480901.5	3775163.98	480901.5, 3775163.98	0.01378	0.01183	1.37E-04	1.48E-07	1.37E-04	4.7E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	1.9E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
607 UCART1	480951.5	3775163.98	480951.5, 3775163.98	0.01326	0.01184	1.32E-04	1.48E-07	1.32E-04	4.6E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	1.8E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
608 UCART1	481001.5	3775163.98	481001.5, 3775163.98	0.01269	0.01182	1.26E-04	1.47E-07	1.26E-04	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.1E-08	1.7E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
609 UCART1	481051.5	3775163.98	481051.5, 3775163.98	0.01209	0.01175	1.20E-04	1.47E-07	1.20E-04	4.2E-08	1.3E-07	9.9E-08	8.6E-08	3.9E-08	1.6E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
610 UCART1	481101.5	3775163.98	481101.5, 3775163.98	0.01149	0.01164	1.14E-04	1.45E-07	1.14E-04	4.0E-08	1.2E-07	9.4E-08	8.2E-08	3.7E-08	1.5E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
611 UCART1	481151.5	3775163.98	481151.5, 3775163.98	0.01089	0.01146	1.08E-04	1.43E-07	1.08E-04	3.8E-08	1.1E-07	9.0E-08	7.7E-08	3.5E-08	1.5E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
612 UCART1	481201.5	3775163.98	481201.5, 3775163.98	0.01039	0.01129	1.03E-04	1.41E-07	1.03E-04	3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
613 UCART1	481251.5	3775163.98	481251.5, 3775163.98	0.00987	0.01106	9.81E-05	1.38E-07	9.83E-05	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
614 UCART1	481301.5	3775163.98	481301.5, 3775163.98	0.00941	0.01083	9.36E-05	1.35E-07	9.37E-05	3.2E-08	9.8E-08	7.7E-08	6.7E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
615 UCART1	481351.5	3775163.98	481351.5, 3775163.98	0.009	0.01059	8.95E-05	1.32E-07	8.96E-05	3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
616 UCART1	481401.5	3775163.98	481401.5, 3775163.98	0.0086	0.01033	8.55E-05	1.29E-07	8.56E-05	3.0E-08	9.0E-08	7.1E-08	6.1E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
617 UCART1	481451.5	3775163.98	481451.5, 3775163.98	0.00825	0.01007	8.20E-05	1.26E-07	8.22E-05	2.8E-08	8.6E-08	6.8E-08	5.9E-08	2.6E-08	1.1E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
618 UCART1	480801.5	3775213.98	480801.5, 3775213.98	0.01358	0.0109	1.35E-04	1.36E-07	1.35E-04	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.3E-08	1.8E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
619 UCART1	480851.5	3775213.98	480851.5, 3775213.98	0.01314	0.01097	1.31E-04	1.37E-07	1.31E-04	4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	1.8E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
620 UCART1	480901.5	3775213.98	480901.5, 3775213.98	0.01268	0.01101	1.26E-04	1.37E-07	1.26E-04	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.1E-08	1.7E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
621 UCART1	480951.5	3775213.98	480951.5, 3775213.98	0.0122	0.01102	1.21E-04	1.37E-07	1.21E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.7E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
622 UCART1	481001.5	3775213.98	481001.5, 3775213.98	0.01171	0.011	1.16E-04	1.37E-07	1.17E-04	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	1.6E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
623 UCART1	481051.5	3775213.98	481051.5, 3775213.98	0.01121	0.01094	1.11E-04	1.36E-07	1.12E-04	3.9E-08	1.2E-07	9.2E-08	8.0E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
624 UCART1	481101.5	3775213.98	481101.5, 3775213.98	0.01065	0.0109	1.06E-04	1.35E-07	1.06E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
625 UCART1	481151.5	3775213.98	481151.5, 3775213.98	0.01015	0.01064	1.01E-04	1.33E-07	1.01E-04	3.5E-08	1.1E-07	8.3E-08	7.2E-08	3.2E-08	1.4E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
626 UCART1	481201.5	3775213.98	481201.5, 3775213.98	0.00969	0.01047	9.63E-05	1.31E-07	9.65E-05	3.3E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
627 UCART1	481251.5	3775213.98	481251.5, 3775213.98	0.00923	0.01024	9.18E-05	1.28E-07	9.19E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	3.0E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
628 UCART1	481301.5	3775213.98	481301.5, 3775213.98	0.00886	0.01006	8.81E-05	1.26E-07	8.82E-05	3.1E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
629 UCART1	481351.5	3775213.98	481351.5, 3775213.98	0.00849	0.00985	8.44E-05	1.23E-07	8.45E-05	2.9E-08	8.8E-08	7.0E-08	6.0E-08	2.7E-08	1.1E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
630 UCART1	481401.5	3775213.98	481401.5, 3775213.98	0.00812	0.00958	8.07E-05	1.20E-07	8.09E-05	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
631 UCART1	481451.5	3775213.98	481451.5, 3775213.98	0.00779	0.00932	7.75E-05	1.16E-07	7.76E-05	2.7E-08	8.1E-08	6.4E-08	5.5E-08	2.5E-08	1.1E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
632 UCART1	480801.5	3775263.98	480801.5, 3775263.98	0.01249	0.01019	1.24E-04	1.27E-07	1.24E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	1.7E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
633 UCART1	480851.5	3775263.98	480851.5, 3775263.98	0.0121	0.01025	1.20E-04	1.28E-07	1.20E-04	4.2E-08	1.3E-07	9.9E-08	8.6E-08	3.9E-08	1.6E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
634 UCART1	480901.5	3775263.98	480901.5, 3775263.98	0.01169	0.01028	1.16E-04	1.28E-07	1.16E-04	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	1.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
635 UCART1	480951.5	3775263.98	480951.5, 3775263.98	0.01124	0.01028	1.12E-04	1.28E-07	1.12E-04	3.9E-08	1.2E-07	9.2E-08	8.0E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
636 UCART1	481001.5	3775263.98	481001.5, 3775263.98	0.01085	0.01027	1.08E-04	1.28E-07	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	1.5E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
637 UCART1	481051.5	3775263.98	481051.5, 3775263.98	0.01035	0.01016	1.03E-04	1.27E-07	1.03E-04	3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
638 UCART1	481101.5	3775263.98	481101.5, 3775263.98	0.00989	0.01004	9.83E-05	1.25E-07	9.85E-05	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
639 UCART1	481151.5	3775263.98	481151.5, 3775263.98	0.00947	0.0099	9.42E-05	1.24E-07	9.43E-05	3.3E-08	9.9E-08	7.8E-08	6.7E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
640 UCART1	481201.5	3775263.98	481201.5, 3775263.98	0.00904	0.00971	8.99E-05	1.21E-07	9.00E-05	3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
641 UCART1	481251.5	3775263.98	481251.5, 3775263.98	0.00868	0.00954	8.63E-05	1.19E-07	8.64E-05	3.0E-08	9.0E-08	7.1E-08	6.2E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
642 UCART1	481301.5	3775263.98	481301.5, 3775263.98	0.00834	0.00936	8.29E-05	1.17E-07	8.30E-05	2.9E-08	8.7E-08	6.9E-08	5.9E-08	2.7E-08	1.1E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
643 UCART1	481351.5	3775263.98	481351.5, 3775263.98	0.00799	0.00913	7.94E-05	1.14E-07	7.96E-05	2.8E-08	8.3E-08	6.6E-08	5.7E-08	2.6E-08	1.1E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
644 UCART1	481401.5	3775263.98	481401.5, 3775263.98	0.0077	0.00893	7.66E-05	1.11E-07	7.67E-05	2.7E-08	8.0E-08	6.3E-08	5.5E-08	2.5E-08	1.0E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
645 UCART1	481451.5	3775263.98	481451.5, 3775263.98	0.00742	0.00873	7.38E-05	1.09E-07	7.39E-05	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	1.0E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
646 UCART1	480801.5	3775313.98	480801.5, 3775313.98	0.01157	0.00958	1.15E-04	1.20E-07	1.15E-04	4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	1.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
647 UCART1	480851.5	3775313.98	480851.5, 3775313.98	0.01122	0.00962	1.12E-04	1.20E-07	1.12E-04	3.9E-08	1.2E-07	9.2E-08	8.0E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
648 UCART1	480901.5	3775313.98	480901.5, 3775313.98	0.0108	0.00963	1.07E-04	1.20E-07	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.3E-08	1.4E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
649 UCART1	480951.5	3775313.98	480951.5, 3775313.98	0.0104	0.00961	1.03E-04	1.20E-07	1.04E-04	3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
650 UCART1	481001.5	3775313.98	481001.5, 3775313.98	0.00997	0.00954	9.91E-05	1.19E-07	9.92E-05	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	1.3E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
651 UCART1	481051.5	3775313.98	481051.5, 3775313.98	0.0096	0.00947	9.55E-05	1.18E-07	9.56E-05	3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
652 UCART1	481101.5	3775313.98	481101.5, 3775313.98	0.00921	0.00935	9.16E-05	1.17E-07	9.17E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	2.9E-08	1.2E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
653 UCART1	481151.5	3775313.98	481151.5, 3775313.98	0.00884	0.00921	8.79E-05	1.15E-07	8.80E-05	3.0E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	1.2E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
654 UCART1	481201.5	3775313.98	481201.5, 3775313.98	0.00851	0.00907	8.46E-05	1.13E-07	8.47E-05	2.9E-08	8.9E-08	7.0E-08	6.1E-08	2.7E-08	1.2E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
655 UCART1	481251.5	3775313.98	481251.5, 3775313.98	0.00816	0.00888	8.11E-05	1.11E-07	8.12E-05	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
656 UCART1	481301.5	3775313.98	481301.5, 3775313.98	0.00787	0.00872	7.82E-05	1.09E-07	7.84E-05	2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	1.1E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
657 UCART1	481351.5	3775313.98	481351.5, 3775313.98	0.00755	0.00849	7.51E-05	1.06E-07	7.52E-05	2.6E-08	7.9E-08	6.2E-08	5.4E-08	2.4E-08	1.0E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
658 UCART1	481401.5	3775313.98	481401.5, 3775313.98	0.00728	0.00831	7.24E-05	1.04E-07	7.25E-05	2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	9.9E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
659 UCART1	480801.5	3775363.98	480801.5, 3775363.98	0.01071	0.00901	1.06E-04	1.12E-07	1.07E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.4E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
660 UCART1	480851.5	3775363.98	480851.5, 3775363.98	0.01037	0.00905	1.03E-04	1.13E-07	1.03E-04	3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
661 UCART1	480901.5	3775363.98	480901.5, 3775363.98	0.01001	0.00904	9.95E-05	1.13E-07	9.96E-05	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	1.4E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
662 UCART1	480951.5	3775363.98	480951.5, 3775363.98	0.00961	0.00898	9.56E-05	1.12E-07	9.57E-05	3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
663 UCART1	481001.5	3775363.98	481001.5, 3775363.98	0.00929	0.00894	9.24E-05	1.12E-07	9.25E-05	3.2E-08	9.7E-08	7.6E-08	6.6E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
664 UCART1	481051.5	3775363.98	481051.5, 3775363.98	0.00896	0.00886	8.91E-05	1.11E-07	8.92E-05	3.1E-08

				Concentration (AVERAGE CONC) [ug/m³	Concentration (AVERAGE CONC) [ug/m^3]			Residential Dose					Risk by Age Group					
Discrete Receptor ID	X	Y	X, Y	Onsite	Offsite	Onsite	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
723 UCART1	481401.5	3775563.98	481401.5, 3775563.98	0.00576	0.00621	5.73E-05	7.75E-08	5.73E-05	2.0E-08	6.0E-08	4.7E-08	4.1E-08	1.8E-08	7.8E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
724 UCART2	479332.5	3774240.22	479332.46, 3774240.22	0.00934	0.00601	9.29E-05	7.50E-08	9.29E-05	3.2E-08	9.7E-08	7.7E-08	6.6E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
725 UCART2	479382.5	3774240.22	479382.46, 3774240.22	0.00992	0.00626	9.86E-05	7.81E-08	9.87E-05	3.4E-08	1.0E-07	8.1E-08	7.1E-08	3.2E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
726 UCART2	479432.5	3774240.22	479432.46, 3774240.22	0.01058	0.00654	1.05E-04	8.16E-08	1.05E-04	3.6E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
727 UCART2	479482.5	3774240.22	479482.46, 3774240.22	0.01132	0.00684	1.13E-04	8.53E-08	1.13E-04	3.9E-08	1.2E-07	9.3E-08	8.0E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
728 UCART2	479532.5	3774240.22	479532.46, 3774240.22	0.01218	0.00717	1.21E-04	8.95E-08	1.21E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.6E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
729 UCART2	479582.5	3774240.22	479582.46, 3774240.22	0.01316	0.00753	1.31E-04	9.40E-08	1.31E-04	4.5E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	1.8E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
730 UCART2	479632.5	3774240.22	479632.46, 3774240.22	0.0143	0.00793	1.42E-04	9.89E-08	1.42E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	1.9E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
731 UCART2	479682.5	3774240.22	479682.46, 3774240.22	0.01565	0.00838	1.56E-04	1.05E-07	1.56E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
732 UCART2	479732.5	3774240.22	479732.46, 3774240.22	0.01724	0.00887	1.71E-04	1.11E-07	1.72E-04	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	2.3E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
733 UCART2	479782.5	3774240.22	479782.46, 3774240.22	0.01916	0.00943	1.91E-04	1.18E-07	1.91E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
734 UCART2	479832.5	3774240.22	479832.46, 3774240.22	0.0215	0.01006	2.14E-04	1.26E-07	2.14E-04	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	2.9E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
735 UCART2	479882.5	3774240.22	479882.46, 3774240.22	0.02441	0.01078	2.43E-04	1.35E-07	2.43E-04	8.4E-08	2.5E-07	2.0E-07	1.7E-07	7.8E-08	3.3E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.3E-08
736 UCART2	479932.5	3774240.22	479932.46, 3774240.22	0.0281	0.01161	2.79E-04	1.45E-07	2.80E-04	9.7E-08	2.9E-07	2.3E-07	2.0E-07	9.0E-08	3.8E-09	8.0E-08	0.0E+00	0.0E+00	0.0E+00	8.4E-08
737 UCART2	479332.5	3774290.22	479332.46, 3774290.22	0.00936	0.00601	9.31E-05	7.50E-08	9.31E-05	3.2E-08	9.7E-08	7.7E-08	6.7E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
738 UCART2	479382.5	3774290.22	479382.46, 3774290.22	0.00995	0.00627	9.89E-05	7.82E-08	9.90E-05	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
739 UCART2	479432.5	3774290.22	479432.46, 3774290.22	0.01061	0.00654	1.05E-04	8.16E-08	1.06E-04	3.7E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
740 UCART2	479482.5	3774290.22	479482.46, 3774290.22	0.01135	0.00684	1.13E-04	8.53E-08	1.13E-04	3.9E-08	1.2E-07	9.3E-08	8.1E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
741 UCART2	479532.5	3774290.22	479532.46, 3774290.22	0.01221	0.00717	1.21E-04	8.95E-08	1.21E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.7E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
742 UCART2	479582.5	3774290.22	479582.46, 3774290.22	0.0132	0.00752	1.31E-04	9.38E-08	1.31E-04	4.5E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	1.8E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
743 UCART2	479632.5	3774290.22	479632.46, 3774290.22	0.01435	0.00792	1.43E-04	9.88E-08	1.43E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	1.9E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
744 UCART2	479682.5	3774290.22	479682.46, 3774290.22	0.01569	0.00836	1.56E-04	1.04E-07	1.56E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
745 UCART2	479732.5	3774290.22	479732.46, 3774290.22	0.01729	0.00885	1.72E-04	1.10E-07	1.72E-04	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	2.3E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
746 UCART2	479782.5	3774290.22	479782.46, 3774290.22	0.01922	0.0094	1.91E-04	1.17E-07	1.91E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.8E-08
747 UCART2	479832.5	3774290.22	479832.46, 3774290.22	0.02158	0.01002	2.15E-04	1.25E-07	2.15E-04	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	2.9E-09	6.2E-08	0.0E+00	0.0E+00	0.0E+00	6.5E-08
748 UCART2	479882.5	3774290.22	479882.46, 3774290.22	0.02452	0.01073	2.44E-04	1.34E-07	2.44E-04	8.4E-08	2.5E-07	2.0E-07	1.7E-07	7.8E-08	3.3E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.3E-08
749 UCART2	479932.5	3774290.22	479932.46, 3774290.22	0.02826	0.01154	2.81E-04	1.44E-07	2.81E-04	9.7E-08	2.9E-07	2.3E-07	2.0E-07	9.0E-08	3.8E-09	8.1E-08	0.0E+00	0.0E+00	0.0E+00	8.5E-08
750 UCART2	479332.5	3774340.22	479332.46, 3774340.22	0.00936	0.00601	9.31E-05	7.50E-08	9.31E-05	3.2E-08	9.7E-08	7.7E-08	6.7E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
751 UCART2	479382.5	3774340.22	479382.46, 3774340.22	0.00995	0.00626	9.89E-05	7.81E-08	9.90E-05	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
752 UCART2	479432.5	3774340.22	479432.46, 3774340.22	0.01061	0.00653	1.05E-04	8.15E-08	1.06E-04	3.7E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
753 UCART2	479482.5	3774340.22	479482.46, 3774340.22	0.01135	0.00682	1.13E-04	8.51E-08	1.13E-04	3.9E-08	1.2E-07	9.3E-08	8.1E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
754 UCART2	479532.5	3774340.22	479532.46, 3774340.22	0.0122	0.00715	1.21E-04	8.92E-08	1.21E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.7E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
755 UCART2	479582.5	3774340.22	479582.46, 3774340.22	0.01318	0.0075	1.31E-04	9.36E-08	1.31E-04	4.5E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	1.8E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
756 UCART2	479632.5	3774340.22	479632.46, 3774340.22	0.01432	0.00789	1.42E-04	9.84E-08	1.42E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	1.9E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
757 UCART2	479682.5	3774340.22	479682.46, 3774340.22	0.01565	0.00832	1.56E-04	1.04E-07	1.56E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
758 UCART2	479732.5	3774340.22	479732.46, 3774340.22	0.01725	0.00881	1.72E-04	1.10E-07	1.72E-04	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	2.3E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
759 UCART2	479782.5	3774340.22	479782.46, 3774340.22	0.01915	0.00934	1.90E-04	1.17E-07	1.91E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
760 UCART2	479832.5	3774340.22	479832.46, 3774340.22	0.02148	0.00995	2.14E-04	1.24E-07	2.14E-04	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	2.9E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
761 UCART2	479882.5	3774340.22	479882.46, 3774340.22	0.02439	0.01064	2.43E-04	1.33E-07	2.43E-04	8.4E-08	2.5E-07	2.0E-07	1.7E-07	7.8E-08	3.3E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.3E-08
762 UCART2	479932.5	3774340.22	479932.46, 3774340.22	0.02808	0.01144	2.79E-04	1.43E-07	2.79E-04	9.7E-08	2.9E-07	2.3E-07	2.0E-07	9.0E-08	3.8E-09	8.0E-08	0.0E+00	0.0E+00	0.0E+00	8.4E-08
763 UCART2	479332.5	3774390.22	479332.46, 3774390.22	0.00935	0.00599	9.30E-05	7.47E-08	9.30E-05	3.2E-08	9.7E-08	7.7E-08	6.6E-08	3.0E-08	1.3E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
764 UCART2	479382.5	3774390.22	479382.46, 3774390.22	0.00993	0.00624	9.87E-05	7.79E-08	9.88E-05	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	1.3E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
765 UCART2	479432.5	3774390.22	479432.46, 3774390.22	0.01058	0.00651	1.05E-04	8.12E-08	1.05E-04	3.6E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	1.4E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
766 UCART2	479482.5	3774390.22	479482.46, 3774390.22	0.01132	0.0068	1.13E-04	8.48E-08	1.13E-04	3.9E-08	1.2E-07	9.3E-08	8.0E-08	3.6E-08	1.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
767 UCART2	479532.5	3774390.22	479532.46, 3774390.22	0.01215	0.00711	1.21E-04	8.87E-08	1.21E-04	4.2E-08	1.3E-07	1.0E-07	8.6E-08	3.9E-08	1.6E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
768 UCART2	479582.5	3774390.22	479582.46, 3774390.22	0.01312	0.00746	1.30E-04	9.31E-08	1.31E-04	4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	1.8E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
769 UCART2	479632.5	3774390.22	479632.46, 3774390.22	0.01423	0.00785	1.41E-04	9.79E-08	1.42E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	1.9E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
770 UCART2	479682.5	3774390.22	479682.46, 3774390.22	0.01555	0.00827	1.55E-04	1.03E-07	1.55E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
771 UCART2	479732.5	3774390.22	479732.46, 3774390.22	0.01709	0.00874	1.70E-04	1.09E-07	1.70E-04	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	2.3E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.1E-08
772 UCART2	479782.5	3774390.22	479782.46, 3774390.22	0.01895	0.00926	1.88E-04	1.16E-07	1.89E-04	6.5E-08	2.0E-07	1.6E-07	1.3E-07	6.1E-08	2.6E-09	5.4E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
773 UCART2	479832.5	3774390.22	479832.46, 3774390.22	0.02122	0.00985	2.11E-04	1.23E-07	2.11E-04	7.3E-08	2.2E-07	1.7E-07	1.5E-07	6.8E-08	2.9E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
774 UCART2	479882.5	3774390.22	479882.46, 3774390.22	0.02403	0.01052	2.39E-04	1.31E-07	2.39E-04	8.3E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	3.3E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.2E-08
775 UCART2	479932.5	3774390.22	479932.46, 3774390.22	0.02757	0.01129	2.74E-04	1.41E-07	2.74E-04	9.5E-08	2.9E-07	2.3E-07	2.0E-07	8.8E-08	3.7E-09	7.9E-08	0.0E+00	0.0E+00	0.0E+00	8.3E-08

OPERATIONS

Unmitigated				
Onsite Running	Onsite Idle	OffRoad Equip	Generator	Offsite
3.76E-06	3.50E-07	2.82E-03	1.78E-04	1.49E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s					Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group					
					Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
1	1	480416	3774200.25	480415.97, 3774200.25	56.52832	23.22872	24.49207	0.00704	17.92949	2.13E-04	8.14E-06	6.90E-02	1.26E-06	2.67E-04	6.95E-02	2.4E-05	7.3E-05	5.7E-05	5.0E-05	2.2E-05	0.0E+00	0.0E+00	1.9E-05	1.6E-05	3.6E-06	3.9E-05
2	1	480386.4	3774201.62	480386.35, 3774201.62	48.03402	19.80678	20.70405	0.00719	10.91153	1.81E-04	6.94E-06	5.83E-02	1.28E-06	1.63E-04	5.87E-02	2.0E-05	6.1E-05	4.8E-05	4.2E-05	1.9E-05	0.0E+00	0.0E+00	1.6E-05	1.4E-05	3.0E-06	3.3E-05
3	1	480364.5	3774200.25	480364.52, 3774200.25	37.6782	17.39382	18.07978	0.0065	8.18768	1.42E-04	6.10E-06	5.09E-02	1.16E-06	1.22E-04	5.12E-02	1.8E-05	5.4E-05	4.2E-05	3.7E-05	1.6E-05	0.0E+00	0.0E+00	1.4E-05	1.2E-05	2.6E-06	2.9E-05
4	1	480441.3	3774196.2	480441.34, 3774196.2	48.22031	25.86024	27.4658	0.00732	22.22874	1.81E-04	9.06E-06	7.74E-02	1.31E-06	3.31E-04	7.79E-02	2.7E-05	8.1E-05	6.4E-05	5.6E-05	2.5E-05	0.0E+00	0.0E+00	2.1E-05	1.8E-05	4.0E-06	4.4E-05
5	1	480332.7	3774203.34	480332.65, 3774203.34	28.54454	14.80373	15.28182	0.00596	6.19488	1.07E-04	5.19E-06	4.30E-02	1.06E-06	9.23E-05	4.32E-02	1.5E-05	4.5E-05	3.6E-05	3.1E-05	1.4E-05	0.0E+00	0.0E+00	1.2E-05	1.0E-05	2.2E-06	2.4E-05
6	1	480282	3774208.1	480281.98, 3774208.1	19.21664	11.53538	11.80926	0.00488	4.55832	7.23E-05	4.04E-06	3.33E-02	8.70E-07	6.80E-05	3.34E-02	1.2E-05	3.5E-05	2.8E-05	2.4E-05	1.1E-05	0.0E+00	0.0E+00	9.1E-06	7.9E-06	1.7E-06	1.9E-05
7	1	480259.4	3774210.95	480259.39, 3774210.95	16.49535	10.40758	10.62434	0.00444	4.09805	6.21E-05	3.65E-06	2.99E-02	7.92E-07	6.11E-05	3.00E-02	1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.7E-06	0.0E+00	0.0E+00	8.2E-06	7.1E-06	1.6E-06	1.7E-05
8	1	480179.2	3774215.23	480179.23, 3774215.23	10.24044	7.37369	7.47674	0.00313	3.0274	3.85E-05	2.58E-06	2.11E-02	5.58E-07	4.51E-05	2.11E-02	7.3E-06	2.2E-05	1.7E-05	1.5E-05	6.8E-06	0.0E+00	0.0E+00	5.8E-06	5.0E-06	1.1E-06	1.2E-05
9	1	479777.1	3774155.68	479777.13, 3774155.68	2.56053	2.2826	2.29487	0.00076	1.26019	9.63E-06	8.00E-07	6.46E-03	1.36E-07	1.88E-05	6.49E-03	2.2E-06	6.8E-06	5.4E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
10	1	479903.9	3774153.05	479903.88, 3774153.05	3.47343	3.00412	3.02562	0.00107	1.56268	1.31E-05	1.05E-06	8.52E-03	1.91E-07	2.33E-05	8.56E-03	3.0E-06	8.9E-06	7.1E-06	6.1E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.8E-06
11	1	479888.7	3774072.72	479888.73, 3774072.72	3.11919	2.7343	2.75693	0.00093	1.50131	1.17E-05	9.58E-07	7.76E-03	1.66E-07	2.24E-05	7.80E-03	2.7E-06	8.2E-06	6.4E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.4E-06
12	1	480286.7	3774147.78	480286.74, 3774147.78	14.70791	9.9498	10.21614	0.00402	4.45652	5.53E-05	3.49E-06	2.88E-02	7.17E-07	6.64E-05	2.89E-02	1.0E-05	3.0E-05	2.4E-05	2.1E-05	9.3E-06	0.0E+00	0.0E+00	7.9E-06	6.8E-06	1.5E-06	1.6E-05
13	1	480415.6	3774088.13	480415.64, 3774088.13	15.05953	12.23923	12.74019	0.00407	6.88269	5.67E-05	4.29E-06	3.59E-02	7.26E-07	1.03E-04	3.60E-02	1.2E-05	3.8E-05	3.0E-05	2.6E-05	1.2E-05	0.0E+00	0.0E+00	9.8E-06	8.5E-06	1.9E-06	2.0E-05
14	1	480408	3774009.17	480408.03, 3774009.17	9.4208	8.38312	8.66159	0.00305	5.20835	3.54E-05	2.94E-06	2.44E-02	5.44E-07	7.76E-05	2.45E-02	8.5E-06	2.6E-05	2.0E-05	1.8E-05	7.9E-06	0.0E+00	0.0E+00	6.7E-06	5.8E-06	1.3E-06	1.4E-05
15	1	480445.4	3774004.65	480445.38, 3774004.65	9.452	8.73587	9.03999	0.00322	5.7564	3.56E-05	3.06E-06	2.55E-02	5.74E-07	8.58E-05	2.56E-02	8.9E-06	2.7E-05	2.1E-05	1.8E-05	8.2E-06	0.0E+00	0.0E+00	7.0E-06	6.0E-06	1.3E-06	1.4E-05
16	1	480447.3	3774028.67	480447.28, 3774028.67	10.71257	9.77573	10.13937	0.00352	6.23819	4.03E-05	3.43E-06	2.86E-02	6.28E-07	9.30E-05	2.87E-02	9.9E-06	3.0E-05	2.4E-05	2.0E-05	9.2E-06	0.0E+00	0.0E+00	7.8E-06	6.8E-06	1.5E-06	1.6E-05
17	1	480276.8	3774266.75	480276.83, 3774266.75	22.46687	12.69726	12.92076	0.00552	4.35798	8.45E-05	4.45E-06	3.64E-02	9.85E-07	6.50E-05	3.65E-02	1.3E-05	3.8E-05	3.0E-05	2.6E-05	1.2E-05	0.0E+00	0.0E+00	1.0E-05	8.6E-06	1.9E-06	2.0E-05
18	1	480151.3	3774266.75	480151.33, 3774266.75	9.45983	6.95586	7.02179	0.00301	2.74867	3.56E-05	2.44E-06	1.98E-02	5.37E-07	4.10E-05	1.99E-02	6.9E-06	2.1E-05	1.6E-05	1.4E-05	6.4E-06	0.0E+00	0.0E+00	5.4E-06	4.7E-06	1.0E-06	1.1E-05
19	1	480135.3	3774266.75	480135.3, 3774266.75	8.71826	6.52894	6.58707	0.0028	2.6248	3.28E-05	2.29E-06	1.86E-02	4.99E-07	3.91E-05	1.86E-02	6.4E-06	1.9E-05	1.5E-05	1.3E-05	6.0E-06	0.0E+00	0.0E+00	5.1E-06	4.4E-06	9.6E-07	1.0E-05
20	UCART1		479301.5	3774413.98	479301.5, 3774413.98	1.14893	1.08249	1.0833	0.0003	0.67843	4.32E-06	3.79E-07	3.05E-03	5.35E-08	1.01E-05	3.07E-03	1.1E-06	3.2E-06	2.5E-06	2.2E-06	9.8E-07	0.0E+00	0.0E+00	8.4E-07	7.2E-07	1.6E-07	1.7E-06
21	UCART1		479351.5	3774413.98	479351.5, 3774413.98	1.2328	1.15785	1.15873	0.00033	0.7147	4.64E-06	4.06E-07	3.26E-03	5.89E-08	1.07E-05	3.28E-03	1.1E-06	3.4E-06	2.7E-06	2.3E-06	1.1E-06	0.0E+00	0.0E+00	8.9E-07	7.7E-07	1.7E-07	1.8E-06
22	UCART1		479401.5	3774413.98	479401.5, 3774413.98	1.32585	1.24076	1.2417	0.00036	0.75362	4.99E-06	4.35E-07	3.50E-03	6.42E-08	1.12E-05	3.51E-03	1.2E-06	3.7E-06	2.9E-06	2.5E-06	1.1E-06	0.0E+00	0.0E+00	9.6E-07	8.3E-07	1.8E-07	2.0E-06
23	UCART1		479451.5	3774413.98	479451.5, 3774413.98	1.43139	1.33428	1.3353	0.00039	0.7965	5.39E-06	4.68E-07	3.76E-03	6.96E-08	1.19E-05	3.78E-03	1.3E-06	3.9E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	1.0E-06	8.9E-07	1.9E-07	2.1E-06
24	UCART1		479501.5	3774413.98	479501.5, 3774413.98	1.55159	1.44009	1.44119	0.00043	0.84378	5.84E-06	5.05E-07	4.06E-03	7.67E-08	1.26E-05	4.08E-03	1.4E-06	4.3E-06	3.4E-06	2.9E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.6E-07	2.1E-07	2.3E-06
25	UCART1		479551.5	3774413.98	479551.5, 3774413.98	1.68806	1.55907	1.56026	0.00048	0.8954	6.35E-06	5.46E-07	4.39E-03	8.56E-08	1.33E-05	4.41E-03	1.5E-06	4.6E-06	3.6E-06	3.2E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.0E-06	2.3E-07	2.5E-06
26	UCART1		479601.5	3774413.98	479601.5, 3774413.98	1.84699	1.69677	1.69804	0.00053	0.95349	6.95E-06	5.95E-07	4.78E-03	9.45E-08	1.42E-05	4.80E-03	1.7E-06	5.0E-06	4.0E-06	3.4E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.5E-07	2.7E-06
27	UCART1		479651.5	3774413.98	479651.5, 3774413.98	2.02971	1.85309	1.85446	0.00059	1.01719	7.64E-06	6.49E-07	5.22E-03	1.05E-07	1.52E-05	5.25E-03	1.8E-06	5.5E-06	4.3E-06	3.7E-06	1.7E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.7E-07	2.9E-06
28	UCART1		479701.5	3774413.98	479701.5, 3774413.98	2.24574	2.0363	2.03775	0.00067	1.08938	8.45E-06	7.14E-07	5.74E-03	1.20E-07	1.62E-05	5.76E-03	2.0E-06	6.0E-06	4.8E-06	4.1E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.2E-06
29	UCART1		479751.5	3774413.98	479751.5, 3774413.98	2.49921	2.24791	2.24945	0.00076	1.16946	9.40E-06	7.88E-07	6.34E-03	1.36E-07	1.74E-05	6.36E-03	2.2E-06	6.7E-06	5.3E-06	4.5E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.3E-07	3.6E-06
30	UCART1		479801.5	3774413.98	479801.5, 3774413.98	2.80276	2.4976	2.49918	0.00087	1.26007	1.05E-05	8.75E-07	7.04E-03	1.55E-07	1.88E-05	7.07E-03	2.4E-06	7.4E-06	5.8E-06	5.0E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.6E-07	4.0E-06
31	UCART1		479851.5	3774413.98	479851.5, 3774413.98	3.1742	2.79876	2.80034	0.00101	1.3646	1.19E-05	9.81E-07	7.89E-03	1.80E-07	2.03E-05	7.92E-03	2.7E-06	8.3E-06	6.5E-06	5.7E-06	2.5E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.1E-07	4.4E-06
32	UCART1		479901.5	3774413.98	479901.5, 3774413.98	3.62884	3.15913	3.16061	0.00117	1.48326	1.37E-05	1.11E-06	8.90E-03	2.09E-07	2.21E-05	8.94E-03	3.1E-06	9.3E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	5.0E-06
33	UCART1		479951.5	3774413.98	479951.5, 3774413.98	4.20307	3.60484	3.60602	0.00139	1.62208	1.58E-05	1.26E-06	1.02E-02	2.48E-07	2.42E-05	1.02E-02	3.5E-06	1.1E-05	8.4E-06	7.3E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.7E-06
34	UCART1		480001.5	3774413.98	480001.5, 3774413.98	4.93463	4.15527	4.1558	0.00166	1.78263	1.86E-05	1.46E-06	1.17E-02	2.96E-07	2.66E-05	1.18E-02	4.1E-06	1.2E-05	9.7E-06	8.4E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.6E-06
35	UCART1		480051.5	3774413.98	480051.5, 3774413.98	5.90057	4.85898	4.85818	0.00201	1.97362	2.22E-05	1.70E-06	1.37E-02	3.59E-07	2.94E-05	1.37E-02	4.8E-06	1.4E-05	1.1E-05	9.8E-06	4.4E-06	0.0E+00	0.0E+00	3.7E-06	3.2E-06	7.1E-07	7.7E-06
36	UCART1		480101.5	3774413.98	480101.5, 3774413.98	7.21152	5.77487	5.77143	0.00247	2.20201	2.71E-05	2.02E-06	1.63E-02	4.41E-07	3.28E-05	1.63E-02	5.6E-06	1.7E-05	1.3E-05	1.2E-05	5.2E-06	0.0E+00	0.0E+00	4.4E-06	3.8E-06	8.4E-07	9.1E-06
37	UCART1		480151.5	3774413.98	480151.5, 3774413.98	9.05951	6.99935	6.9906	0.00309	2.47821	3.41E-05	2.45E-06	1.97E-02	5.51E-07	3.69E-05	1.98E-02	6.8E-06	2.1E-05	1.6E-05	1.4E-05	6.3E-06	0.0E+00	0.0E+00	5.4E-06	4.7E-06	1.0E-06	1.1E-05
38	UCART1		480201.5	3774413.98	480201.5, 3774413.98	11.80928	8.71131	8.69135	0.00393	2.82009	4.44E-05	3.05E-06	2.45E-02	7.01E-07	4.20E-05	2.46E-02	8.5E-06	2.6E-05	2.0E-05	1.8E-05	7.9E-06	0.0E+00	0.0E+00	6.7E-06	5.8E-06	1.3E-06	1.4E-05
39	UCART1		480251.5	3774413.98	480251.5, 3774413.98	16.13096	11.18508	11.14021	0.00506	3.24233	6.07E-05	3.92E-06	3.14E-02	9.03E-07	4.83E-05	3.15E-02	1.1E-05	3.3E-05	2.6E-05	2.2E-05	1.0E-05	0.0E+00	0.0E+00	8.6E-06	7.4E-06	1.6E-06	1.8E-05
40	UCART1		480301.5	3774413.98	480301.5, 3774413.98	23.52454	15.03173	14.92497	0.00659	3.77412	8.85E-05	5.27E-06	4.20E-02	1.18E-06	5.63E-05	4.22E-02	1.5E-05	4.4E-05	3.5E-05	3.0E-05	1.4E-05	0.0E+00	0.0E+00	1.1E-05	9.9E-06	2.2E-06	2.4E-05
41	UCART1		480351.5	3774413.98	480351.5, 3774413.98	37.25242	21.45522	21.17275	0.00834	4.43007	1.40E-04	7.52E-06	5.96E-02	1.49E-06	6.60E-05	5.98E-02	2.1E-05	6.3E-05	4.9E-05	4.3E-05	1.9E-05	0.0E+00	0.0E+00	1.6E-05	1.4E-05	3.1E-06	3.4E-05
42	UCART1		480401.5	3774413.98	480401.5, 3774413.98	62.45562	33.42825	32.53599	0.00944	5.21453	2.35E-04	1.17E-05	9.16E-02	1.68E-06	7.77E-05	9.20E-02	3.2E-05	9.6E-05	7.6E-05	6.6E-05	3.0E-05	0.0E+00	0.0E+00	2.5E-05	2.2E-05	4.7E-06	5.1E-05
43	UCART1		480451.5	3774413.98	480451.5, 3774413.98	90.48056	58.46808	54.9669	0.00952	6.11077	3.40E-04	2.05E-05	1.55E-01	1.70E-06	9.11E-05	1.55E-01	5.4E-05	1.6E-04	1.3E-04	1.1E-04	5.0E-05	0.0E+00	0.0E+00	4.2E-05	3.7E-05	8.0E-06	8.7E-05
44	UCART1		480501.5	3774413.98	480501.5, 3774413.98	100.98735	104.1154	92.05779	0.00981	7.10476	3.80E-04	3.65E-05	2.59E-01	1.75E-06	1.06E-04	2.60E-01	9.0E-05	2.7E-04	2.1E-04	1.9E-04	8.3E-05	0.0E+00	0.0E+00	7.1E-05	6.1E-05	1.3E-05	1.5E-04
45	UCART1		480551.5	3774413.98	480551.5, 3774413.98	101.92839	138.3021	118.8604	0.0315	8.25795	3.83E-04	4.85E-05	3.35E-01	5.62E-06	1.23E-04	3.35E-01	1.2E-04	3.5E-04	2.8E-04	2.4E-04	1.1E-04	0.0E+00	0.0E+00	9.1E-05	7.9E-05	1.7E-05	1.9E-04
46	UCART1		480601.5	3774413.98	480601.5, 3774413.98	99.3318	131.5781	112.8565	0.04507	9.73483	3.74E-04	4.61E-05	3.18E-01	8.04E-06	1.45E-04	3.18E-01	1.1E-04	3.3E-04	2.6E-04	2.3E-04	1.0E-04	0.0E+00	0.0E+00	8.7E-05	7.5E-05	1.6E-05	1.8E-04
47	UCART1		480651.5	3774413.98	480651.5, 3774413.98	92.32009	88.87273	78.7074	0.04255	11.84306	3.47E-04	3.11E-05	2.22E-01	7.59E-06	1.77E-04	2.22E-01	7.7E-05	2.3E-04	1.8E-04	1.6E-04	7.1E-05	0.0E+00	0.0E+00	6.1E-05	5.2E-05	1.1E-05	1.2E-04
48	UCART1		480701.5	3774413.98	480701.5, 3774413.98	74.34073	50.62808	47.06482	0.03501	15.00341	2.80E-04	1.77E-05	1.33E-01	6.24E-06	2.24E-04	1.33E-01	4.6E-05	1.4E-04	1.1E-04	9.5E-05	4.3E-05	0.0E+00	0.0E+00	3.6E-05	3.1E-05	6.9E-06	7.4E-05
49	UCART1		480751.5	3774413.98	480751.5, 3774413.98	42.92155	31.22574	29.82873	0.02516	16.84301	1.61E-04	1.09E-05	8.40E-02	4.49E-06	2.51E-04	8.44E-02	2.9E-05	8.8E-05	7.0E-05	6.0E-05	2.7E-05	0.0E+00	0.0E+00	2.3E-05	2.0E-05	4.4E-06	4.7E-05
50	UCART1		480801.5	3774413.98	480801.5, 3774413.98	24.36667	21.14187	20.47837	0.02068	14.1616	9.17E-05	7.41E-06	5.77E-02	3.69E-06	2.11E-04	5.80E-02	2.0E-05	6.1E-05	4.8E-05	4.1E-05	1.9E-05	0.0E+00	0.0E+00	1.6E-05	1.4E-05	3.0E-06	3.2E-05
51	UCART1		480851.5	3774413.98	480851.5, 3774413.98	16.20263	15.35962	14.99699	0.01644	11.73464	6.10E-05	5.38E-06	4.22E-02	2.93E-06	1.75E-04	4.25E-02	1.5E-05	4.4E-05	3.5E-05	3.0E-05	1.4E-05	0.0E+00	0.0E+00	1.2E-05	1.1E-05	2.2E-06	2.4E-05
52	UCART1		480901.5	3774413.98	480901.5, 3774413.98	11.84951	11.72051	11.50143	0.01309	10.25454	4.46E-05	4.11E-06	3.24E-02	2.33E-06	1.53E-04	3.26E-02	1.1E-05	3.4E-05	2.7E-05	2.3E-05	1.0E-05	0.0E+00	0.0E+00	8.9E-06	7.7E-06	1.7E-06	1.8E-05
53	UCART1		480951.5	3774413.98	480951.5, 3774413.98	9.18745	9.28284	9.14078	0.01045	9.33874	3.46E-05	3.25E-06	2.57E-02	1.86E-06	1.39E-04	2.59E-02	9.0E-06	2.7E-05	2.1E-05	1.9E-05	8.3E-06	0.0E+00	0.0E+00	7.1E-06	6.1E-06	1.3E-06	1.5E-05
54	UCART1		481001.5	3774413.98	481001.5, 3774413.98	7.40174	7.56389	7.46662	0.00839	8.73421	2.78E-05	2.65E-06	2.10E-02	1.50E-06	1.30E-04	2.12E-02	7.3E-06	2.2E-05	1.7E-05	1.5E-05	6.8E-06	0.0E+00	0.0E+00	5.8E-06	5.0E-06	1.1E-06	1.2E-05
55	UCART1		481051.5	3774413.98	481051.5, 3774413.98	6.17985	6.38944	6.31631	0.00679	8.31094	2.32E-05	2.24E-06	1.78E-02	1.21E-06	1.24E-04	1.79E-02	6.2E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.9E-06	4.2E-06	9.3E-07	1.0E-05
56	UCART1		481101.5	3774413.98	481101.5, 3774413.98	5.25089	5.46875	5.41276	0.00554	7.99425	1.98E-05	1.92E-06	1.52E-02	9.88E-07	1.19E-04	1.54E-02	5.3E-06	1.6E-05	1.3E-05	1.1E-05	4.9E-06	0.0E+00	0.0E+00	4.2E-06	3.6E-06	7.9E-07	8.6E-06
57	UCART1		481151.5	3774413.98	481151.5, 3774413.98	4.61471	5.00502	4.99063	0.00456	7.7463	1.74E-05	1.75E-06	1.41E-02	8.13E-07	1.15E-04	1.42E-02	4.9E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.3E-06	7.3E-07	7.9E-06
58	UCART1		481201.5	3774413.98	481201.5, 3774413.98	4.13241	4.73805	4.67999	0.0038	7.53564	1.55E-05	1.66E-06	1.32E-02	6.78E-07	1.12E-04	1.33E-02	4.6E-06	1.4E-05	1.1E-05	9.5E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.9E-07	7.5E-06
59	UCART1		481251.5	3774413.98	481251.5, 3774413.98	3.74632	4.25839	4.20804	0.0032	7.4095	1.41E-05	1.49E-06	1.19E-02	5.71E-07	1.10E-04	1.20E-02	4.1E-06	1.3E-05	9.9E-06	8.6E-06	3.8E-06	0.0E+00	0.0E+00	3.3E-06	2.8E-06	6.2E-07	6.7E-06
60	UCART1		481301.5	3774413.98	481301.5, 3774413.98	3.42523	3.85303	3.80912	0.00273	7.21855	1.29E-05	1.35E-06	1.07E-02	4.87E-07	1.08E-04	1.09E-02	3.8E-06	1.1E-05	9.0E-06	7.8E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.6E-07	6.1E-06
61	UCART1		481351.5	3774413.98	481351.5, 3774413.98	3.17015	3.51894	3.4798	0.00235	7.01162	1.19E-05	1.23E-06	9.80E-03	4.19E-07	1.05E-04	9.92E-03	3.4E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.6E-06
62	UCART1		481401.5	3774413.98	481401.5, 3774413.98	2.90384	3.20629	3.17237	0.00206	6.76925	1.09E-05	1.12E-06	8.93E-03	3.67E-07	1.01E-04	9.05E-03	3.1E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
63	UCART1		481451.5	3774413.98	481451.5, 3774413.98	2.71913	2.95646	2.92542	0.00181	6.48616	1.02E-05	1.04E-06	8.24E-03	3.23E-07	9.67E-05	8.35E-03	2.9E-06	8.7E-06	6.9E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.7E-06
64	UCART1		479301.5	3774463.98	479301.5, 3774463.98	1.14221	1.07713	1.07754	0.0003	0.67283	4.30E-06	3.77E-07	3.03E-03	5.35E-08	1.00E-05	3.05E-03	1.1E-06	3.2E-06	2.5E-06	2.2E-06	9.8E-07	0.0E+00	0.0E+00	8.3E-07	7.2E-07	1.6E-07	1.7E-06
65	UCART1		479351.5	3774463.98	479351.5, 3774463.98	1.22491	1.15162	1.15203	0.00033	0.70838	4.61E-06	4.04E-07	3.24E-03	5.89E-08	1.06E-05	3.26E-03	1.1E-06	3.4E-06	2.7E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	8.9E-07	7.7E-07	1.7E-07	1.8E-06
66	UCART1		479401.5	3774463.98	479401.5, 3774463.98	1.31653	1.2335	1.2339	0.00036	0.74647	4.95E-06	4.32E-07	3.48E-03	6.42E-08	1.11E-05	3.49E-03	1.2E-06	3.6E-06	2.9E-06	2.5E-06	1.1E-06	0.0E+00	0.0E+00	9.5E-07	8.2E-07	1.8E-07	2.0E-06
67	UCART1		479451.5	3774463.98	479451.5, 3774463.98	1.421	1.32652	1.3269	0.00039	0.78876	5.35E-06	4.65E-07	3.74E-03	6.96E-08	1.18E-05	3.75E-03	1.3E-06	3.9E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	1.0E-06	8.9E-07	1.9E-07	2.1E-06
68	UCART1		479501.5	3774463.98	479501.5, 3774463.98	1.53825	1.42999	1.43033	0.00043	0.83445	5.79E-06	5.01E-07	4.03E-03	7.67E-08	1.24E-05	4.05E-03	1.4E-06	4.2E-06	3.3E-06	2.9E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.5E-07

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s					Concentration (AVERAGE CONC) [ug/m^3]						Residential Dose					Risk by Age Group					
					Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
94	UCART1	480801.5	3774463.98	480801.5, 3774463.98	18.07452	17.41856	16.80094	0.01313	9.71165	6.80E-05	6.10E-06	4.73E-02	2.34E-06	1.45E-04	4.75E-02	1.6E-05	5.0E-05	3.9E-05	3.4E-05	1.5E-05	0.0E+00	0.0E+00	1.3E-05	1.1E-05	2.5E-06	2.7E-05
95	UCART1	480851.5	3774463.98	480851.5, 3774463.98	13.27001	13.3074	12.93515	0.01114	8.92072	4.99E-05	4.66E-06	3.64E-02	1.99E-06	1.33E-04	3.66E-02	1.3E-05	3.8E-05	3.0E-05	2.6E-05	1.2E-05	0.0E+00	0.0E+00	1.0E-05	8.6E-06	1.9E-06	2.0E-05
96	UCART1	480901.5	3774463.98	480901.5, 3774463.98	10.18844	10.48318	10.24472	0.00922	8.21967	3.83E-05	3.67E-06	2.89E-02	1.64E-06	1.23E-04	2.90E-02	1.0E-05	3.0E-05	2.4E-05	2.1E-05	9.3E-06	0.0E+00	0.0E+00	7.9E-06	6.8E-06	1.5E-06	1.6E-05
97	UCART1	480951.5	3774463.98	480951.5, 3774463.98	8.13443	8.48678	8.32604	0.00764	7.68599	3.06E-05	2.97E-06	2.34E-02	1.36E-06	1.15E-04	2.36E-02	8.2E-06	2.5E-05	1.9E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	6.4E-06	5.6E-06	1.2E-06	1.3E-05
98	UCART1	481001.5	3774463.98	481001.5, 3774463.98	6.6876	7.02445	6.91148	0.00632	7.2854	2.52E-05	2.46E-06	1.95E-02	1.13E-06	1.09E-04	1.96E-02	6.8E-06	2.0E-05	1.6E-05	1.4E-05	6.3E-06	0.0E+00	0.0E+00	5.3E-06	4.6E-06	1.0E-06	1.1E-05
99	UCART1	481051.5	3774463.98	481051.5, 3774463.98	5.65597	6.01405	5.92578	0.00524	6.9784	2.13E-05	2.11E-06	1.67E-02	9.35E-07	1.04E-04	1.68E-02	5.8E-06	1.8E-05	1.4E-05	1.2E-05	5.4E-06	0.0E+00	0.0E+00	4.6E-06	4.0E-06	8.7E-07	9.4E-06
100	UCART1	481101.5	3774463.98	481101.5, 3774463.98	4.84413	5.1553	5.08876	0.00438	6.7326	1.82E-05	1.81E-06	1.43E-02	7.81E-07	1.00E-04	1.45E-02	5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.5E-07	8.1E-06
101	UCART1	481151.5	3774463.98	481151.5, 3774463.98	4.26677	4.68407	4.64879	0.0037	6.52748	1.61E-05	1.64E-06	1.31E-02	6.60E-07	9.73E-05	1.32E-02	4.6E-06	1.4E-05	1.1E-05	9.4E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.4E-06
102	UCART1	481201.5	3774463.98	481201.5, 3774463.98	3.81966	4.38054	4.31446	0.00314	6.34413	1.44E-05	1.54E-06	1.22E-02	5.60E-07	9.46E-05	1.23E-02	4.2E-06	1.3E-05	1.0E-05	8.8E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.3E-07	6.9E-06
103	UCART1	481251.5	3774463.98	481251.5, 3774463.98	3.45949	3.94654	3.88931	0.0027	6.20458	1.30E-05	1.38E-06	1.10E-02	4.82E-07	9.25E-05	1.11E-02	3.8E-06	1.2E-05	9.1E-06	7.9E-06	3.6E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.7E-07	6.2E-06
104	UCART1	481301.5	3774463.98	481301.5, 3774463.98	3.16424	3.58174	3.5317	0.00234	6.02763	1.19E-05	1.26E-06	9.95E-03	4.17E-07	8.99E-05	1.00E-02	3.5E-06	1.1E-05	8.3E-06	7.2E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.4E-06	5.2E-07	5.6E-06
105	UCART1	481351.5	3774463.98	481351.5, 3774463.98	2.93419	3.28237	3.23735	0.00205	5.83813	1.10E-05	1.15E-06	9.12E-03	3.66E-07	8.70E-05	9.22E-03	3.2E-06	9.6E-06	7.6E-06	6.6E-06	3.0E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.8E-07	5.2E-06
106	UCART1	481401.5	3774463.98	481401.5, 3774463.98	2.69963	3.00342	2.9641	0.00181	5.62364	1.02E-05	1.05E-06	8.35E-03	3.23E-07	8.38E-05	8.44E-03	2.9E-06	8.8E-06	7.0E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.7E-06
107	UCART1	481451.5	3774463.98	481451.5, 3774463.98	2.50815	2.76319	2.72806	0.00162	5.38494	9.44E-06	9.68E-07	7.68E-03	2.89E-07	8.03E-05	7.77E-03	2.7E-06	8.1E-06	6.4E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.4E-06
108	UCART1	481501.5	3774463.98	481501.5, 3774463.98	2.34259	2.54906	2.51746	0.00146	5.10517	8.81E-06	8.93E-07	7.09E-03	2.60E-07	7.61E-05	7.18E-03	2.5E-06	7.5E-06	5.9E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.7E-07	4.0E-06
109	UCART1	479301.5	3774513.98	479301.5, 3774513.98	1.13304	1.06958	1.0696	0.0003	0.6665	4.26E-06	3.75E-07	3.01E-03	5.35E-08	9.94E-06	3.03E-03	1.0E-06	3.2E-06	2.5E-06	2.2E-06	9.7E-07	0.0E+00	0.0E+00	8.2E-07	7.1E-07	1.6E-07	1.7E-06
110	UCART1	479351.5	3774513.98	479351.5, 3774513.98	1.2137	1.14239	1.14234	0.00032	0.70098	4.57E-06	4.00E-07	3.22E-03	5.71E-08	1.04E-05	3.23E-03	1.1E-06	3.4E-06	2.7E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	8.8E-07	7.6E-07	1.7E-07	1.8E-06
111	UCART1	479401.5	3774513.98	479401.5, 3774513.98	1.30331	1.22274	1.22261	0.00035	0.7381	4.90E-06	4.29E-07	3.44E-03	6.24E-08	1.10E-05	3.46E-03	1.2E-06	3.6E-06	2.9E-06	2.5E-06	1.1E-06	0.0E+00	0.0E+00	9.4E-07	8.2E-07	1.8E-07	1.9E-06
112	UCART1	479451.5	3774513.98	479451.5, 3774513.98	1.40532	1.31395	1.3137	0.00038	0.77927	5.29E-06	4.60E-07	3.70E-03	6.78E-08	1.16E-05	3.72E-03	1.3E-06	3.9E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	1.0E-06	8.8E-07	1.9E-07	2.1E-06
113	UCART1	479501.5	3774513.98	479501.5, 3774513.98	1.51938	1.41507	1.41467	0.00042	0.82358	5.72E-06	4.96E-07	3.98E-03	7.49E-08	1.23E-05	4.00E-03	1.4E-06	4.2E-06	3.3E-06	2.9E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.4E-07	2.1E-07	2.2E-06
114	UCART1	479551.5	3774513.98	479551.5, 3774513.98	1.65017	1.53048	1.52988	0.00046	0.87279	6.21E-06	5.36E-07	4.31E-03	8.20E-08	1.30E-05	4.33E-03	1.5E-06	4.5E-06	3.6E-06	3.1E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.0E-06	2.2E-07	2.4E-06
115	UCART1	479601.5	3774513.98	479601.5, 3774513.98	1.79922	1.66092	1.66005	0.00051	0.92663	6.77E-06	5.82E-07	4.68E-03	9.10E-08	1.38E-05	4.70E-03	1.6E-06	4.9E-06	3.9E-06	3.4E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.4E-07	2.6E-06
116	UCART1	479651.5	3774513.98	479651.5, 3774513.98	1.97232	1.81153	1.8103	0.00057	0.98682	7.42E-06	6.35E-07	5.10E-03	1.02E-07	1.47E-05	5.12E-03	1.8E-06	5.4E-06	4.2E-06	3.7E-06	1.6E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.6E-07	2.9E-06
117	UCART1	479701.5	3774513.98	479701.5, 3774513.98	2.17157	1.98293	1.98121	0.00064	1.0527	8.17E-06	6.95E-07	5.58E-03	1.14E-07	1.57E-05	5.60E-03	1.9E-06	5.9E-06	4.6E-06	4.0E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.9E-07	3.1E-06
118	UCART1	479751.5	3774513.98	479751.5, 3774513.98	2.40494	2.18175	2.17936	0.00073	1.12613	9.05E-06	7.65E-07	6.14E-03	1.30E-07	1.68E-05	6.16E-03	2.1E-06	6.4E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.2E-07	3.5E-06
119	UCART1	479801.5	3774513.98	479801.5, 3774513.98	2.68351	2.41733	2.41399	0.00083	1.20959	1.01E-05	8.47E-07	6.80E-03	1.48E-07	1.80E-05	6.83E-03	2.4E-06	7.1E-06	5.6E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.5E-07	3.8E-06
120	UCART1	479851.5	3774513.98	479851.5, 3774513.98	3.01369	2.69256	2.68789	0.00095	1.30233	1.13E-05	9.44E-07	7.57E-03	1.69E-07	1.94E-05	7.60E-03	2.6E-06	7.9E-06	6.3E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.3E-06
121	UCART1	479901.5	3774513.98	479901.5, 3774513.98	3.41616	3.02488	3.0183	0.0011	1.40874	1.29E-05	1.06E-06	8.50E-03	1.96E-07	2.10E-05	8.54E-03	3.0E-06	8.9E-06	7.0E-06	6.1E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.8E-06
122	UCART1	479951.5	3774513.98	479951.5, 3774513.98	3.9055	3.42221	3.41284	0.00129	1.52841	1.47E-05	1.20E-06	9.61E-03	2.30E-07	2.29E-05	9.65E-03	3.3E-06	1.0E-05	8.0E-06	6.9E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	5.0E-07	5.4E-06
123	UCART1	480001.5	3774513.98	480001.5, 3774513.98	4.51636	3.91209	3.89854	0.00152	1.66671	1.70E-05	1.37E-06	1.11E-02	2.71E-07	2.48E-05	1.10E-02	3.8E-06	1.2E-05	9.1E-06	7.9E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.7E-07	6.2E-06
124	UCART1	480051.5	3774513.98	480051.5, 3774513.98	5.28476	4.51804	4.4981	0.00182	1.8253	1.99E-05	1.58E-06	1.27E-02	3.25E-07	2.72E-05	1.27E-02	4.4E-06	1.3E-05	1.0E-05	9.1E-06	4.1E-06	0.0E+00	0.0E+00	3.5E-06	3.0E-06	6.6E-07	7.1E-06
125	UCART1	480101.5	3774513.98	480101.5, 3774513.98	6.26815	5.28094	5.25094	0.00219	2.00851	2.36E-05	1.85E-06	1.48E-02	3.91E-07	2.99E-05	1.48E-02	5.1E-06	1.6E-05	1.2E-05	1.1E-05	4.8E-06	0.0E+00	0.0E+00	4.0E-06	3.5E-06	7.7E-07	8.3E-06
126	UCART1	480151.5	3774513.98	480151.5, 3774513.98	7.55539	6.26956	6.22305	0.00268	2.22383	2.84E-05	2.20E-06	1.75E-02	4.78E-07	3.32E-05	1.76E-02	6.1E-06	1.8E-05	1.5E-05	1.3E-05	5.7E-06	0.0E+00	0.0E+00	4.8E-06	4.1E-06	9.1E-07	9.8E-06
127	UCART1	480201.5	3774513.98	480201.5, 3774513.98	9.24873	7.55738	7.48309	0.00329	2.47324	3.48E-05	2.65E-06	2.11E-02	5.87E-07	3.69E-05	2.11E-02	7.3E-06	2.2E-05	1.7E-05	1.5E-05	6.8E-06	0.0E+00	0.0E+00	5.8E-06	5.0E-06	1.1E-06	1.2E-05
128	UCART1	480251.5	3774513.98	480251.5, 3774513.98	11.49492	9.27764	9.15457	0.00408	2.76391	4.32E-05	3.25E-06	2.58E-02	7.28E-07	4.12E-05	2.59E-02	9.0E-06	2.7E-05	2.1E-05	1.8E-05	8.3E-06	0.0E+00	0.0E+00	7.0E-06	6.1E-06	1.3E-06	1.4E-05
129	UCART1	480301.5	3774513.98	480301.5, 3774513.98	14.44594	11.63793	11.42522	0.00509	3.10427	5.43E-05	4.08E-06	3.22E-02	9.08E-07	4.63E-05	3.23E-02	1.1E-05	3.4E-05	2.7E-05	2.3E-05	1.0E-05	0.0E+00	0.0E+00	8.8E-06	7.6E-06	1.7E-06	1.8E-05
130	UCART1	480351.5	3774513.98	480351.5, 3774513.98	18.08432	14.84545	14.46658	0.00617	3.49067	6.80E-05	5.20E-06	4.07E-02	1.10E-06	5.20E-05	4.09E-02	1.4E-05	4.3E-05	3.4E-05	2.9E-05	1.3E-05	0.0E+00	0.0E+00	1.1E-05	9.6E-06	2.1E-06	2.3E-05
131	UCART1	480401.5	3774513.98	480401.5, 3774513.98	22.05056	19.18064	18.49539	0.00745	3.93024	8.30E-05	6.72E-06	5.21E-02	1.33E-06	5.86E-05	5.22E-02	1.8E-05	5.5E-05	4.3E-05	3.7E-05	1.7E-05	0.0E+00	0.0E+00	1.4E-05	1.2E-05	2.7E-06	2.9E-05
132	UCART1	480451.5	3774513.98	480451.5, 3774513.98	25.46581	24.45247	23.26998	0.00838	4.41164	9.58E-05	8.57E-06	6.55E-02	1.49E-06	6.58E-05	6.57E-02	2.3E-05	6.9E-05	5.4E-05	4.7E-05	2.1E-05	0.0E+00	0.0E+00	1.8E-05	1.5E-05	3.4E-06	3.7E-05
133	UCART1	480501.5	3774513.98	480501.5, 3774513.98	27.53552	29.6858	27.88367	0.00872	4.94162	1.04E-04	1.04E-05	7.85E-02	1.56E-06	7.37E-05	7.87E-02	2.7E-05	8.2E-05	6.5E-05	5.6E-05	2.5E-05	0.0E+00	0.0E+00	2.1E-05	1.9E-05	4.1E-06	4.4E-05
134	UCART1	480551.5	3774513.98	480551.5, 3774513.98	28.06692	32.71822	30.43817	0.00916	5.50088	1.06E-04	1.14E-05	8.59E-02	1.46E-06	8.21E-05	8.61E-02	3.0E-05	9.0E-05	7.1E-05	6.1E-05	2.8E-05	0.0E+00	0.0E+00	2.3E-05	2.1E-05	4.4E-06	4.8E-05
135	UCART1	480601.5	3774513.98	480601.5, 3774513.98	27.1463	32.04103	29.83124	0.00847	6.11517	1.02E-04	1.12E-05	8.40E-02	1.51E-06	9.12E-05	8.42E-02	2.9E-05	8.8E-05	7.0E-05	6.0E-05	2.7E-05	0.0E+00	0.0E+00	2.3E-05	2.0E-05	4.3E-06	4.7E-05
136	UCART1	480651.5	3774513.98	480651.5, 3774513.98	24.91574	28.05495	26.2916	0.00858	6.71405	9.37E-05	9.83E-06	7.40E-02	1.53E-06	1.00E-04	7.43E-02	2.6E-05	7.8E-05	6.1E-05	5.3E-05	2.4E-05	0.0E+00	0.0E+00	2.0E-05	1.8E-05	3.8E-06	4.2E-05
137	UCART1	480701.5	3774513.98	480701.5, 3774513.98	21.50469	22.74691	21.54572	0.00877	7.20581	8.09E-05	7.97E-06	6.07E-02	1.56E-06	1.07E-04	6.09E-02	2.1E-05	6.4E-05	5.0E-05	4.3E-05	2.0E-05	0.0E+00	0.0E+00	1.7E-05	1.4E-05	3.1E-06	3.4E-05
138	UCART1	480751.5	3774513.98	480751.5, 3774513.98	17.50544	17.88198	17.11776	0.00849	7.43235	6.59E-05	6.27E-06	4.82E-02	1.51E-06	1.11E-04	4.84E-02	1.7E-05	5.1E-05	4.0E-05	3.5E-05	1.6E-05	0.0E+00	0.0E+00	1.3E-05	1.1E-05	2.5E-06	2.7E-05
139	UCART1	480801.5	3774513.98	480801.5, 3774513.98	13.80954	14.08746	13.59961	0.00798	7.34148	5.20E-05	4.94E-06	3.83E-02	1.42E-06	1.09E-04	3.85E-02	1.3E-05	4.0E-05	3.2E-05	2.7E-05	1.2E-05	0.0E+00	0.0E+00	1.0E-05	9.1E-06	2.0E-06	2.2E-05
140	UCART1	480851.5	3774513.98	480851.5, 3774513.98	10.8947	11.26743	10.94623	0.00719	7.0561	4.10E-05	3.95E-06	3.08E-02	1.28E-06	1.05E-04	3.10E-02	1.1E-05	3.2E-05	2.6E-05	2.2E-05	1.0E-05	0.0E+00	0.0E+00	8.4E-06	7.3E-06	1.6E-06	1.7E-05
141	UCART1	480901.5	3774513.98	480901.5, 3774513.98	8.73521	9.16496	8.94609	0.00626	6.72182	3.29E-05	3.21E-06	2.52E-02	1.12E-06	1.00E-04	2.53E-02	8.8E-06	2.6E-05	2.1E-05	1.8E-05	8.1E-06	0.0E+00	0.0E+00	6.9E-06	6.0E-06	1.3E-06	1.4E-05
142	UCART1	480951.5	3774513.98	480951.5, 3774513.98	7.16684	7.59773	7.44313	0.0054	6.41686	2.70E-05	2.66E-06	2.10E-02	9.63E-07	9.57E-05	2.11E-02	7.3E-06	2.2E-05	1.7E-05	1.5E-05	6.8E-06	0.0E+00	0.0E+00	5.7E-06	5.0E-06	1.1E-06	1.2E-05
143	UCART1	481001.5	3774513.98	481001.5, 3774513.98	6.01186	6.44902	6.33061	0.00463	6.15612	2.26E-05	2.26E-06	1.78E-02	8.26E-07	9.18E-05	1.79E-02	6.2E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.9E-06	4.2E-06	9.3E-07	1.0E-05
144	UCART1	481051.5	3774513.98	481051.5, 3774513.98	5.12677	5.52092	5.43172	0.00398	5.93792	1.93E-05	1.93E-06	1.53E-02	7.10E-07	8.85E-05	1.54E-02	5.3E-06	1.6E-05	1.3E-05	1.1E-05	4.9E-06	0.0E+00	0.0E+00	4.2E-06	3.6E-06	7.9E-07	8.6E-06
145	UCART1	481101.5	3774513.98	481101.5, 3774513.98	4.45725	4.90603	4.82609	0.00342	5.75006	1.68E-05	1.72E-06	1.36E-02	6.10E-07	8.57E-05	1.37E-02	4.7E-06	1.4E-05	1.1E-05	9.8E-06	4.4E-06	0.0E+00	0.0E+00	3.7E-06	3.2E-06	7.1E-07	7.7E-06
146	UCART1	481151.5	3774513.98	481151.5, 3774513.98	3.91789	4.44963	4.37406	0.00297	5.58298	1.47E-05	1.55E-06	1.22E-02	5.36E-07	8.32E-05	1.24E-02	4.3E-06	1.3E-05	1.0E-05	8.9E-06	4.0E-06	0.0E+00	0.0E+00	3.4E-06	2.9E-06	6.4E-07	7.0E-06
147	UCART1	481201.5	3774513.98	481201.5, 3774513.98	3.5155	3.99626	3.9299	0.00258	5.42669	1.32E-05	1.40E-06	1.11E-02	4.60E-07	8.09E-05	1.12E-02	3.9E-06	1.2E-05	9.2E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.8E-07	6.2E-06
148	UCART1	481251.5	3774513.98	481251.5, 3774513.98	3.18612	3.61322	3.55517	0.00226	5.28253	1.20E-05	1.27E-06	1.00E-02	4.03E-07	7.87E-05	1.01E-02	3.5E-06	1.1E-05	8.3E-06	7.2E-06	3.2E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.2E-07	5.7E-06
149	UCART1	481301.5	3774513.98	481301.5, 3774513.98	2.91708	3.29242	3.24086	0.002	5.11912	1.10E-05	1.15E-06	9.13E-03	3.57E-07	7.63E-05	9.22E-03	3.2E-06	9.6E-06	7.6E-06	6.6E-06	3.0E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.8E-07	5.2E-06
150	UCART1	481351.5	3774513.98	481351.5, 3774513.98	2.67277	3.00937	2.96437	0.00178	4.95703	1.01E-05	1.05E-06	8.35E-03	3.17E-07	7.39E-05	8.43E-03	2.9E-06	8.8E-06	7.0E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.7E-06
151	UCART1	481401.5	3774513.98	481401.5, 3774513.98	2.48218	2.7673	2.72632	0.00159	4.76567	9.34E-06	9.70E-07	7.68E-03	2.84E-07	7.10E-05	7.76E-03	2.7E-06	8.1E-06	6.4E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.3E-06
152	UCART1	481451.5	3774513.98	481451.5, 3774513.98	2.29096	2.54961	2.51391	0.00144	4.5646	8.62E-06	8.94E-07	7.08E-03	2.57E-07	6.80E-05	7.16E-03	2.5E-06	7.5E-06	5.9E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.7E-07	4.0E-06
153	UCART1	481501.5	3774513.98	481501.5, 3774513.98	2.14665	2.35107	2.31847	0.0013	4.33449	8.08E-06	8.24E-07	6.53E-03	2.32E-07	6.46E-05	6.60E-03	2.3E-06	6.9E-06	5.5E-06	4.7E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.4E-07	3.7E-06
154	UCART1	481551.5	3774513.98	481551.5, 3774513.98	1.99752	2.18393	2.15523	0.00119	4.09618	7.51E-06	7.65E-07	6.07E-03	2.12E-07	6.11E-05	6.14E-03	2.1E-06	6.4E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.4E-06	3.2E-07	3.4E-06
155	UCART1	479301.5	3774563.98	479301.5, 3774563.98	1.12069	1.05913	1.05876	0.00029	0.65902	4.22E-06	3.71E-07	2.98E-03	5.17E-08	9.82E-06	3.00E-03	1.0E-06	3.1E-06	2.5E-06	2.1E-06	9.6E-07	0.0E+00	0.0E+00	8.2E-07	7.1E-07	1.5E-07	1.7E-06
156	UCART1	479351.5	3774563.98	479351.5, 3774563.98	1.19925	1.13029	1.12979	0.00032	0.69257	4.51E-06	3.96E-07	3.18E-03	5.71E-08	1.03E-05	3.20E-03	1.1E-06	3.3E-06	2.6E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	8.7E-07	7.5E-07	1.6E-07	1.8E-06
157	UCART1	479401.5	3774563.98	479401.5, 3774563.98	1.28651	1.2089	1.20825	0.00035	0.72872	4.84E-06	4.24E-07	3.40E-03	6.24E-08	1.09E-05	3.42E-03	1.2E-06	3.6E-06	2.9E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	9.3E-07	8.1E-07	1.8E-07	1.9E-06
158	UCART1	479451.5	3774563.98	479451.5, 3774563.98	1.38512	1.29974	1.29659	0.00038	0.76848	5.21E-06	4.55E-07	3.65E-03	6.78E-08	1.15E-05	3.67E-03	1.3E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	1.0E-06	8.6E-07	1.9E-07	2.1E-06
159	UCART1	479501.5	3774563.98	479501.5, 3774563.98	1.49524	1.39562	1.39452	0.00041	0.8113	5.63E-06	4.89E-07	3.93E-03	7.31E-08	1.21E-05	3.95E-03	1.4E-06	4.1E-06	3.3E-06	2.8E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.3E-07	2.0E-07	2.2E-06
160	UCART1	479551.5	3774563.98	479551.5, 3774563.98	1.62105	1.50735	1.50593	0.00045	0.85872	6.10E-06	5.28E-07	4.24E-03	8.03E-08	1.28E-05	4.26E-03	1.5E-06	4.5E-06	3.5E-06	3.0E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.0E-06	2.2E-07	2.4E-06
161	UCART1	479601.5	3774563.98	479601.5, 3774563.98	1.76379	1.63322	1.63137	0.0005	0.91043	6.64E-06	5.72E-07	4.59E-03	8.92E-08	1.36E-05	4.62E-03	1.6E-06	4.8E-06	3.8E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.4E-07	2.6E-06
162	UCART1	479651.5	3774563.98	479651.5, 3774563.98	1.92874	1.77802	1.77562	0.00056	0.96804	7.26E-06	6.23E-07	5.00E

					Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s					Concentration (AVERAGE CONC) [ug/m^3]						Residential Dose					Risk by Age Group					
Discrete Receptor ID	X	Y	X, Y		Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
195 UCART1	481301.5	3774563.98	481301.5, 3774563.98		2.67261	2.99051	2.94282	0.00171	4.41277	1.01E-05	1.05E-06	8.29E-03	3.05E-07	6.58E-05	8.37E-03	2.9E-06	8.7E-06	6.9E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.7E-06
196 UCART1	481351.5	3774563.98	481351.5, 3774563.98		2.44835	2.74397	2.70215	0.00154	4.26887	9.21E-06	9.62E-07	7.61E-03	2.75E-07	6.36E-05	7.68E-03	2.7E-06	8.0E-06	6.3E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.3E-06
197 UCART1	481401.5	3774563.98	481401.5, 3774563.98		2.26356	2.52508	2.48714	0.00139	4.10972	8.52E-06	8.85E-07	7.00E-03	2.48E-07	6.13E-05	7.08E-03	2.4E-06	7.4E-06	5.8E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.7E-07	4.0E-06
198 UCART1	481451.5	3774563.98	481451.5, 3774563.98		2.1053	2.31854	2.28392	0.00127	3.92475	7.92E-06	8.13E-07	6.43E-03	2.27E-07	5.85E-05	6.50E-03	2.2E-06	6.8E-06	5.4E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.4E-07	3.6E-06
199 UCART1	481501.5	3774563.98	481501.5, 3774563.98		1.95859	2.15649	2.12577	0.00116	3.74905	7.37E-06	7.56E-07	5.99E-03	2.07E-07	5.59E-05	6.05E-03	2.1E-06	6.3E-06	5.0E-06	4.3E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.1E-07	3.4E-06
200 UCART1	481551.5	3774563.98	481551.5, 3774563.98		1.83408	2.00012	1.9723	0.00107	3.54543	6.90E-06	7.01E-07	5.55E-03	1.91E-07	5.29E-05	5.62E-03	1.9E-06	5.9E-06	4.6E-06	4.0E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.9E-07	3.1E-06
201 UCART1	479301.5	3774613.98	479301.5, 3774613.98		1.10617	1.04687	1.04613	0.00029	0.65102	4.16E-06	3.67E-07	2.95E-03	5.17E-08	9.70E-06	2.96E-03	1.0E-06	3.1E-06	2.4E-06	2.1E-06	9.5E-07	0.0E+00	0.0E+00	8.1E-07	7.0E-07	1.5E-07	1.7E-06
202 UCART1	479351.5	3774613.98	479351.5, 3774613.98		1.1817	1.11549	1.11457	0.00031	0.68323	4.45E-06	3.91E-07	3.14E-03	5.53E-08	1.02E-05	3.15E-03	1.1E-06	3.3E-06	2.6E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	8.6E-07	7.4E-07	1.6E-07	1.8E-06
203 UCART1	479401.5	3774613.98	479401.5, 3774613.98		1.26647	1.19233	1.19119	0.00034	0.71853	4.76E-06	4.18E-07	3.35E-03	6.06E-08	1.07E-05	3.37E-03	1.2E-06	3.5E-06	2.8E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	9.2E-07	7.9E-07	1.7E-07	1.9E-06
204 UCART1	479451.5	3774613.98	479451.5, 3774613.98		1.36076	1.27736	1.27594	0.00037	0.75657	5.12E-06	4.48E-07	3.59E-03	6.60E-08	1.13E-05	3.61E-03	1.2E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	9.8E-07	8.5E-07	1.9E-07	2.0E-06
205 UCART1	479501.5	3774613.98	479501.5, 3774613.98		1.46633	1.37208	1.37033	0.0004	0.79781	5.52E-06	4.81E-07	3.86E-03	7.13E-08	1.19E-05	3.88E-03	1.3E-06	4.1E-06	3.2E-06	2.8E-06	1.2E-06	0.0E+00	0.0E+00	1.1E-06	9.1E-07	2.0E-07	2.2E-06
206 UCART1	479551.5	3774613.98	479551.5, 3774613.98		1.58662	1.47978	1.47759	0.00044	0.84346	5.97E-06	5.19E-07	4.16E-03	7.85E-08	1.26E-05	4.18E-03	1.4E-06	4.4E-06	3.5E-06	3.0E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.9E-07	2.2E-07	2.3E-06
207 UCART1	479601.5	3774613.98	479601.5, 3774613.98		1.72173	1.59986	1.59712	0.00049	0.89271	6.48E-06	5.61E-07	4.50E-03	8.74E-08	1.33E-05	4.52E-03	1.6E-06	4.7E-06	3.7E-06	3.2E-06	1.5E-06	0.0E+00	0.0E+00	1.2E-06	1.1E-06	2.3E-07	2.5E-06
208 UCART1	479651.5	3774613.98	479651.5, 3774613.98		1.87736	1.73784	1.73439	0.00054	0.9476	7.06E-06	6.09E-07	4.88E-03	9.63E-08	1.41E-05	4.91E-03	1.7E-06	5.1E-06	4.1E-06	3.5E-06	1.6E-06	0.0E+00	0.0E+00	1.3E-06	1.2E-06	2.5E-07	2.7E-06
209 UCART1	479701.5	3774613.98	479701.5, 3774613.98		2.05415	1.89333	1.88896	0.0006	1.00713	7.73E-06	6.64E-07	5.32E-03	1.07E-07	1.50E-05	5.34E-03	1.8E-06	5.6E-06	4.4E-06	3.8E-06	1.7E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.8E-07	3.0E-06
210 UCART1	479751.5	3774613.98	479751.5, 3774613.98		2.25999	2.07386	2.06827	0.00068	1.0738	8.50E-06	7.27E-07	5.82E-03	1.21E-07	1.60E-05	5.85E-03	2.0E-06	6.1E-06	4.8E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.3E-06
211 UCART1	479801.5	3774613.98	479801.5, 3774613.98		2.49724	2.28026	2.27308	0.00076	1.14675	9.38E-06	7.99E-07	6.40E-03	1.36E-07	1.71E-05	6.43E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
212 UCART1	479851.5	3774613.98	479851.5, 3774613.98		2.77613	2.52201	2.51267	0.00087	1.22854	1.04E-05	8.84E-07	7.09E-03	1.55E-07	1.83E-05	7.11E-03	2.5E-06	7.4E-06	5.9E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.7E-07	4.0E-06
213 UCART1	479901.5	3774613.98	479901.5, 3774613.98		3.10371	2.80423	2.79196	0.00099	1.31935	1.17E-05	9.83E-07	7.86E-03	1.77E-07	1.97E-05	7.90E-03	2.7E-06	8.3E-06	6.5E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.1E-07	4.4E-06
214 UCART1	479951.5	3774613.98	479951.5, 3774613.98		3.49124	3.13631	3.12001	0.00114	1.42057	1.31E-05	1.10E-06	8.79E-03	2.03E-07	2.12E-05	8.82E-03	3.1E-06	9.2E-06	7.3E-06	6.3E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	4.9E-06
215 UCART1	480001.5	3774613.98	480001.5, 3774613.98		3.95659	3.53512	3.51314	0.00133	1.53544	1.49E-05	1.24E-06	9.89E-03	2.37E-07	2.29E-05	9.93E-03	3.4E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.6E-06
216 UCART1	480051.5	3774613.98	480051.5, 3774613.98		4.51122	4.00879	3.97882	0.00156	1.66312	1.70E-05	1.40E-06	1.12E-02	2.78E-07	2.48E-05	1.12E-02	3.9E-06	1.2E-05	9.3E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.8E-07	6.3E-06
217 UCART1	480101.5	3774613.98	480101.5, 3774613.98		5.18208	4.58624	4.54462	0.00184	1.80857	1.95E-05	1.61E-06	1.28E-02	3.28E-07	2.70E-05	1.28E-02	4.4E-06	1.3E-05	1.1E-05	9.2E-06	4.1E-06	0.0E+00	0.0E+00	3.5E-06	3.0E-06	6.6E-07	7.2E-06
218 UCART1	480151.5	3774613.98	480151.5, 3774613.98		5.9833	5.28122	5.22269	0.00217	1.97044	2.25E-05	1.85E-06	1.47E-02	3.87E-07	2.94E-05	1.48E-02	5.1E-06	1.5E-05	1.2E-05	1.1E-05	4.7E-06	0.0E+00	0.0E+00	4.0E-06	3.5E-06	7.6E-07	8.3E-06
219 UCART1	480201.5	3774613.98	480201.5, 3774613.98		6.93852	6.1299	6.04631	0.00259	2.1529	2.61E-05	2.15E-06	1.70E-02	4.62E-07	3.21E-05	1.71E-02	5.9E-06	1.8E-05	1.4E-05	1.2E-05	5.5E-06	0.0E+00	0.0E+00	4.7E-06	4.0E-06	8.8E-07	9.6E-06
220 UCART1	480251.5	3774613.98	480251.5, 3774613.98		8.05377	7.1631	7.04228	0.00307	2.35743	3.03E-05	2.51E-06	1.98E-02	5.48E-07	3.51E-05	1.99E-02	6.9E-06	2.1E-05	1.6E-05	1.4E-05	6.4E-06	0.0E+00	0.0E+00	5.4E-06	4.7E-06	1.0E-06	1.1E-05
221 UCART1	480301.5	3774613.98	480301.5, 3774613.98		9.30453	8.40239	8.2268	0.00363	2.58423	3.50E-05	2.94E-06	2.32E-02	6.47E-07	3.85E-05	2.32E-02	8.0E-06	2.4E-05	1.9E-05	1.7E-05	7.5E-06	0.0E+00	0.0E+00	6.3E-06	5.5E-06	1.2E-06	1.3E-05
222 UCART1	480351.5	3774613.98	480351.5, 3774613.98		10.61759	9.84045	9.58713	0.00423	2.83197	3.99E-05	3.45E-06	2.70E-02	7.54E-07	4.22E-05	2.71E-02	9.4E-06	2.8E-05	2.2E-05	1.9E-05	8.7E-06	0.0E+00	0.0E+00	7.4E-06	6.4E-06	1.4E-06	1.5E-05
223 UCART1	480401.5	3774613.98	480401.5, 3774613.98		11.86264	11.41272	11.05649	0.00479	3.09866	4.46E-05	4.00E-06	3.11E-02	8.54E-07	4.62E-05	3.12E-02	1.1E-05	3.3E-05	2.6E-05	2.2E-05	1.0E-05	0.0E+00	0.0E+00	8.5E-06	7.4E-06	1.6E-06	1.7E-05
224 UCART1	480451.5	3774613.98	480451.5, 3774613.98		12.87046	12.97208	12.49325	0.00517	3.38395	4.84E-05	4.55E-06	3.52E-02	9.22E-07	5.04E-05	3.53E-02	1.2E-05	3.7E-05	2.9E-05	2.5E-05	1.1E-05	0.0E+00	0.0E+00	9.6E-06	8.3E-06	1.8E-06	2.0E-05
225 UCART1	480501.5	3774613.98	480501.5, 3774613.98		13.49764	14.21952	13.62898	0.00531	3.67827	5.08E-05	4.98E-06	3.84E-02	9.47E-07	5.48E-05	3.85E-02	1.3E-05	4.0E-05	3.2E-05	2.8E-05	1.2E-05	0.0E+00	0.0E+00	1.0E-05	9.1E-06	2.0E-06	2.2E-05
226 UCART1	480551.5	3774613.98	480551.5, 3774613.98		13.65531	14.86027	14.19979	0.00514	3.97515	5.14E-05	5.21E-06	4.00E-02	9.17E-07	5.93E-05	4.01E-02	1.4E-05	4.2E-05	3.3E-05	2.9E-05	1.3E-05	0.0E+00	0.0E+00	1.1E-05	9.5E-06	2.1E-06	2.2E-05
227 UCART1	480601.5	3774613.98	480601.5, 3774613.98		13.33747	14.71579	14.05458	0.00479	4.25869	5.02E-05	5.16E-06	3.96E-02	8.54E-07	6.35E-05	3.97E-02	1.4E-05	4.1E-05	3.3E-05	2.8E-05	1.3E-05	0.0E+00	0.0E+00	1.1E-05	9.4E-06	2.0E-06	2.2E-05
228 UCART1	480651.5	3774613.98	480651.5, 3774613.98		12.56513	13.81711	13.22311	0.00447	4.51336	4.73E-05	4.84E-06	3.72E-02	7.97E-07	6.73E-05	3.74E-02	1.3E-05	3.9E-05	3.1E-05	2.7E-05	1.2E-05	0.0E+00	0.0E+00	1.0E-05	8.8E-06	1.9E-06	2.1E-05
229 UCART1	480701.5	3774613.98	480701.5, 3774613.98		11.46602	12.45027	11.96065	0.00427	4.70962	4.31E-05	4.36E-06	3.37E-02	7.62E-07	7.02E-05	3.38E-02	1.2E-05	3.5E-05	2.8E-05	2.4E-05	1.1E-05	0.0E+00	0.0E+00	9.2E-06	8.0E-06	1.7E-06	1.9E-05
230 UCART1	480751.5	3774613.98	480751.5, 3774613.98		10.15987	10.88682	10.50789	0.00403	4.82948	3.82E-05	3.82E-06	2.96E-02	7.19E-07	7.20E-05	2.97E-02	1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.5E-06	0.0E+00	0.0E+00	8.1E-06	7.0E-06	1.5E-06	1.7E-05
231 UCART1	480801.5	3774613.98	480801.5, 3774613.98		8.8363	9.3894	9.10465	0.00379	4.86761	3.32E-05	3.29E-06	2.56E-02	6.76E-07	7.26E-05	2.58E-02	8.9E-06	2.7E-05	2.1E-05	1.8E-05	8.3E-06	0.0E+00	0.0E+00	7.0E-06	6.1E-06	1.3E-06	1.4E-05
232 UCART1	480851.5	3774613.98	480851.5, 3774613.98		7.59293	8.04742	7.83586	0.00353	4.83643	2.86E-05	2.82E-06	2.21E-02	6.30E-07	7.21E-05	2.22E-02	7.7E-06	2.3E-05	1.8E-05	1.6E-05	7.1E-06	0.0E+00	0.0E+00	6.0E-06	5.2E-06	1.1E-06	1.2E-05
233 UCART1	480901.5	3774613.98	480901.5, 3774613.98		6.51933	6.91901	6.76048	0.00325	4.76109	2.45E-05	2.42E-06	1.90E-02	5.80E-07	7.10E-05	1.91E-02	6.6E-06	2.0E-05	1.6E-05	1.4E-05	6.1E-06	0.0E+00	0.0E+00	5.2E-06	4.5E-06	9.9E-07	1.1E-05
234 UCART1	480951.5	3774613.98	480951.5, 3774613.98		5.60467	5.96799	5.84298	0.00296	4.66087	2.11E-05	2.09E-06	1.65E-02	5.28E-07	6.95E-05	1.65E-02	5.7E-06	1.7E-05	1.4E-05	1.2E-05	5.3E-06	0.0E+00	0.0E+00	4.5E-06	3.9E-06	8.5E-07	9.3E-06
235 UCART1	481001.5	3774613.98	481001.5, 3774613.98		4.86286	5.19581	5.07292	0.00269	4.55294	1.83E-05	1.81E-06	1.44E-02	4.80E-07	6.79E-05	1.44E-02	4.9E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.5E-07	8.1E-06
236 UCART1	481051.5	3774613.98	481051.5, 3774613.98		4.24776	4.55555	4.47567	0.00242	4.44194	1.60E-05	1.60E-06	1.26E-02	4.32E-07	6.62E-05	1.27E-02	4.4E-06	1.3E-05	1.0E-05	9.1E-06	4.1E-06	0.0E+00	0.0E+00	3.5E-06	3.0E-06	6.5E-07	7.1E-06
237 UCART1	481101.5	3774613.98	481101.5, 3774613.98		3.74737	4.03985	3.96957	0.00219	4.33283	1.41E-05	1.42E-06	1.12E-02	3.91E-07	6.46E-05	1.13E-02	3.9E-06	1.2E-05	9.3E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.8E-07	6.3E-06
238 UCART1	481151.5	3774613.98	481151.5, 3774613.98		3.33441	3.61789	3.55772	0.00197	4.22412	1.25E-05	1.27E-06	1.00E-02	3.51E-07	6.30E-05	1.01E-02	3.5E-06	1.1E-05	8.3E-06	7.2E-06	3.2E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.2E-07	5.7E-06
239 UCART1	481201.5	3774613.98	481201.5, 3774613.98		2.99226	3.26479	3.21233	0.00178	4.09282	1.13E-05	1.14E-06	9.05E-03	3.17E-07	6.10E-05	9.12E-03	3.2E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.7E-07	5.1E-06
240 UCART1	481251.5	3774613.98	481251.5, 3774613.98		2.70654	2.96881	2.92259	0.00161	3.97354	1.02E-05	1.04E-06	8.23E-03	2.87E-07	5.92E-05	8.30E-03	2.9E-06	8.7E-06	6.9E-06	5.9E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.6E-06
241 UCART1	481301.5	3774613.98	481301.5, 3774613.98		2.46612	2.71676	2.67558	0.00146	3.85505	9.28E-06	9.52E-07	7.54E-03	2.60E-07	5.75E-05	7.60E-03	2.6E-06	7.9E-06	6.3E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.3E-06
242 UCART1	481351.5	3774613.98	481351.5, 3774613.98		2.26192	2.49558	2.45837	0.00133	3.72154	8.51E-06	8.75E-07	6.92E-03	2.37E-07	5.55E-05	6.99E-03	2.4E-06	7.3E-06	5.8E-06	5.0E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.6E-07	3.9E-06
243 UCART1	481401.5	3774613.98	481401.5, 3774613.98		2.08694	2.29776	2.26404	0.00122	3.57986	7.85E-06	8.05E-07	6.38E-03	2.18E-07	5.34E-05	6.44E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
244 UCART1	481451.5	3774613.98	481451.5, 3774613.98		1.93577	2.11724	2.08664	0.00112	3.43435	7.28E-06	7.42E-07	5.88E-03	2.00E-07	5.12E-05	5.94E-03	2.1E-06	6.2E-06	4.9E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.1E-07	3.3E-06
245 UCART1	481501.5	3774613.98	481501.5, 3774613.98		1.80423	1.95596	1.92811	0.00104	3.27248	6.79E-06	6.85E-07	5.43E-03	1.86E-07	4.88E-05	5.49E-03	1.9E-06	5.7E-06	4.5E-06	3.9E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.8E-07	3.1E-06
246 UCART1	481551.5	3774613.98	481551.5, 3774613.98		1.68871	1.82419	1.79887	0.00096	3.10962	6.35E-06	6.39E-07	5.07E-03	1.71E-07	4.64E-05	5.12E-03	1.8E-06	5.4E-06	4.2E-06	3.7E-06	1.6E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.6E-07	2.9E-06
247 UCART1	479301.5	3774663.98	479301.5, 3774663.98		1.08867	1.03193	1.03083	0.00029	0.64196	4.10E-06	3.62E-07	2.90E-03	5.10E-08	4.99E-08	9.57E-06	2.9E-03	1.0E-06	8.0E-06	2.4E-06	2.1E-06	9.4E-07	0.0E+00	0.0E+00	7.9E-07	6.9E-07	1.5E-07	1.6E-06
248 UCART1	479351.5	3774663.98	479351.5, 3774663.98		1.16134	1.09825	1.09694	0.00031	0.67308	4.37E-06	3.85E-07	3.09E-03	5.53E-08	1.00E-05	3.10E-03	1.1E-06	3.2E-06	2.6E-06	2.2E-06	1.0E-06	0.0E+00	0.0E+00	8.5E-07	7.3E-07	1.6E-07	1.7E-06
249 UCART1	479401.5	3774663.98	479401.5, 3774663.98		1.24277	1.1725	1.17091	0.00033	0.70719	4.68E-06	4.11E-07	3.30E-03	5.89E-08	1.05E-05	3.31E-03	1.1E-06	3.5E-06	2.7E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	9.0E-07	7.8E-07	1.7E-07	1.9E-06
250 UCART1	479451.5	3774663.98	479451.5, 3774663.98		1.33268	1.25405	1.25212	0.00036	0.74367	5.01E-06	4.39E-07	3.53E-03	6.42E-08	1.11E-05	3.54E-03	1.2E-06	3.7E-06	2.9E-06	2.5E-06	1.1E-06	0.0E+00	0.0E+00	9.7E-07	8.4E-07	1.8E-07	2.0E-06
251 UCART1	479501.5	3774663.98	479501.5, 3774663.98		1.43376	1.34554	1.34319	0.00039	0.78359	5.39E-06	4.72E-07	3.78E-03	6.96E-08	1.17E-05	3.80E-03	1.3E-06	4.0E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	1.0E-06	9.0E-07	2.0E-07	2.1E-06
252 UCART1	479551.5	3774663.98	479551.5, 3774663.98		1.547	1.44759	1.44472	0.00043	0.82686	5.82E-06	5.07E-07	4.07E-03	7.67E-08	1.23E-05	4.09E-03	1.4E-06	4.3E-06	3.4E-06	2.9E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.6E-07	2.1E-07	2.3E-06
253 UCART1	479601.5	3774663.98	479601.5, 3774663.98		1.67469	1.56225	1.55873	0.00047	0.87404	6.30E-06	5.47E-07	4.39E-03	8.38E-08	1.30E-05	4.41E-03	1.5E-06	4.6E-06	3.6E-06	3.2E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.0E-06	2.3E-07	2.5E-06
254 UCART1	479651.5	3774663.98	479651.5, 3774663.98		1.8197	1.69204	1.68768	0.00052	0.92581	6.85E-06	5.93E-07	4.75E-03	9.28E-08	1.38E-05	4.77E-03	1.7E-06	5.0E-06	3.9E-06	3.4E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.5E-07	2.7E-06
255 UCART1	479701.5	3774663.98	479701.5, 3774663.98		1.98379	1.83811	1.83269	0.00058	0.98201	7.46E-06	6.44E-07	5.16E-03	1.03E-07	1.46E-05	5.18E-03	1.8E-06	5.4E-06	4.3E-06	3.7E-06	1.7E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.7E-07	2.9E-06
256 UCART1	479751.5	3774663.98	479751.5, 3774663.98		2.1733	2.00667	1.99987	0.00065	1.04469	8.18E-06	7.03E-07	5.63E-03	1.16E-07	1.56E-05	5.66E-03	2.0E-06	5.9E-06	4.7E-06	4.0E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.9E-07	3.2E-06
257 UCART1	479801.5	3774663.98	479801.5, 3774663.98		2.38937	2.19767	2.18909	0.00073	1.11279	8.99E-06	7.70E-07	6.17E-03	1.30E-07	1.66E-05	6.19E-03	2.1E-06	6.5E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.2E-07	3.5E-06
258 UCART1	479851.5	3774663.98	479851.5, 3774663.98		2.64078	2.41982	2.40888	0.00082	1.18887	9.93E-06	8.48E-07	6.78E-03	1.46E-07	1.77E-05	6.81E-03	2.4E-06	7.1E-06	5.6E-06	4.8E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.5E-07	3.8E-06
259 UCART1	479901.5	3774663.98	479901.5, 3774663.98		2.93097	2.67151	2.66108	0.00093	1.27225	1.10E-05	9.38E-07	7.49E-03	1.66E-07	1.90E-05	7.53E-03	2.6E-06	7.9E-06	6.2E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.2E-06
260 UCART1	479951.5	3774663.98	479951.5, 3774663.98		3.26902	2.97224	2.95398	0.00107	1.36463	1.23E-05	1.04E-06	8.32E-03	1.91E-07	2.03E-05	8.35E-03	2.9E-06	8.7E-06	6.9E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.7E-06
261 UCART1	480001.5	3774663.98	480001.5, 3774663.98		3.66682	3.32344	3.29944	0.00123	1.46847	1.38E-05	1.16E-06	9.29E-03	2.19E-07	2.19E-05	9.33E-03	3.2E-06	9.8E-06	7.7E-06	6.7E-06	3.0E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.8E-07	5.2E-06
262 UCART1	480051.5	3774663.98	480051.5, 3774663.98		4.13055	3.7342	3.70234	0.00143	1.58311	1.55E-05	1.31E-06	1.04E-02	2.55E-07	2.36E-05	1.05E-02	3.6E-06	1.1E-05	8.6E-06	7.5E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.4E-07	5.9E-06
263 UCART1	480101.5	3774663.98	480101.5, 3774663.98		4.67263	4.21966	4.17691	0.00166	1.71086	1.76E-05	1.48E

Discrete Receptor ID				Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s					Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group					
	X	Y	X, Y	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
296 UCART1	479451.5	3774713.98	479451.5, 3774713.98	1.30142	1.22793	1.22555	0.00035	0.72993	4.90E-06	4.30E-07	3.45E-03	6.24E-08	1.09E-05	3.47E-03	1.2E-06	3.6E-06	2.9E-06	2.5E-06	1.1E-06	0.0E+00	0.0E+00	9.4E-07	8.2E-07	1.8E-07	1.9E-06
297 UCART1	479501.5	3774713.98	479501.5, 3774713.98	1.39738	1.31552	1.31266	0.00038	0.76832	5.26E-06	4.61E-07	3.70E-03	6.78E-08	1.15E-05	3.71E-03	1.3E-06	3.9E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	1.0E-06	8.8E-07	1.9E-07	2.1E-06
298 UCART1	479551.5	3774713.98	479551.5, 3774713.98	1.50341	1.4118	1.40835	0.00041	0.80928	5.66E-06	4.95E-07	3.97E-03	7.31E-08	1.21E-05	3.98E-03	1.4E-06	4.2E-06	3.3E-06	2.8E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.4E-07	2.1E-07	2.2E-06
299 UCART1	479601.5	3774713.98	479601.5, 3774713.98	1.62351	1.52085	1.51666	0.00045	0.8545	6.11E-06	5.33E-07	4.27E-03	8.03E-08	1.27E-05	4.29E-03	1.5E-06	4.5E-06	3.5E-06	3.1E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.0E-06	2.2E-07	2.4E-06
300 UCART1	479651.5	3774713.98	479651.5, 3774713.98	1.75733	1.64173	1.63662	0.0005	0.90297	6.61E-06	5.75E-07	4.61E-03	8.92E-08	1.35E-05	4.63E-03	1.6E-06	4.8E-06	3.8E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.4E-07	2.6E-06
301 UCART1	479701.5	3774713.98	479701.5, 3774713.98	1.90951	1.77914	1.77287	0.00055	0.95643	7.18E-06	6.23E-07	4.99E-03	9.81E-08	1.43E-05	5.02E-03	1.7E-06	5.2E-06	4.1E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.6E-07	2.8E-06
302 UCART1	479751.5	3774713.98	479751.5, 3774713.98	2.08138	1.93382	1.92608	0.00062	1.01449	7.83E-06	6.78E-07	5.42E-03	1.11E-07	1.51E-05	5.45E-03	1.9E-06	5.7E-06	4.5E-06	3.9E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.8E-07	3.0E-06
303 UCART1	479801.5	3774713.98	479801.5, 3774713.98	2.27697	2.10958	2.09996	0.00069	1.0781	8.57E-06	7.39E-07	5.91E-03	1.23E-07	1.61E-05	5.94E-03	2.1E-06	6.2E-06	4.9E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.1E-07	3.3E-06
304 UCART1	479851.5	3774713.98	479851.5, 3774713.98	2.50099	2.311	2.29894	0.00077	1.14828	9.41E-06	8.10E-07	6.47E-03	1.37E-07	1.71E-05	6.50E-03	2.3E-06	6.8E-06	5.4E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.4E-07	3.6E-06
305 UCART1	479901.5	3774713.98	479901.5, 3774713.98	2.75601	2.53988	2.52466	0.00087	1.22467	1.04E-05	8.90E-07	7.11E-03	1.55E-07	1.83E-05	7.14E-03	2.5E-06	7.5E-06	5.9E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.7E-07	4.0E-06
306 UCART1	479951.5	3774713.98	479951.5, 3774713.98	3.05049	2.80566	2.78627	0.00099	1.3098	1.15E-05	9.83E-07	7.85E-03	1.77E-07	1.95E-05	7.88E-03	2.7E-06	8.2E-06	6.5E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.9E-06	4.1E-07	4.4E-06
307 UCART1	480001.5	3774713.98	480001.5, 3774713.98	3.38579	3.10877	3.0839	0.00114	1.40231	1.27E-05	1.09E-06	8.69E-03	2.03E-07	2.09E-05	8.72E-03	3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.5E-07	4.9E-06
308 UCART1	480051.5	3774713.98	480051.5, 3774713.98	3.7705	3.46022	3.42806	0.0013	1.50473	1.42E-05	1.21E-06	9.65E-03	2.32E-07	2.24E-05	9.69E-03	3.4E-06	1.0E-05	8.0E-06	6.9E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	5.0E-07	5.4E-06
309 UCART1	480101.5	3774713.98	480101.5, 3774713.98	4.20755	3.86504	3.82315	0.0015	1.61713	1.58E-05	1.35E-06	1.08E-02	2.68E-07	2.41E-05	1.08E-02	3.7E-06	1.1E-05	8.9E-06	7.7E-06	3.5E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.6E-07	6.1E-06
310 UCART1	480151.5	3774713.98	480151.5, 3774713.98	4.69944	4.33102	4.27615	0.00173	1.7406	1.77E-05	1.52E-06	1.20E-02	3.09E-07	2.59E-05	1.21E-02	4.2E-06	1.3E-05	1.0E-05	8.6E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.8E-06	6.2E-07	6.8E-06
311 UCART1	480201.5	3774713.98	480201.5, 3774713.98	5.24124	4.85955	4.78757	0.00198	1.87456	1.97E-05	1.70E-06	1.35E-02	3.53E-07	2.79E-05	1.35E-02	4.7E-06	1.4E-05	1.1E-05	9.7E-06	4.3E-06	0.0E+00	0.0E+00	3.7E-06	3.2E-06	7.0E-07	7.6E-06
312 UCART1	480251.5	3774713.98	480251.5, 3774713.98	5.8237	5.45538	5.36098	0.00227	2.02072	2.19E-05	1.91E-06	1.51E-02	4.05E-07	3.01E-05	1.52E-02	5.2E-06	1.6E-05	1.3E-05	1.1E-05	4.9E-06	0.0E+00	0.0E+00	4.1E-06	3.6E-06	7.8E-07	8.5E-06
313 UCART1	480301.5	3774713.98	480301.5, 3774713.98	6.42155	6.10103	5.97843	0.00257	2.17599	2.42E-05	2.14E-06	1.68E-02	4.58E-07	3.24E-05	1.69E-02	5.8E-06	1.8E-05	1.4E-05	1.2E-05	5.4E-06	0.0E+00	0.0E+00	4.6E-06	4.0E-06	8.7E-07	9.5E-06
314 UCART1	480351.5	3774713.98	480351.5, 3774713.98	7.00094	6.77876	6.62202	0.00286	2.34127	2.63E-05	2.38E-06	1.86E-02	5.10E-07	3.49E-05	1.87E-02	6.5E-06	2.0E-05	1.5E-05	1.3E-05	6.0E-06	0.0E+00	0.0E+00	5.1E-06	4.4E-06	9.7E-07	1.0E-05
315 UCART1	480401.5	3774713.98	480401.5, 3774713.98	7.51329	7.44366	7.24862	0.0031	2.51426	2.83E-05	2.61E-06	2.04E-02	5.53E-07	3.75E-05	2.05E-02	7.1E-06	2.1E-05	1.7E-05	1.5E-05	6.6E-06	0.0E+00	0.0E+00	5.6E-06	4.8E-06	1.1E-06	1.1E-05
316 UCART1	480451.5	3774713.98	480451.5, 3774713.98	7.90867	8.02852	7.79531	0.00326	2.69168	2.98E-05	2.81E-06	2.20E-02	5.81E-07	4.01E-05	2.20E-02	7.6E-06	2.3E-05	1.8E-05	1.6E-05	7.1E-06	0.0E+00	0.0E+00	6.0E-06	5.2E-06	1.1E-06	1.2E-05
317 UCART1	480501.5	3774713.98	480501.5, 3774713.98	8.14793	8.45826	8.19336	0.00332	2.86843	3.07E-05	2.96E-06	2.31E-02	5.92E-07	4.28E-05	2.32E-02	8.0E-06	2.4E-05	1.9E-05	1.7E-05	7.4E-06	0.0E+00	0.0E+00	6.3E-06	5.5E-06	1.2E-06	1.3E-05
318 UCART1	480551.5	3774713.98	480551.5, 3774713.98	8.20316	8.66582	8.38232	0.00323	3.03973	3.09E-05	3.04E-06	2.36E-02	5.76E-07	4.53E-05	2.37E-02	8.2E-06	2.5E-05	2.0E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	6.5E-06	5.6E-06	1.2E-06	1.3E-05
319 UCART1	480601.5	3774713.98	480601.5, 3774713.98	8.06413	8.61205	8.32749	0.00304	3.1993	3.03E-05	3.02E-06	2.35E-02	5.42E-07	4.77E-05	2.35E-02	8.1E-06	2.5E-05	1.9E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	6.4E-06	5.5E-06	1.2E-06	1.3E-05
320 UCART1	480651.5	3774713.98	480651.5, 3774713.98	7.75317	8.31719	8.04835	0.00284	3.3381	2.92E-05	2.91E-06	2.27E-02	5.07E-07	4.98E-05	2.27E-02	7.9E-06	2.4E-05	1.9E-05	1.6E-05	7.3E-06	0.0E+00	0.0E+00	6.2E-06	5.4E-06	1.2E-06	1.3E-05
321 UCART1	480701.5	3774713.98	480701.5, 3774713.98	7.29235	7.82067	7.58054	0.00263	3.45	2.74E-05	2.74E-06	2.13E-02	4.69E-07	5.14E-05	2.14E-02	7.4E-06	2.2E-05	1.8E-05	1.5E-05	6.9E-06	0.0E+00	0.0E+00	5.8E-06	5.1E-06	1.1E-06	1.2E-05
322 UCART1	480751.5	3774713.98	480751.5, 3774713.98	6.742	7.2109	7.0053	0.00246	3.52944	2.54E-05	2.53E-06	1.97E-02	4.39E-07	5.26E-05	1.98E-02	6.9E-06	2.1E-05	1.6E-05	1.4E-05	6.4E-06	0.0E+00	0.0E+00	5.4E-06	4.7E-06	1.0E-06	1.1E-05
323 UCART1	480801.5	3774713.98	480801.5, 3774713.98	6.14071	6.54675	6.37641	0.0023	3.57512	2.31E-05	2.29E-06	1.80E-02	4.10E-07	5.33E-05	1.80E-02	6.2E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.9E-06	4.3E-06	9.3E-07	1.0E-05
324 UCART1	480851.5	3774713.98	480851.5, 3774713.98	5.5351	5.88852	5.75016	0.00215	3.58955	2.08E-05	2.06E-06	1.62E-02	3.83E-07	5.35E-05	1.63E-02	5.6E-06	1.7E-05	1.3E-05	1.2E-05	5.2E-06	0.0E+00	0.0E+00	4.4E-06	3.8E-06	8.4E-07	9.1E-06
325 UCART1	480901.5	3774713.98	480901.5, 3774713.98	4.94549	5.23993	5.1285	0.002	3.57717	1.86E-05	1.84E-06	1.44E-02	3.57E-07	5.33E-05	1.45E-02	5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.7E-06	0.0E+00	0.0E+00	4.0E-06	3.4E-06	7.5E-07	8.1E-06
326 UCART1	480951.5	3774713.98	480951.5, 3774713.98	4.41637	4.64885	4.55891	0.00187	3.54534	1.66E-05	1.63E-06	1.28E-02	3.34E-07	5.28E-05	1.29E-02	4.5E-06	1.3E-05	1.1E-05	9.2E-06	4.1E-06	0.0E+00	0.0E+00	3.5E-06	3.0E-06	6.7E-07	7.2E-06
327 UCART1	481001.5	3774713.98	481001.5, 3774713.98	3.94114	4.07858	4.00539	0.00173	3.49877	1.48E-05	1.43E-06	1.13E-02	3.09E-07	5.22E-05	1.13E-02	3.9E-06	1.2E-05	9.4E-06	8.1E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.9E-07	6.4E-06
328 UCART1	481051.5	3774713.98	481051.5, 3774713.98	3.51778	3.64264	3.58199	0.0016	3.44097	1.32E-05	1.28E-06	1.01E-02	2.85E-07	5.13E-05	1.02E-02	3.5E-06	1.1E-05	8.4E-06	7.3E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.2E-07	5.7E-06
329 UCART1	481101.5	3774713.98	481101.5, 3774713.98	3.16298	3.28898	3.23781	0.00148	3.35466	1.19E-05	1.15E-06	9.12E-03	2.64E-07	5.00E-05	9.18E-03	3.2E-06	9.6E-06	7.6E-06	6.6E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.7E-07	5.1E-06
330 UCART1	481151.5	3774713.98	481151.5, 3774713.98	2.84394	2.96648	2.92268	0.00137	3.27486	1.07E-05	1.04E-06	8.23E-03	2.44E-07	4.88E-05	8.29E-03	2.9E-06	8.7E-06	6.8E-06	5.9E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.6E-06
331 UCART1	481201.5	3774713.98	481201.5, 3774713.98	2.58301	2.71067	2.67261	0.00126	3.19633	9.72E-06	9.50E-07	7.53E-03	2.25E-07	4.76E-05	7.59E-03	2.6E-06	7.9E-06	6.3E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.2E-06
332 UCART1	481251.5	3774713.98	481251.5, 3774713.98	2.34701	2.47553	2.44194	0.00117	3.11009	8.83E-06	8.68E-07	6.88E-03	2.09E-07	4.64E-05	6.93E-03	2.4E-06	7.2E-06	5.7E-06	5.0E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.6E-07	3.9E-06
333 UCART1	481301.5	3774713.98	481301.5, 3774713.98	2.15126	2.28129	2.25133	0.00108	3.02009	8.09E-06	7.99E-07	6.34E-03	1.93E-07	4.50E-05	6.39E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.3E-07	3.6E-06
334 UCART1	481351.5	3774713.98	481351.5, 3774713.98	1.97371	2.09244	2.06523	0.00101	2.91805	7.43E-06	7.33E-07	5.82E-03	1.80E-07	4.35E-05	5.87E-03	2.0E-06	6.1E-06	4.8E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.3E-06
335 UCART1	481401.5	3774713.98	481401.5, 3774713.98	1.81962	1.91775	1.89306	0.00094	2.81284	6.85E-06	6.72E-07	5.33E-03	1.68E-07	4.19E-05	5.38E-03	1.9E-06	5.6E-06	4.4E-06	3.8E-06	1.7E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.8E-07	3.0E-06
336 UCART1	481451.5	3774713.98	481451.5, 3774713.98	1.69029	1.7815	1.75902	0.00087	2.70725	6.38E-06	6.24E-07	4.95E-03	1.55E-07	4.04E-05	5.00E-03	1.7E-06	5.2E-06	4.1E-06	3.5E-06	1.6E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.6E-07	2.8E-06
337 UCART1	481501.5	3774713.98	481501.5, 3774713.98	1.57101	1.64072	1.62011	0.00082	2.5807	5.91E-06	5.75E-07	4.56E-03	1.46E-07	3.85E-05	4.61E-03	1.6E-06	4.8E-06	3.8E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.4E-07	2.6E-06
338 UCART1	479301.5	3774763.98	479301.5, 3774763.98	1.04707	0.99621	0.99452	0.00027	0.62183	3.94E-06	3.49E-07	2.80E-03	4.82E-08	9.27E-06	2.81E-03	9.7E-07	2.9E-06	2.3E-06	2.0E-06	9.0E-07	0.0E+00	0.0E+00	7.7E-07	6.6E-07	1.5E-07	1.6E-06
339 UCART1	479351.5	3774763.98	479351.5, 3774763.98	1.1141	1.05823	1.05624	0.00029	0.65115	4.19E-06	3.71E-07	2.97E-03	5.17E-08	9.71E-06	2.99E-03	1.0E-06	3.1E-06	2.5E-06	2.1E-06	9.6E-07	0.0E+00	0.0E+00	8.1E-07	7.0E-07	1.5E-07	1.7E-06
340 UCART1	479401.5	3774763.98	479401.5, 3774763.98	1.18705	1.12542	1.12308	0.00031	0.68213	4.47E-06	3.94E-07	3.16E-03	5.53E-08	1.02E-05	3.18E-03	1.1E-06	3.3E-06	2.6E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	8.7E-07	7.5E-07	1.6E-07	1.8E-06
341 UCART1	479451.5	3774763.98	479451.5, 3774763.98	1.26791	1.19983	1.19705	0.00034	0.7157	4.77E-06	4.20E-07	3.37E-03	6.06E-08	1.07E-05	3.39E-03	1.2E-06	3.5E-06	2.8E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	9.2E-07	8.0E-07	1.7E-07	1.9E-06
342 UCART1	479501.5	3774763.98	479501.5, 3774763.98	1.35775	1.28239	1.27909	0.00037	0.75207	5.11E-06	4.49E-07	3.60E-03	6.60E-08	1.12E-05	3.62E-03	1.3E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	9.9E-07	8.5E-07	1.9E-07	2.0E-06
343 UCART1	479551.5	3774763.98	479551.5, 3774763.98	1.45683	1.37313	1.36919	0.0004	0.79096	5.48E-06	4.81E-07	3.86E-03	7.13E-08	1.18E-05	3.87E-03	1.3E-06	4.0E-06	3.2E-06	2.8E-06	1.2E-06	0.0E+00	0.0E+00	1.1E-06	9.1E-07	2.0E-07	2.2E-06
344 UCART1	479601.5	3774763.98	479601.5, 3774763.98	1.56837	1.47538	1.47065	0.00044	0.83374	5.90E-06	5.17E-07	4.14E-03	7.85E-08	1.24E-05	4.16E-03	1.4E-06	4.3E-06	3.4E-06	3.0E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.8E-07	2.1E-07	2.3E-06
345 UCART1	479651.5	3774763.98	479651.5, 3774763.98	1.69176	1.58802	1.58233	0.00048	0.8794	6.36E-06	5.57E-07	4.46E-03	8.56E-08	1.31E-05	4.48E-03	1.5E-06	4.7E-06	3.7E-06	3.2E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.1E-06	2.3E-07	2.5E-06
346 UCART1	479701.5	3774763.98	479701.5, 3774763.98	1.83098	1.71522	1.7083	0.00053	0.92952	6.89E-06	6.01E-07	4.81E-03	9.45E-08	1.39E-05	4.83E-03	1.7E-06	5.1E-06	4.0E-06	3.5E-06	1.6E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.5E-07	2.7E-06
347 UCART1	479751.5	3774763.98	479751.5, 3774763.98	1.98676	1.85728	1.84884	0.00059	0.98369	7.47E-06	6.51E-07	5.21E-03	1.05E-07	1.47E-05	5.23E-03	1.8E-06	5.5E-06	4.3E-06	3.7E-06	1.7E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.7E-07	2.9E-06
348 UCART1	479801.5	3774763.98	479801.5, 3774763.98	2.16324	2.01856	2.00821	0.00065	1.04328	8.14E-06	7.07E-07	5.66E-03	1.16E-07	1.56E-05	5.68E-03	2.0E-06	6.0E-06	4.7E-06	4.1E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.9E-07	3.2E-06
349 UCART1	479851.5	3774763.98	479851.5, 3774763.98	2.36073	2.19869	2.18594	0.00073	1.10737	8.88E-06	7.71E-07	6.16E-03	1.30E-07	1.65E-05	6.18E-03	2.1E-06	6.5E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.2E-07	3.5E-06
350 UCART1	479901.5	3774763.98	479901.5, 3774763.98	2.58358	2.40241	2.38659	0.00082	1.17725	9.72E-06	8.42E-07	6.72E-03	1.46E-07	1.75E-05	6.75E-03	2.3E-06	7.1E-06	5.6E-06	4.8E-06	2.2E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.5E-07	3.8E-06
351 UCART1	479951.5	3774763.98	479951.5, 3774763.98	2.83686	2.6358	2.61602	0.00092	1.25454	1.07E-05	9.24E-07	7.37E-03	1.64E-07	1.87E-05	7.40E-03	2.6E-06	7.7E-06	6.1E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
352 UCART1	480001.5	3774763.98	480001.5, 3774763.98	3.11989	2.89766	2.87282	0.00104	1.33774	1.17E-05	1.02E-06	8.09E-03	1.86E-07	1.99E-05	8.12E-03	2.8E-06	8.5E-06	6.7E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.5E-06
353 UCART1	480051.5	3774763.98	480051.5, 3774763.98	3.43877	3.19712	3.16571	0.00119	1.42952	1.29E-05	1.12E-06	8.92E-03	2.12E-07	2.13E-05	8.95E-03	3.1E-06	9.4E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	5.0E-06
354 UCART1	480101.5	3774763.98	480101.5, 3774763.98	3.79061	3.53171	3.49193	0.00135	1.52805	1.43E-05	1.24E-06	9.83E-03	2.41E-07	2.28E-05	9.87E-03	3.4E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.5E-06
355 UCART1	480151.5	3774763.98	480151.5, 3774763.98	4.17717	3.90895	3.85838	0.00153	1.63563	1.57E-05	1.37E-06	1.09E-02	2.73E-07	2.44E-05	1.09E-02	3.8E-06	1.1E-05	9.0E-06	7.8E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.6E-07	6.1E-06
356 UCART1	480201.5	3774763.98	480201.5, 3774763.98	4.59134	4.32603	4.26184	0.00174	1.75138	1.73E-05	1.52E-06	1.20E-02	3.10E-07	2.61E-05	1.20E-02	4.2E-06	1.3E-05	9.9E-06	8.6E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.8E-06	6.2E-07	6.7E-06
357 UCART1	480251.5	3774763.98	480251.5, 3774763.98	5.02234	4.77866	4.69759	0.00195	1.87514	1.89E-05	1.67E-06	1.32E-02	3.48E-07	2.80E-05	1.33E-02	4.6E-06	1.4E-05	1.1E-05	9.5E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.9E-07	7.4E-06
358 UCART1	480301.5	3774763.98	480301.5, 3774763.98	5.4522	5.25329	5.15207	0.00217	2.00533	2.05E-05	1.84E-06	1.45E-02	3.87E-07	2.99E-05	1.46E-02	5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.7E-06	0.0E+00	0.0E+00	4.0E-06	3.4E-06	7.5E-07	8.2E-06
359 UCART1	480351.5	3774763.98	480351.5, 3774763.98	5.85671	5.73523	5.61087	0.00237	2.14292	2.20E-05	2.01E-06	1.58E-02	4.23E-07	3.19E-05	1.59E-02	5.5E-06	1.7E-05	1.3E-05	1.1E-05	5.1E-06	0.0E+00	0.0E+00	4.3E-06	3.7E-06	8.2E-07	8.9E-06
360 UCART1	480401.5	3774763.98	480401.5, 3774763.98	6.20772	6.08723	6.03856	0.00255	2.28349	2.34E-05	2.17E-06	1.70E-02	4.55E-07	3.40E-05	1.71E-02	5.9E-06	1.8E-05	1.4E-05	1.2E-05	5.5E-06	0.0E+00	0.0E+00	4.6E-06	4.0E-06	8.8E-07	9.6E-06
361 UCART1	480451.5	3774763.98	480451.5, 3774763.98	6.47292	6.57329	6.40129	0.00266	2.42661	2.44E-05	2.30E-06	1.80E-02	4.74E-07	3.62E-05	1.81E-02	6.3E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.9E-06	4.3E-06	9.3E-07	1.0E-05
362 UCART1	480501.5	3774763.98	480501.5, 3774763.98	6.63067	6.84929	6.65863	0.00269	2.5674	2.49E-05	2.40E-06	1.88E-02	4.80E-07	3.83E-05	1.88E-02	6.5E-06	2.0E-05	1.6E-05	1.3E-05	6.0E-06	0.0E+00	0.0E+00	5.1E-06	4.4E-06	9.7E-07	1.1E-05
363 UCART1	480551.5	3774763.98	480551.5, 3774763.98	6.66097	6.976	6.7747	0.00261	2.70322	2.51E-05	2.44E-06	1.91E-02	4.66E-07	4.03E-05	1.91E-02	6.6E-06	2.0E-05	1.6E-05	1.4E-05	6.2E-06	0.0E+00	0.0E+00	5.2E-06	4.5E-06	9.9E-07	1.1E-05
364 UCART1	480601.5	3774763.98	480601.5, 3774763.98	6.56909	6.9456	6.74317	0.00248	2.82741	2.47E-05	2.43E-06	1.90E-02	4.42E-07	4.21E-05	1.91E-02	6.6E-06	2.0E-05	1.6E-05	1.4E-05	6.1E-06	0.0

				Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s					Concentration (AVERAGE CONC) [ug/m^3]						Residential Dose					Risk by Age Group					
Discrete Receptor ID	X	Y	X, Y	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
397	UCART1	480001.5	3774813.98	480001.5, 3774813.98	2.87257	2.6947	2.67053	0.00096	1.27531	1.08E-05	9.44E-07	7.52E-03	1.71E-07	1.90E-05	7.55E-03	2.6E-06	7.9E-06	6.2E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.2E-06
398	UCART1	480051.5	3774813.98	480051.5, 3774813.98	3.13614	2.94761	2.91769	0.00108	1.35707	1.18E-05	1.03E-06	8.22E-03	1.93E-07	2.02E-05	8.25E-03	2.9E-06	8.6E-06	6.8E-06	5.9E-06	2.7E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.3E-07	4.6E-06
399	UCART1	480101.5	3774813.98	480101.5, 3774813.98	3.42075	3.2245	3.18749	0.00121	1.44395	1.29E-05	1.13E-06	8.98E-03	2.16E-07	2.15E-05	9.01E-03	3.1E-06	9.4E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.6E-07	5.0E-06
400	UCART1	480151.5	3774813.98	480151.5, 3774813.98	3.72639	3.5298	3.48398	0.00136	1.53788	1.40E-05	1.24E-06	9.81E-03	2.43E-07	2.29E-05	9.85E-03	3.4E-06	1.0E-05	8.1E-06	7.0E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.5E-06
401	UCART1	480201.5	3774813.98	480201.5, 3774813.98	4.04601	3.85903	3.80252	0.00152	1.63788	1.52E-05	1.35E-06	1.07E-02	2.71E-07	2.44E-05	1.08E-02	3.7E-06	1.1E-05	8.9E-06	7.7E-06	3.5E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.5E-07	6.0E-06
402	UCART1	480251.5	3774813.98	480251.5, 3774813.98	4.37043	4.20646	4.13725	0.00169	1.74354	1.64E-05	1.47E-06	1.17E-02	3.01E-07	2.66E-05	1.17E-02	4.0E-06	1.2E-05	9.7E-06	8.4E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.0E-07	6.5E-06
403	UCART1	480301.5	3774813.98	480301.5, 3774813.98	4.6863	4.56026	4.47655	0.00185	1.85344	1.76E-05	1.60E-06	1.26E-02	3.30E-07	2.76E-05	1.27E-02	4.4E-06	1.3E-05	1.0E-05	9.0E-06	4.1E-06	0.0E+00	0.0E+00	3.4E-06	3.0E-06	6.5E-07	7.1E-06
404	UCART1	480351.5	3774813.98	480351.5, 3774813.98	4.97703	4.90918	4.80955	0.00199	1.9684	1.87E-05	1.72E-06	1.35E-02	3.55E-07	2.93E-05	1.36E-02	4.7E-06	1.4E-05	1.1E-05	9.7E-06	4.4E-06	0.0E+00	0.0E+00	3.7E-06	3.2E-06	7.0E-07	7.6E-06
405	UCART1	480401.5	3774813.98	480401.5, 3774813.98	5.22456	5.22693	5.11123	0.00212	2.08445	1.97E-05	1.83E-06	1.44E-02	3.78E-07	3.11E-05	1.44E-02	5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.5E-07	8.1E-06
406	UCART1	480451.5	3774813.98	480451.5, 3774813.98	5.40791	5.49106	5.36055	0.00219	2.20166	2.03E-05	1.92E-06	1.51E-02	3.91E-07	3.28E-05	1.52E-02	5.2E-06	1.6E-05	1.3E-05	1.1E-05	4.9E-06	0.0E+00	0.0E+00	4.1E-06	3.6E-06	7.8E-07	8.5E-06
407	UCART1	480501.5	3774813.98	480501.5, 3774813.98	5.51575	5.67613	5.53406	0.00221	2.31557	2.08E-05	1.99E-06	1.56E-02	3.94E-07	3.45E-05	1.56E-02	5.4E-06	1.6E-05	1.3E-05	1.1E-05	5.0E-06	0.0E+00	0.0E+00	4.3E-06	3.7E-06	8.1E-07	8.8E-06
408	UCART1	480551.5	3774813.98	480551.5, 3774813.98	5.53543	5.76038	5.61172	0.00216	2.4245	2.08E-05	2.02E-06	1.58E-02	3.85E-07	3.61E-05	1.59E-02	5.5E-06	1.7E-05	1.3E-05	1.1E-05	5.1E-06	0.0E+00	0.0E+00	4.3E-06	3.7E-06	8.2E-07	8.9E-06
409	UCART1	480601.5	3774813.98	480601.5, 3774813.98	5.46687	5.73644	5.58705	0.00205	2.52429	2.06E-05	2.01E-06	1.57E-02	3.66E-07	3.76E-05	1.58E-02	5.5E-06	1.7E-05	1.3E-05	1.1E-05	5.1E-06	0.0E+00	0.0E+00	4.3E-06	3.7E-06	8.1E-07	8.8E-06
410	UCART1	480651.5	3774813.98	480651.5, 3774813.98	5.31657	5.60888	5.46455	0.00192	2.61177	2.00E-05	1.97E-06	1.54E-02	3.42E-07	3.89E-05	1.55E-02	5.3E-06	1.6E-05	1.3E-05	1.1E-05	5.0E-06	0.0E+00	0.0E+00	4.2E-06	3.6E-06	8.0E-07	8.6E-06
411	UCART1	480701.5	3774813.98	480701.5, 3774813.98	5.09317	5.3902	5.25581	0.00178	2.68431	1.92E-05	1.89E-06	1.48E-02	3.17E-07	4.00E-05	1.49E-02	5.1E-06	1.6E-05	1.2E-05	1.1E-05	4.8E-06	0.0E+00	0.0E+00	4.0E-06	3.5E-06	7.7E-07	8.3E-06
412	UCART1	480751.5	3774813.98	480751.5, 3774813.98	4.82138	5.10799	4.98661	0.00166	2.74028	1.81E-05	1.79E-06	1.40E-02	2.96E-07	4.08E-05	1.41E-02	4.9E-06	1.5E-05	1.2E-05	1.0E-05	4.5E-06	0.0E+00	0.0E+00	3.8E-06	3.3E-06	7.3E-07	7.9E-06
413	UCART1	480801.5	3774813.98	480801.5, 3774813.98	4.51478	4.78298	4.67614	0.00155	2.77873	1.70E-05	1.68E-06	1.32E-02	2.76E-07	4.14E-05	1.32E-02	4.6E-06	1.4E-05	1.1E-05	9.5E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.4E-06
414	UCART1	480851.5	3774813.98	480851.5, 3774813.98	4.17304	4.40445	4.31258	0.00145	2.79932	1.57E-05	1.54E-06	1.21E-02	2.59E-07	4.17E-05	1.22E-02	4.2E-06	1.3E-05	1.0E-05	8.7E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.3E-07	6.8E-06
415	UCART1	480901.5	3774813.98	480901.5, 3774813.98	3.8502	4.06219	3.9839	0.00137	2.80514	1.45E-05	1.42E-06	1.12E-02	2.44E-07	4.18E-05	1.13E-02	3.9E-06	1.2E-05	9.3E-06	8.1E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.8E-07	6.3E-06
416	UCART1	480951.5	3774813.98	480951.5, 3774813.98	3.51622	3.66015	3.58635	0.00128	2.7955	1.32E-05	1.28E-06	1.01E-02	2.28E-07	4.17E-05	1.02E-02	3.5E-06	1.1E-05	8.4E-06	7.3E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.2E-07	5.7E-06
417	UCART1	481001.5	3774813.98	481001.5, 3774813.98	3.19622	3.25611	3.20206	0.0012	2.77309	1.20E-05	1.14E-06	9.02E-03	2.14E-07	4.13E-05	9.07E-03	3.1E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
418	UCART1	481051.5	3774813.98	481051.5, 3774813.98	2.91752	2.97369	2.92789	0.00113	2.71717	1.10E-05	1.04E-06	8.25E-03	2.02E-07	4.05E-05	8.30E-03	2.9E-06	8.7E-06	6.9E-06	5.9E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.6E-06
419	UCART1	481101.5	3774813.98	481101.5, 3774813.98	2.66139	2.71591	2.67689	0.00106	2.67387	1.00E-05	9.52E-07	7.54E-03	1.89E-07	3.99E-05	7.59E-03	2.6E-06	7.9E-06	6.3E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.2E-06
420	UCART1	481151.5	3774813.98	481151.5, 3774813.98	2.42955	2.48649	2.45294	0.00099	2.6166	9.14E-06	8.71E-07	6.91E-03	1.77E-07	3.90E-05	6.96E-03	2.4E-06	7.3E-06	5.7E-06	5.0E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.6E-07	3.9E-06
421	UCART1	481201.5	3774813.98	481201.5, 3774813.98	2.22975	2.2893	2.26004	0.00093	2.5653	8.39E-06	8.02E-07	6.37E-03	1.66E-07	3.82E-05	6.41E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.3E-07	3.6E-06
422	UCART1	481251.5	3774813.98	481251.5, 3774813.98	2.04531	2.10219	2.07631	0.00087	2.49688	7.69E-06	7.37E-07	5.85E-03	1.55E-07	3.72E-05	5.89E-03	2.0E-06	6.2E-06	4.9E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.3E-06
423	UCART1	481301.5	3774813.98	481301.5, 3774813.98	1.89014	1.94515	1.92211	0.00082	2.43196	7.11E-06	6.82E-07	5.41E-03	1.46E-07	3.63E-05	5.46E-03	1.9E-06	5.7E-06	4.5E-06	3.9E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.8E-07	3.1E-06
424	UCART1	481351.5	3774813.98	481351.5, 3774813.98	1.74081	1.77494	1.75441	0.00077	2.35466	6.55E-06	6.22E-07	4.94E-03	1.37E-07	3.51E-05	4.98E-03	1.7E-06	5.2E-06	4.1E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.6E-07	2.8E-06
425	UCART1	481401.5	3774813.98	481401.5, 3774813.98	1.61238	1.62821	1.60984	0.00073	2.27259	6.07E-06	5.71E-07	4.53E-03	1.30E-07	3.39E-05	4.57E-03	1.6E-06	4.8E-06	3.8E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.2E-06	1.1E-06	2.4E-07	2.6E-06
426	UCART1	481451.5	3774813.98	481451.5, 3774813.98	1.49271	1.49744	1.48085	0.00069	2.1778	5.62E-06	5.25E-07	4.17E-03	1.23E-07	3.25E-05	4.21E-03	1.5E-06	4.4E-06	3.5E-06	3.0E-06	1.4E-06	0.0E+00	0.0E+00	1.1E-06	9.9E-07	2.2E-07	2.4E-06
427	UCART1	481501.5	3774813.98	481501.5, 3774813.98	1.39194	1.39891	1.38371	0.00065	2.09535	5.24E-06	4.90E-07	3.90E-03	1.16E-07	3.12E-05	3.93E-03	1.4E-06	4.1E-06	3.2E-06	2.8E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.3E-07	2.0E-07	2.2E-06
428	UCART1	479301.5	3774863.98	479301.5, 3774863.98	0.99881	0.9545	0.95234	0.00026	0.5997	3.76E-06	3.35E-07	2.68E-03	4.64E-08	8.94E-06	2.70E-03	9.3E-07	2.8E-06	2.2E-06	1.9E-06	8.7E-07	0.0E+00	0.0E+00	7.3E-07	6.4E-07	1.4E-07	1.5E-06
429	UCART1	479351.5	3774863.98	479351.5, 3774863.98	1.05882	1.01069	1.00818	0.00027	0.62658	3.98E-06	3.54E-07	2.84E-03	4.82E-08	9.34E-06	2.85E-03	9.9E-07	3.0E-06	2.4E-06	2.0E-06	9.2E-07	0.0E+00	0.0E+00	7.8E-07	6.7E-07	1.5E-07	1.6E-06
430	UCART1	479401.5	3774863.98	479401.5, 3774863.98	1.12356	1.0711	1.06819	0.00029	0.65484	4.23E-06	3.75E-07	3.01E-03	5.17E-08	9.76E-06	3.02E-03	1.0E-06	3.2E-06	2.5E-06	2.2E-06	9.7E-07	0.0E+00	0.0E+00	8.2E-07	7.1E-07	1.6E-07	1.7E-06
431	UCART1	479451.5	3774863.98	479451.5, 3774863.98	1.19522	1.13808	1.13469	0.00032	0.6856	4.50E-06	3.99E-07	3.20E-03	5.71E-08	1.02E-05	3.21E-03	1.1E-06	3.4E-06	2.7E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	8.7E-07	7.6E-07	1.7E-07	1.8E-06
432	UCART1	479501.5	3774863.98	479501.5, 3774863.98	1.27295	1.2105	1.20654	0.00034	0.71807	4.79E-06	4.24E-07	3.40E-03	6.06E-08	1.07E-05	3.41E-03	1.2E-06	3.6E-06	2.8E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	9.3E-07	8.0E-07	1.8E-07	1.9E-06
433	UCART1	479551.5	3774863.98	479551.5, 3774863.98	1.35912	1.29094	1.28629	0.00037	0.75342	5.11E-06	4.52E-07	3.62E-03	6.60E-08	1.12E-05	3.64E-03	1.3E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	9.9E-07	8.6E-07	1.9E-07	2.0E-06
434	UCART1	479601.5	3774863.98	479601.5, 3774863.98	1.45299	1.37832	1.37285	0.0004	0.79083	5.47E-06	4.83E-07	3.87E-03	7.13E-08	1.18E-05	3.88E-03	1.3E-06	4.1E-06	3.2E-06	2.8E-06	1.2E-06	0.0E+00	0.0E+00	1.1E-06	9.2E-07	2.0E-07	2.2E-06
435	UCART1	479651.5	3774863.98	479651.5, 3774863.98	1.55641	1.4746	1.46815	0.00044	0.83107	5.86E-06	5.17E-07	4.13E-03	7.85E-08	1.24E-05	4.15E-03	1.4E-06	4.3E-06	3.4E-06	3.0E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.8E-07	2.1E-07	2.3E-06
436	UCART1	479701.5	3774863.98	479701.5, 3774863.98	1.67146	1.58205	1.57439	0.00048	0.87499	6.29E-06	5.54E-07	4.43E-03	8.56E-08	1.30E-05	4.45E-03	1.5E-06	4.7E-06	3.7E-06	3.2E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.1E-06	2.3E-07	2.5E-06
437	UCART1	479751.5	3774863.98	479751.5, 3774863.98	1.79729	1.6994	1.69028	0.00053	0.92159	6.76E-06	5.96E-07	4.76E-03	9.45E-08	1.37E-05	4.78E-03	1.7E-06	5.0E-06	3.9E-06	3.4E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.5E-07	2.7E-06
438	UCART1	479801.5	3774863.98	479801.5, 3774863.98	1.93734	1.83071	1.81979	0.00058	0.97253	7.29E-06	6.42E-07	5.13E-03	1.03E-07	1.45E-05	5.15E-03	1.8E-06	5.4E-06	4.3E-06	3.7E-06	1.7E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.7E-07	2.9E-06
439	UCART1	479851.5	3774863.98	479851.5, 3774863.98	2.0904	1.97431	1.9612	0.00064	1.02661	7.86E-06	6.92E-07	5.52E-03	1.14E-07	1.53E-05	5.55E-03	1.9E-06	5.8E-06	4.6E-06	4.0E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.9E-07	3.1E-06
440	UCART1	479901.5	3774863.98	479901.5, 3774863.98	2.25922	2.13372	2.11793	0.00071	1.08512	8.50E-06	7.48E-07	5.96E-03	1.27E-07	1.62E-05	5.99E-03	2.1E-06	6.3E-06	4.9E-06	4.3E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.1E-07	3.4E-06
441	UCART1	479951.5	3774863.98	479951.5, 3774863.98	2.44443	2.31009	2.29101	0.00079	1.14822	9.20E-06	8.10E-07	6.45E-03	1.41E-07	1.71E-05	6.48E-03	2.2E-06	6.8E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
442	UCART1	480001.5	3774863.98	480001.5, 3774863.98	2.64621	2.50433	2.48121	0.00088	1.21605	9.96E-06	8.78E-07	6.99E-03	1.57E-07	1.81E-05	7.02E-03	2.4E-06	7.3E-06	5.8E-06	5.0E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.6E-07	3.9E-06
443	UCART1	480051.5	3774863.98	480051.5, 3774863.98	2.86337	2.71598	2.68795	0.00098	1.28824	1.08E-05	9.52E-07	7.57E-03	1.75E-07	1.92E-05	7.60E-03	2.6E-06	7.9E-06	6.3E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.3E-06
444	UCART1	480101.5	3774863.98	480101.5, 3774863.98	3.09451	2.94505	2.9111	0.00109	1.36496	1.16E-05	1.03E-06	8.20E-03	1.94E-07	2.03E-05	8.23E-03	2.8E-06	8.6E-06	6.8E-06	5.9E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.6E-06
445	UCART1	480151.5	3774863.98	480151.5, 3774863.98	3.33788	3.19265	3.15158	0.00121	1.44716	1.26E-05	1.12E-06	8.88E-03	2.16E-07	2.16E-05	8.91E-03	3.1E-06	9.3E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	5.0E-06
446	UCART1	480201.5	3774863.98	480201.5, 3774863.98	3.58711	3.45363	3.40419	0.00134	1.53374	1.35E-05	1.21E-06	9.59E-03	2.39E-07	2.29E-05	9.63E-03	3.3E-06	1.0E-05	7.9E-06	6.9E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	5.0E-07	5.4E-06
447	UCART1	480251.5	3774863.98	480251.5, 3774863.98	3.83514	3.72313	3.6641	0.00147	1.62453	1.44E-05	1.30E-06	1.03E-02	2.62E-07	2.42E-05	1.04E-02	3.6E-06	1.1E-05	8.6E-06	7.4E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.8E-06
448	UCART1	480301.5	3774863.98	480301.5, 3774863.98	4.07178	3.99068	3.92111	0.00159	1.71791	1.53E-05	1.40E-06	1.10E-02	2.84E-07	2.56E-05	1.11E-02	3.8E-06	1.2E-05	9.2E-06	7.9E-06	3.6E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.7E-07	6.2E-06
449	UCART1	480351.5	3774863.98	480351.5, 3774863.98	4.28573	4.24838	4.16764	0.00169	1.8147	1.61E-05	1.49E-06	1.17E-02	3.01E-07	2.71E-05	1.18E-02	4.1E-06	1.2E-05	9.7E-06	8.4E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.6E-06
450	UCART1	480401.5	3774863.98	480401.5, 3774863.98	4.46469	4.4779	4.38623	0.00178	1.91172	1.68E-05	1.57E-06	1.24E-02	3.17E-07	2.85E-05	1.24E-02	4.3E-06	1.3E-05	1.0E-05	8.9E-06	4.0E-06	0.0E+00	0.0E+00	3.4E-06	2.9E-06	6.4E-07	6.9E-06
451	UCART1	480451.5	3774863.98	480451.5, 3774863.98	4.59596	4.66455	4.56313	0.00183	2.0084	1.73E-05	1.63E-06	1.29E-02	3.26E-07	2.99E-05	1.29E-02	4.5E-06	1.3E-05	1.1E-05	9.2E-06	4.1E-06	0.0E+00	0.0E+00	3.5E-06	3.0E-06	6.7E-07	7.2E-06
452	UCART1	480501.5	3774863.98	480501.5, 3774863.98	4.67155	4.79313	4.68422	0.00184	2.10205	1.76E-05	1.68E-06	1.32E-02	3.28E-07	3.13E-05	1.32E-02	4.6E-06	1.4E-05	1.1E-05	9.5E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.4E-06
453	UCART1	480551.5	3774863.98	480551.5, 3774863.98	4.6845	4.85121	4.73802	0.00181	2.19094	1.76E-05	1.70E-06	1.33E-02	3.23E-07	3.27E-05	1.34E-02	4.6E-06	1.4E-05	1.1E-05	9.6E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.2E-06	6.9E-07	7.5E-06
454	UCART1	480601.5	3774863.98	480601.5, 3774863.98	4.63349	4.83347	4.71973	0.00172	2.27235	1.74E-05	1.69E-06	1.33E-02	3.07E-07	3.39E-05	1.33E-02	4.6E-06	1.4E-05	1.1E-05	9.5E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.9E-07	7.5E-06
455	UCART1	480651.5	3774863.98	480651.5, 3774863.98	4.52466	4.74458	4.63392	0.00161	2.34396	1.70E-05	1.66E-06	1.31E-02	2.87E-07	3.49E-05	1.31E-02	4.5E-06	1.4E-05	1.1E-05	9.4E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.3E-06
456	UCART1	480701.5	3774863.98	480701.5, 3774863.98	4.34309	4.5534	4.44952	0.0015	2.40324	1.63E-05	1.60E-06	1.25E-02	2.68E-07	3.58E-05	1.26E-02	4.4E-06	1.3E-05	1.0E-05	9.0E-06	4.0E-06	0.0E+00	0.0E+00	3.4E-06	3.0E-06	6.5E-07	7.0E-06
457	UCART1	480751.5	3774863.98	480751.5, 3774863.98	4.15551	4.37913	4.2833	0.0014	2.45132	1.56E-05	1.53E-06	1.21E-02	2.50E-07	3.65E-05	1.21E-02	4.2E-06	1.3E-05	1.0E-05	8.7E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.3E-07	6.8E-06
458	UCART1	480801.5	3774863.98	480801.5, 3774863.98	3.93368	4.15322	4.067	0.00131	2.48572	1.48E-05	1.46E-06	1.15E-02	2.34E-07	3.71E-05	1.15E-02	4.0E-06	1.2E-05	9.5E-06	8.2E-06	3.7E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.9E-07	6.4E-06
459	UCART1	480851.5	3774863.98	480851.5, 3774863.98	3.67574	3.86664	3.79085	0.00123	2.50611	1.38E-05	1.36E-06	1.07E-02	2.19E-07	3.74E-05	1.07E-02	3.7E-06	1.1E-05	8.9E-06	7.7E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.5E-07	6.0E-06
460	UCART1	480901.5	3774863.98	480901.5, 3774863.98	3.42314	3.5707	3.50518	0.00116	2.51439	1.29E-05	1.25E-06	9.87E-03	2.07E-07	3.75E-05	9.92E-03	3.4E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.6E-06
461	UCART1	480951.5	3774863.98	480951.5, 3774863.98	3.14995	3.20619	3.15113	0.00109	2.50923	1.19E-05	1.12E-06	8.87E-03	1.94E-07	3.74E-05	8.93E-03	3.1E-06	9.3E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	5.0E-06
462	UCART1	481001.5	3774863.98	481001.5, 3774863.98	2.90032	2.94381	2.89678	0.00102	2.47495	1.09E-05	1.03E-06	8.16E-03	1.82E-07	3.69E-05	8.21E-03	2.8E-06	8.6E-06	6.8E-06	5.9E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.6E-06
463	UCART1	481051.5	3774863.98	481051.5, 3774863.98	2.66063	2.69707	2.65694	0.00096	2.44345	1.00E-05	9.45E-07	7.48E-03	1.71E-07	3.64E-05	7.53E-03	2.6E-06	7.9E-06	6.2E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.2E-06
464	UCART1	481101.5	3774863.98	481101.5, 3774863.98	2.44267	2.4801	2.44562	0.00091	2.40317	9.19E-06	8.69E-07	6.89E-03	1.62E-07	3.58E-05	6.93E-03	2.4E-06	7.2E-06	5.7E-06	5.0E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.6E-07	3.9E-06
465	UCART1	481151.5	3774863.98	481151.5, 3774863.98	2.24495	2.28436	2.25447	0.00086	2.36115	8.45E-06	8.01E-07	6.35E-03	1

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s: Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3]: Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	Residential Dose: 3rd Tri	0<2	2<9	9<16	16<30	Risk by Age Group: 3rd Tri	0<2	2<9	9<16	16<30	Total Risk
498	UCART1	480551.5	3774913.98	480551.5, 3774913.98	4.02459	4.15201	4.06363	0.00153	1.99266	1.51E-05	1.46E-06	1.14E-02	2.73E-07	2.97E-05	1.15E-02	4.0E-06	1.2E-05	9.5E-06	8.2E-06	3.7E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.9E-07	6.4E-06
499	UCART1	480601.5	3774913.98	480601.5, 3774913.98	3.98636	4.13906	4.05024	0.00146	2.06008	1.50E-05	1.45E-06	1.14E-02	2.60E-07	3.07E-05	1.15E-02	4.0E-06	1.2E-05	9.5E-06	8.2E-06	3.7E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.9E-07	6.4E-06
500	UCART1	480651.5	3774913.98	480651.5, 3774913.98	3.90319	4.07377	3.98695	0.00138	2.11956	1.47E-05	1.43E-06	1.12E-02	2.46E-07	3.16E-05	1.13E-02	3.9E-06	1.2E-05	9.3E-06	8.1E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.8E-07	6.3E-06
501	UCART1	480701.5	3774913.98	480701.5, 3774913.98	3.76814	3.93152	3.84912	0.00128	2.16935	1.42E-05	1.38E-06	1.08E-02	2.28E-07	3.23E-05	1.09E-02	3.8E-06	1.1E-05	9.0E-06	7.8E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.6E-07	6.1E-06
502	UCART1	480751.5	3774913.98	480751.5, 3774913.98	3.61992	3.78593	3.70911	0.0012	2.20999	1.36E-05	1.33E-06	1.04E-02	2.14E-07	3.29E-05	1.05E-02	3.6E-06	1.1E-05	8.7E-06	7.5E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.4E-07	5.9E-06
503	UCART1	480801.5	3774913.98	480801.5, 3774913.98	3.44876	3.62016	3.54197	0.00112	2.24022	1.30E-05	1.27E-06	9.98E-03	2.00E-07	3.34E-05	1.00E-02	3.5E-06	1.0E-05	8.3E-06	7.2E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.4E-06	5.2E-07	5.6E-06
504	UCART1	480851.5	3774913.98	480851.5, 3774913.98	3.26148	3.4191	3.35607	0.00106	2.25993	1.23E-05	1.20E-06	9.45E-03	1.89E-07	3.37E-05	9.50E-03	3.3E-06	9.9E-06	7.8E-06	6.8E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
505	UCART1	480901.5	3774913.98	480901.5, 3774913.98	3.05294	3.16587	3.10325	0.00099	2.26855	1.15E-05	1.11E-06	8.74E-03	1.77E-07	3.38E-05	8.79E-03	3.0E-06	9.2E-06	7.3E-06	6.3E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.5E-07	4.9E-06
506	UCART1	480951.5	3774913.98	480951.5, 3774913.98	2.84331	2.8851	2.83774	0.00094	2.26742	1.07E-05	1.01E-06	7.99E-03	1.68E-07	3.38E-05	8.04E-03	2.8E-06	8.4E-06	6.6E-06	5.7E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.1E-07	4.5E-06
507	UCART1	481001.5	3774913.98	481001.5, 3774913.98	2.63859	2.66883	2.62782	0.00089	2.2396	9.93E-06	9.35E-07	7.40E-03	1.59E-07	3.34E-05	7.45E-03	2.6E-06	7.8E-06	6.1E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.8E-06	3.8E-07	4.2E-06
508	UCART1	481051.5	3774913.98	481051.5, 3774913.98	2.43411	2.45753	2.4222	0.00084	2.21229	9.16E-06	8.61E-07	6.82E-03	1.50E-07	3.30E-05	6.86E-03	2.4E-06	7.2E-06	5.7E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.5E-07	3.8E-06
509	UCART1	481101.5	3774913.98	481101.5, 3774913.98	2.24024	2.26533	2.23475	0.00079	2.1727	8.43E-06	7.94E-07	6.29E-03	1.41E-07	3.24E-05	6.34E-03	2.2E-06	6.6E-06	5.2E-06	4.5E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.3E-07	3.5E-06
510	UCART1	481151.5	3774913.98	481151.5, 3774913.98	2.08416	2.11138	2.08455	0.00075	2.141	7.84E-06	7.40E-07	5.87E-03	1.34E-07	3.19E-05	5.91E-03	2.0E-06	6.2E-06	4.9E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.3E-06
511	UCART1	481201.5	3774913.98	481201.5, 3774913.98	1.92224	1.94291	1.91925	0.00071	2.0961	7.23E-06	6.81E-07	5.41E-03	1.27E-07	3.12E-05	5.44E-03	1.9E-06	5.7E-06	4.5E-06	3.9E-06	1.7E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.8E-07	3.0E-06
512	UCART1	481251.5	3774913.98	481251.5, 3774913.98	1.78534	1.80192	1.781	0.00067	2.04904	6.72E-06	6.31E-07	5.02E-03	1.20E-07	3.05E-05	5.05E-03	1.7E-06	5.3E-06	4.2E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.6E-07	2.8E-06
513	UCART1	481301.5	3774913.98	481301.5, 3774913.98	1.65657	1.65657	1.63816	0.00064	1.99606	6.23E-06	5.81E-07	4.61E-03	1.14E-07	2.98E-05	4.65E-03	1.6E-06	4.9E-06	3.8E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.4E-07	2.6E-06
514	UCART1	481351.5	3774913.98	481351.5, 3774913.98	1.53612	1.51337	1.4972	0.00061	1.93368	5.78E-06	5.30E-07	4.22E-03	1.09E-07	2.88E-05	4.25E-03	1.5E-06	4.4E-06	3.5E-06	3.0E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.0E-06	2.2E-07	2.4E-06
515	UCART1	481401.5	3774913.98	481401.5, 3774913.98	1.41895	1.38841	1.37406	0.00058	1.85927	5.34E-06	4.87E-07	3.87E-03	1.03E-07	2.77E-05	3.90E-03	1.4E-06	4.1E-06	3.2E-06	2.8E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.2E-07	2.0E-07	2.2E-06
516	UCART1	481451.5	3774913.98	481451.5, 3774913.98	1.30998	1.27989	1.26702	0.00055	1.77946	4.93E-06	4.49E-07	3.57E-03	9.81E-08	2.65E-05	3.60E-03	1.2E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	9.8E-07	8.5E-07	1.9E-07	2.0E-06
517	UCART1	481501.5	3774913.98	481501.5, 3774913.98	1.21491	1.19153	1.17985	0.00052	1.70233	4.57E-06	4.18E-07	3.32E-03	9.28E-08	2.54E-05	3.35E-03	1.2E-06	3.5E-06	2.8E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	9.1E-07	7.9E-07	1.7E-07	1.9E-06
518	UCART1	479301.5	3774963.98	479301.5, 3774963.98	0.9464	0.90874	0.90624	0.00024	0.57625	3.56E-06	3.18E-07	2.55E-03	4.28E-08	8.59E-06	2.56E-03	8.9E-07	2.7E-06	2.1E-06	1.8E-06	8.2E-07	0.0E+00	0.0E+00	7.0E-07	6.0E-07	1.3E-07	1.4E-06
519	UCART1	479351.5	3774963.98	479351.5, 3774963.98	0.9994	0.95892	0.95606	0.00026	0.60071	3.76E-06	3.36E-07	2.69E-03	4.64E-08	8.95E-06	2.71E-03	9.4E-07	2.8E-06	2.2E-06	1.9E-06	8.7E-07	0.0E+00	0.0E+00	7.4E-07	6.4E-07	1.4E-07	1.5E-06
520	UCART1	479401.5	3774963.98	479401.5, 3774963.98	1.05608	1.01244	1.00916	0.00028	0.62627	3.97E-06	3.55E-07	2.84E-03	4.99E-08	9.34E-06	2.86E-03	9.9E-07	3.0E-06	2.4E-06	2.0E-06	9.2E-07	0.0E+00	0.0E+00	7.8E-07	6.7E-07	1.5E-07	1.6E-06
521	UCART1	479451.5	3774963.98	479451.5, 3774963.98	1.11824	1.07128	1.06752	0.0003	0.65395	4.21E-06	3.75E-07	3.01E-03	5.35E-08	9.75E-06	3.02E-03	1.0E-06	3.2E-06	2.5E-06	2.2E-06	9.7E-07	0.0E+00	0.0E+00	8.2E-07	7.1E-07	1.6E-07	1.7E-06
522	UCART1	479501.5	3774963.98	479501.5, 3774963.98	1.18496	1.13428	1.12995	0.00032	0.68297	4.46E-06	3.98E-07	3.18E-03	5.71E-08	1.02E-05	3.20E-03	1.1E-06	3.3E-06	2.6E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	8.7E-07	7.5E-07	1.6E-07	1.8E-06
523	UCART1	479551.5	3774963.98	479551.5, 3774963.98	1.25812	1.20355	1.19855	0.00034	0.71437	4.73E-06	4.22E-07	3.38E-03	6.06E-08	1.06E-05	3.39E-03	1.2E-06	3.5E-06	2.8E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	9.2E-07	8.0E-07	1.7E-07	1.9E-06
524	UCART1	479601.5	3774963.98	479601.5, 3774963.98	1.33679	1.27791	1.27212	0.00037	0.74733	5.03E-06	4.48E-07	3.58E-03	6.60E-08	1.11E-05	3.60E-03	1.2E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	9.8E-07	8.5E-07	1.9E-07	2.0E-06
525	UCART1	479651.5	3774963.98	479651.5, 3774963.98	1.42228	1.3588	1.35208	0.0004	0.78251	5.35E-06	4.76E-07	3.81E-03	7.13E-08	1.17E-05	3.83E-03	1.3E-06	4.0E-06	3.2E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	1.0E-06	9.0E-07	2.0E-07	2.1E-06
526	UCART1	479701.5	3774963.98	479701.5, 3774963.98	1.51595	1.44785	1.44001	0.00043	0.82058	5.70E-06	5.07E-07	4.06E-03	7.67E-08	1.22E-05	4.07E-03	1.4E-06	4.3E-06	3.4E-06	2.9E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.6E-07	2.1E-07	2.3E-06
527	UCART1	479751.5	3774963.98	479751.5, 3774963.98	1.61699	1.54401	1.53486	0.00047	0.86082	6.08E-06	5.41E-07	4.32E-03	8.38E-08	1.28E-05	4.34E-03	1.5E-06	4.5E-06	3.6E-06	3.1E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.0E-06	2.2E-07	2.4E-06
528	UCART1	479801.5	3774963.98	479801.5, 3774963.98	1.72655	1.64878	1.63807	0.00052	0.90385	6.50E-06	5.78E-07	4.61E-03	9.28E-08	1.35E-05	4.63E-03	1.6E-06	4.8E-06	3.8E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.4E-07	2.6E-06
529	UCART1	479851.5	3774963.98	479851.5, 3774963.98	1.84414	1.7616	1.74906	0.00057	0.94926	6.94E-06	6.17E-07	4.93E-03	1.02E-07	1.42E-05	4.95E-03	1.7E-06	5.2E-06	4.1E-06	3.5E-06	1.6E-06	0.0E+00	0.0E+00	1.3E-06	1.2E-06	2.6E-07	2.8E-06
530	UCART1	479901.5	3774963.98	479901.5, 3774963.98	1.97088	1.88421	1.86948	0.00062	0.99781	7.41E-06	6.60E-07	5.27E-03	1.11E-07	1.49E-05	5.29E-03	1.8E-06	5.5E-06	4.4E-06	3.8E-06	1.7E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.7E-07	3.0E-06
531	UCART1	479951.5	3774963.98	479951.5, 3774963.98	2.10645	2.01667	1.99936	0.00068	1.04951	7.92E-06	7.07E-07	5.63E-03	1.21E-07	1.56E-05	5.66E-03	2.0E-06	5.9E-06	4.7E-06	4.0E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.9E-07	3.2E-06
532	UCART1	480001.5	3774963.98	480001.5, 3774963.98	2.25011	2.15876	2.13842	0.00075	1.10433	8.47E-06	7.57E-07	6.02E-03	1.34E-07	1.65E-05	6.05E-03	2.1E-06	6.3E-06	5.0E-06	4.3E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.1E-07	3.4E-06
533	UCART1	480051.5	3774963.98	480051.5, 3774963.98	2.40018	2.30913	2.28527	0.00082	1.16181	9.03E-06	8.09E-07	6.44E-03	1.46E-07	1.73E-05	6.46E-03	2.2E-06	6.8E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
534	UCART1	480101.5	3774963.98	480101.5, 3774963.98	2.55502	2.46691	2.439	0.00089	1.22199	9.61E-06	8.65E-07	6.87E-03	1.59E-07	1.82E-05	6.90E-03	2.4E-06	7.2E-06	5.7E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.6E-07	3.9E-06
535	UCART1	480151.5	3774963.98	480151.5, 3774963.98	2.7131	2.6322	2.59965	0.00097	1.28567	1.02E-05	9.22E-07	7.32E-03	1.73E-07	1.92E-05	7.35E-03	2.5E-06	7.7E-06	6.1E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
536	UCART1	480201.5	3774963.98	480201.5, 3774963.98	2.8692	2.79891	2.76125	0.00105	1.35095	1.08E-05	9.81E-07	7.78E-03	1.87E-07	2.01E-05	7.81E-03	2.7E-06	8.2E-06	6.4E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.4E-06
537	UCART1	480251.5	3774963.98	480251.5, 3774963.98	3.02038	2.96632	2.92309	0.00113	1.4191	1.14E-05	1.04E-06	8.23E-03	2.02E-07	2.12E-05	8.27E-03	2.9E-06	8.6E-06	6.8E-06	5.9E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	1.9E-06	4.3E-07	4.6E-06
538	UCART1	480301.5	3774963.98	480301.5, 3774963.98	3.16007	3.12588	3.07686	0.0012	1.48777	1.19E-05	1.10E-06	8.67E-03	2.14E-07	2.22E-05	8.70E-03	3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.9E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.5E-07	4.9E-06
539	UCART1	480351.5	3774963.98	480351.5, 3774963.98	3.28297	3.2743	3.21945	0.00126	1.55794	1.24E-05	1.15E-06	9.07E-03	2.25E-07	2.32E-05	9.10E-03	3.2E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
540	UCART1	480401.5	3774963.98	480401.5, 3774963.98	3.38253	3.40199	3.34171	0.0013	1.62774	1.27E-05	1.19E-06	9.41E-03	2.32E-07	2.43E-05	9.45E-03	3.3E-06	9.9E-06	7.8E-06	6.8E-06	3.0E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
541	UCART1	480451.5	3774963.98	480451.5, 3774963.98	3.45522	3.50316	3.43822	0.00133	1.69543	1.30E-05	1.23E-06	9.68E-03	2.37E-07	2.53E-05	9.72E-03	3.4E-06	1.0E-05	8.0E-06	6.9E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	5.0E-07	5.4E-06
542	UCART1	480501.5	3774963.98	480501.5, 3774963.98	3.49457	3.57007	3.50166	0.00133	1.76119	1.31E-05	1.25E-06	9.86E-03	2.37E-07	2.63E-05	9.90E-03	3.4E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.5E-06
543	UCART1	480551.5	3774963.98	480551.5, 3774963.98	3.49945	3.59932	3.52893	0.0013	1.82279	1.32E-05	1.26E-06	9.94E-03	2.32E-07	2.72E-05	9.98E-03	3.5E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.4E-06	5.1E-07	5.6E-06
544	UCART1	480601.5	3774963.98	480601.5, 3774963.98	3.47224	3.5917	3.52089	0.00126	1.87902	1.31E-05	1.26E-06	9.92E-03	2.25E-07	2.80E-05	9.96E-03	3.4E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.6E-06
545	UCART1	480651.5	3774963.98	480651.5, 3774963.98	3.40903	3.54342	3.47391	0.00119	1.92904	1.28E-05	1.24E-06	9.78E-03	2.12E-07	2.88E-05	9.83E-03	3.4E-06	1.0E-05	8.1E-06	7.0E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.5E-06
546	UCART1	480701.5	3774963.98	480701.5, 3774963.98	3.30459	3.43362	3.36712	0.00111	1.97122	1.24E-05	1.20E-06	9.48E-03	1.98E-07	2.94E-05	9.53E-03	3.3E-06	1.0E-05	7.9E-06	6.8E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
547	UCART1	480751.5	3774963.98	480751.5, 3774963.98	3.18227	3.28441	3.2145	0.00104	2.0055	1.20E-05	1.15E-06	9.05E-03	1.86E-07	2.99E-05	9.10E-03	3.1E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
548	UCART1	480801.5	3774963.98	480801.5, 3774963.98	3.05907	3.19238	3.13439	0.00098	2.03267	1.15E-05	1.12E-06	8.83E-03	1.75E-07	3.03E-05	8.87E-03	3.1E-06	9.3E-06	7.3E-06	6.3E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	5.0E-06
549	UCART1	480851.5	3774963.98	480851.5, 3774963.98	2.91249	3.02267	2.97018	0.00092	2.05071	1.10E-05	1.06E-06	8.37E-03	1.64E-07	3.06E-05	8.41E-03	2.9E-06	8.8E-06	6.9E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.7E-06
550	UCART1	480901.5	3774963.98	480901.5, 3774963.98	2.73066	2.75871	2.73795	0.00086	2.05825	1.03E-05	9.67E-07	7.64E-03	1.53E-07	3.07E-05	7.68E-03	2.7E-06	8.1E-06	6.3E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.3E-06
551	UCART1	480951.5	3774963.98	480951.5, 3774963.98	2.55657	2.57281	2.53249	0.00081	2.03911	9.62E-06	9.02E-07	7.13E-03	1.44E-07	3.04E-05	7.17E-03	2.5E-06	7.5E-06	5.9E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.7E-07	4.0E-06
552	UCART1	481001.5	3774963.98	481001.5, 3774963.98	2.3831	2.39495	2.35961	0.00077	2.02122	8.97E-06	8.39E-07	6.65E-03	1.37E-07	3.01E-05	6.69E-03	2.3E-06	7.0E-06	5.5E-06	4.8E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.4E-07	3.7E-06
553	UCART1	481051.5	3774963.98	481051.5, 3774963.98	2.21184	2.22576	2.19483	0.00073	1.99801	8.32E-06	7.80E-07	6.18E-03	1.30E-07	2.98E-05	6.22E-03	2.2E-06	6.5E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.2E-07	3.5E-06
554	UCART1	481101.5	3774963.98	481101.5, 3774963.98	2.06442	2.08012	2.0528	0.0007	1.97387	7.77E-06	7.29E-07	5.78E-03	1.25E-07	2.94E-05	5.82E-03	2.0E-06	6.1E-06	4.8E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.3E-06
555	UCART1	481151.5	3774963.98	481151.5, 3774963.98	1.91632	1.9257	1.90157	0.00066	1.94163	7.21E-06	6.75E-07	5.36E-03	1.18E-07	2.89E-05	5.39E-03	1.9E-06	5.6E-06	4.5E-06	3.9E-06	1.7E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.8E-07	3.0E-06
556	UCART1	481201.5	3774963.98	481201.5, 3774963.98	1.78597	1.79065	1.76931	0.00063	1.9049	6.72E-06	6.28E-07	4.98E-03	1.12E-07	2.84E-05	5.02E-03	1.7E-06	5.2E-06	4.1E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.6E-07	2.8E-06
557	UCART1	481251.5	3774963.98	481251.5, 3774963.98	1.65858	1.64106	1.62245	0.0006	1.85926	6.24E-06	5.75E-07	4.57E-03	1.07E-07	2.77E-05	4.60E-03	1.6E-06	4.8E-06	3.8E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.3E-06	1.1E-06	2.4E-07	2.6E-06
558	UCART1	481301.5	3774963.98	481301.5, 3774963.98	1.54296	1.5068	1.4905	0.00057	1.80741	5.80E-06	5.28E-07	4.20E-03	1.02E-07	2.69E-05	4.23E-03	1.5E-06	4.4E-06	3.5E-06	3.0E-06	1.4E-06	0.0E+00	0.0E+00	1.2E-06	1.0E-06	2.2E-07	2.4E-06
559	UCART1	481351.5	3774963.98	481351.5, 3774963.98	1.4289	1.38659	1.37221	0.00054	1.74888	5.38E-06	4.86E-07	3.86E-03	9.63E-08	2.61E-05	3.90E-03	1.3E-06	4.1E-06	3.2E-06	2.8E-06	1.3E-06	0.0E+00	0.0E+00	1.1E-06	9.2E-07	2.0E-07	2.2E-06
560	UCART1	481401.5	3774963.98	481401.5, 3774963.98	1.32277	1.28107	1.26827	0.00052	1.68309	4.98E-06	4.49E-07	3.57E-03	9.28E-08	2.51E-05	3.60E-03	1.2E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	9.8E-07	8.5E-07	1.9E-07	2.0E-06
561	UCART1	481451.5	3774963.98	481451.5, 3774963.98	1.22382	1.18814	1.17664	0.0005	1.61487	4.66E-06	4.16E-07	3.31E-03	8.92E-08	2.41E-05	3.34E-03	1.2E-06	3.5E-06	2.8E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	9.1E-07	7.9E-07	1.7E-07	1.9E-06
562	UCART1	480801.5	3775013.98	480801.5, 3775013.98	2.72057	2.79611	2.74161	0.00086	1.85397	1.02E-05	9.80E-07	7.72E-03	1.53E-07	2.76E-05	7.76E-03	2.7E-06	8.1E-06	6.4E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.3E-06
563	UCART1	480851.5	3775013.98	480851.5, 3775013.98	2.59354	2.61122	2.56819	0.00081	1.86933	9.76E-06	9.15E-07	7.23E-03	1.44E-07	2.79E-05	7.27E-03	2.5E-06	7.6E-06	6.0E-06	5.2E-06	2.3E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
564	UCART1	480901.5	3775013.98	480901.5, 3775013.98	2.45618	2.46441	2.42563	0.00076	1.87736	9.24E-06	8.64E-07	6.83E-03	1.36E-07	2.80E-05	6.87E-03	2.4E-06	7.2E-06	5.7E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.5E-07	3.8E-06
565	UCART1	480951.5	3775013.98	480951.5, 3775013.98	2.31855	2.32366	2.28889	0.00072	1.85968	8.72E-06	8.14E-07	6.45E-03	1.28E-07	2.77E-05	6.48E-03	2.2E-06	6.8E-06	5.4E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
566	UCART1	481001.5	3775013.98	481001.5, 3775013.98	2.17412	2.17861	2.14775	0.00068	1.84363	8.18E-06	7.63E-07	6.05E-03	1.21E-07	2.75E-05	6.09E

OPERATIONS MITIGATED

Mitigated				
Onsite Running	Onsite Idle	OffRoad Equip	Generator	Offsite
3.76E-06	3.50E-07	0.00E+00	1.78E-04	1.49E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s					Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group					
					Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
1	1	480416	3774200.25	480415.97, 3774200.25	56.52832	23.22872	24.49207	0.00704	17.92949	2.13E-04	8.14E-06	0.00E+00	1.26E-06	2.67E-04	0.0005	1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	1.3E-07	1.2E-07	2.5E-08	2.7E-07
2	1	480386.4	3774201.62	480386.35, 3774201.62	48.03402	19.80678	20.70405	0.00719	10.91153	1.81E-04	6.94E-06	0.00E+00	1.28E-06	1.63E-04	0.0004	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	9.6E-08	8.3E-08	1.8E-08	2.0E-07
3	1	480364.5	3774200.25	480364.52, 3774200.25	37.6782	17.39382	18.07978	0.0065	8.18768	1.42E-04	6.10E-06	0.00E+00	1.16E-06	1.22E-04	0.0003	9.4E-08	2.8E-07	2.2E-07	1.9E-07	8.7E-08	0.0E+00	0.0E+00	7.4E-08	6.4E-08	1.4E-08	1.5E-07
4	1	480441.3	3774196.2	480441.34, 3774196.2	48.22031	25.86024	27.4658	0.00732	22.22874	1.81E-04	9.06E-06	0.00E+00	1.31E-06	3.31E-04	0.0005	1.8E-07	5.5E-07	4.3E-07	3.7E-07	1.7E-07	0.0E+00	0.0E+00	1.4E-07	1.2E-07	2.7E-08	2.9E-07
5	1	480332.7	3774203.34	480332.65, 3774203.34	28.54454	14.80373	15.28182	0.00596	6.19488	1.07E-04	5.19E-06	0.00E+00	1.06E-06	9.23E-05	0.0002	7.1E-08	2.2E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	5.6E-08	4.9E-08	1.1E-08	1.2E-07
6	1	480282	3774208.1	480281.98, 3774208.1	19.21664	11.53538	11.80926	0.00488	4.55832	7.23E-05	4.04E-06	0.00E+00	8.70E-07	6.80E-05	0.0001	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	0.0E+00	0.0E+00	4.0E-08	3.4E-08	7.5E-09	8.1E-08
7	1	480259.4	3774210.95	480259.39, 3774210.95	16.49535	10.40758	10.62434	0.00444	4.09805	6.21E-05	3.65E-06	0.00E+00	7.92E-07	6.11E-05	0.0001	4.4E-08	1.3E-07	1.1E-07	9.1E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.6E-09	7.1E-08
8	1	480179.2	3774215.23	480179.23, 3774215.23	10.24044	7.37369	7.47674	0.00313	3.0274	3.85E-05	2.58E-06	0.00E+00	5.58E-07	4.51E-05	0.0001	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	0.0E+00	0.0E+00	2.4E-08	2.0E-08	4.5E-09	4.9E-08
9	1	479777.1	3774155.68	479777.13, 3774155.68	2.56053	2.2826	2.29487	0.00076	1.26019	9.63E-06	8.00E-07	0.00E+00	1.36E-07	1.88E-05	0.0000	1.0E-08	3.1E-08	2.4E-08	2.1E-08	9.4E-09	0.0E+00	0.0E+00	8.0E-09	6.9E-09	1.5E-09	1.6E-08
10	1	479903.9	3774153.05	479903.88, 3774153.05	3.47343	3.00412	3.02562	0.00107	1.56268	1.31E-05	1.05E-06	0.00E+00	1.91E-07	2.33E-05	0.0000	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	8.9E-09	1.9E-09	2.1E-08
11	1	479888.7	3774072.72	479888.73, 3774072.72	3.11919	2.7343	2.75693	0.00093	1.50131	1.17E-05	9.58E-07	0.00E+00	1.66E-07	2.24E-05	0.0000	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	9.6E-09	8.3E-09	1.8E-09	2.0E-08
12	1	480286.7	3774147.78	480286.74, 3774147.78	14.70791	9.9498	10.21614	0.00402	4.45652	5.53E-05	3.49E-06	0.00E+00	7.17E-07	6.64E-05	0.0001	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	3.0E-08	6.5E-09	7.1E-08
13	1	480415.6	3774088.13	480415.64, 3774088.13	15.05953	12.23923	12.74019	0.00407	6.88269	5.67E-05	4.29E-06	0.00E+00	7.26E-07	1.03E-04	0.0002	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.5E-09	9.2E-08
14	1	480408	3774009.17	480408.03, 3774009.17	9.4208	8.38312	8.66159	0.00305	5.20835	3.54E-05	2.94E-06	0.00E+00	5.44E-07	7.76E-05	0.0001	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	0.0E+00	0.0E+00	3.2E-08	2.7E-08	6.0E-09	6.5E-08
15	1	480445.4	3774004.65	480445.38, 3774004.65	9.452	8.73587	9.03999	0.00322	5.7564	3.56E-05	3.06E-06	0.00E+00	5.74E-07	8.58E-05	0.0001	4.3E-08	1.3E-07	1.0E-07	9.9E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	2.9E-08	6.4E-09	7.0E-08
16	1	480447.3	3774028.67	480447.28, 3774028.67	10.71257	9.77573	10.13937	0.00352	6.23819	4.03E-05	3.43E-06	0.00E+00	6.28E-07	9.30E-05	0.0001	4.8E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.1E-09	7.7E-08
17	1	480276.8	3774266.75	480276.83, 3774266.75	22.46687	12.69726	12.92076	0.00552	4.35798	8.45E-05	4.45E-06	0.00E+00	9.85E-07	6.50E-05	0.0002	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	0.0E+00	0.0E+00	4.2E-08	3.7E-08	8.0E-09	8.7E-08
18	1	480151.3	3774266.75	480151.33, 3774266.75	9.45983	6.95586	7.02179	0.00301	2.74867	3.56E-05	2.44E-06	0.00E+00	5.37E-07	4.10E-05	0.0001	2.8E-08	8.3E-08	6.6E-08	5.7E-08	2.6E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.1E-09	4.5E-08
19	1	480135.3	3774266.75	480135.3, 3774266.75	8.71826	6.52894	6.58707	0.0028	2.6248	3.28E-05	2.29E-06	0.00E+00	4.99E-07	3.91E-05	0.0001	2.6E-08	7.8E-08	6.2E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	2.0E-08	1.8E-08	3.9E-09	4.2E-08
20	UCART1		479301.5	3774413.98	479301.5, 3774413.98	1.14893	1.08249	1.0833	0.0003	0.67843	4.32E-06	3.79E-07	0.00E+00	5.35E-08	1.01E-05	0.0000	5.1E-09	1.6E-08	1.2E-08	1.1E-08	4.8E-09	0.0E+00	0.0E+00	4.1E-09	3.5E-09	7.7E-10	8.3E-09
21	UCART1		479351.5	3774413.98	479351.5, 3774413.98	1.2328	1.15785	1.15873	0.00033	0.7147	4.64E-06	4.06E-07	0.00E+00	5.89E-08	1.07E-05	0.0000	5.5E-09	1.6E-08	1.3E-08	1.1E-08	5.1E-09	0.0E+00	0.0E+00	4.3E-09	3.7E-09	8.1E-10	8.8E-09
22	UCART1		479401.5	3774413.98	479401.5, 3774413.98	1.32585	1.24076	1.2417	0.00036	0.75362	4.99E-06	4.35E-07	0.00E+00	6.42E-08	1.12E-05	0.0000	5.8E-09	1.7E-08	1.4E-08	1.2E-08	5.4E-09	0.0E+00	0.0E+00	4.6E-09	3.9E-09	8.6E-10	9.4E-09
23	UCART1		479451.5	3774413.98	479451.5, 3774413.98	1.43139	1.33428	1.3353	0.00039	0.7965	5.39E-06	4.68E-07	0.00E+00	6.96E-08	1.19E-05	0.0000	6.2E-09	1.9E-08	1.5E-08	1.3E-08	5.7E-09	0.0E+00	0.0E+00	4.8E-09	4.2E-09	9.2E-10	1.0E-08
24	UCART1		479501.5	3774413.98	479501.5, 3774413.98	1.55159	1.44009	1.44119	0.00043	0.84378	5.84E-06	5.05E-07	0.00E+00	7.67E-08	1.26E-05	0.0000	6.6E-09	2.0E-08	1.6E-08	1.4E-08	6.1E-09	0.0E+00	0.0E+00	5.2E-09	4.5E-09	9.8E-10	1.1E-08
25	UCART1		479551.5	3774413.98	479551.5, 3774413.98	1.68806	1.55907	1.56026	0.00048	0.8954	6.35E-06	5.46E-07	0.00E+00	8.56E-08	1.33E-05	0.0000	7.0E-09	2.1E-08	1.7E-08	1.5E-08	6.5E-09	0.0E+00	0.0E+00	5.5E-09	4.8E-09	1.0E-09	1.1E-08
26	UCART1		479601.5	3774413.98	479601.5, 3774413.98	1.84699	1.69677	1.69804	0.00053	0.95349	6.95E-06	5.95E-07	0.00E+00	9.45E-08	1.42E-05	0.0000	7.6E-09	2.3E-08	1.8E-08	1.6E-08	7.0E-09	0.0E+00	0.0E+00	6.0E-09	5.2E-09	1.1E-09	1.2E-08
27	UCART1		479651.5	3774413.98	479651.5, 3774413.98	2.02971	1.85309	1.85446	0.00059	1.01719	7.64E-06	6.49E-07	0.00E+00	1.05E-07	1.52E-05	0.0000	8.2E-09	2.5E-08	1.9E-08	1.7E-08	7.6E-09	0.0E+00	0.0E+00	6.4E-09	5.6E-09	1.2E-09	1.3E-08
28	UCART1		479701.5	3774413.98	479701.5, 3774413.98	2.24574	2.0363	2.03775	0.00067	1.08938	8.45E-06	7.14E-07	0.00E+00	1.20E-07	1.62E-05	0.0000	8.8E-09	2.7E-08	2.1E-08	1.8E-08	8.2E-09	0.0E+00	0.0E+00	7.0E-09	6.0E-09	1.3E-09	1.4E-08
29	UCART1		479751.5	3774413.98	479751.5, 3774413.98	2.49921	2.24791	2.24945	0.00076	1.16946	9.40E-06	7.88E-07	0.00E+00	1.36E-07	1.74E-05	0.0000	9.6E-09	2.9E-08	2.3E-08	2.0E-08	8.9E-09	0.0E+00	0.0E+00	7.6E-09	6.5E-09	1.4E-09	1.6E-08
30	UCART1		479801.5	3774413.98	479801.5, 3774413.98	2.80276	2.4976	2.49918	0.00087	1.26007	1.05E-05	8.75E-07	0.00E+00	1.55E-07	1.88E-05	0.0000	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.8E-09	0.0E+00	0.0E+00	8.3E-09	7.2E-09	1.6E-09	1.7E-08
31	UCART1		479851.5	3774413.98	479851.5, 3774413.98	3.1742	2.79876	2.80034	0.00101	1.3646	1.19E-05	9.81E-07	0.00E+00	1.80E-07	2.03E-05	0.0000	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	9.1E-09	7.9E-09	1.7E-09	1.9E-08
32	UCART1		479901.5	3774413.98	479901.5, 3774413.98	3.62884	3.15913	3.16061	0.00117	1.48326	1.37E-05	1.11E-06	0.00E+00	2.09E-07	2.21E-05	0.0000	1.3E-08	3.9E-08	3.1E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	8.7E-09	1.9E-09	2.1E-08
33	UCART1		479951.5	3774413.98	479951.5, 3774413.98	4.20307	3.60484	3.60602	0.00139	1.62208	1.58E-05	1.26E-06	0.00E+00	2.48E-07	2.42E-05	0.0000	1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.8E-09	2.1E-09	2.3E-08
34	UCART1		480001.5	3774413.98	480001.5, 3774413.98	4.93463	4.15527	4.1558	0.00166	1.78263	1.86E-05	1.46E-06	0.00E+00	2.96E-07	2.66E-05	0.0000	1.6E-08	4.9E-08	3.9E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.4E-09	2.6E-08
35	UCART1		480051.5	3774413.98	480051.5, 3774413.98	5.90057	4.85898	4.85818	0.00201	1.97362	2.22E-05	1.70E-06	0.00E+00	3.59E-07	2.94E-05	0.0001	1.9E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
36	UCART1		480101.5	3774413.98	480101.5, 3774413.98	7.21152	5.77487	5.77143	0.00247	2.20201	2.71E-05	2.02E-06	0.00E+00	4.41E-07	3.28E-05	0.0001	2.2E-08	6.5E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	1.7E-08	1.5E-08	3.2E-09	3.5E-08
37	UCART1		480151.5	3774413.98	480151.5, 3774413.98	9.05951	6.99935	6.9906	0.00309	2.47821	3.41E-05	2.45E-06	0.00E+00	5.51E-07	3.69E-05	0.0001	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	2.0E-08	1.7E-08	3.8E-09	4.1E-08
38	UCART1		480201.5	3774413.98	480201.5, 3774413.98	11.80928	8.71131	8.69135	0.00393	2.82009	4.44E-05	3.05E-06	0.00E+00	7.01E-07	4.20E-05	0.0001	3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	0.0E+00	0.0E+00	2.5E-08	2.1E-08	4.7E-09	5.1E-08
39	UCART1		480251.5	3774413.98	480251.5, 3774413.98	16.13096	11.18508	11.14021	0.00506	3.24233	6.07E-05	3.92E-06	0.00E+00	9.03E-07	4.83E-05	0.0001	3.9E-08	1.2E-07	9.4E-08	8.1E-08	3.7E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.9E-09	6.4E-08
40	UCART1		480301.5	3774413.98	480301.5, 3774413.98	23.52454	15.03173	14.92497	0.00659	3.77412	8.85E-05	5.27E-06	0.00E+00	1.18E-06	5.63E-05	0.0002	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.1E-08	3.6E-08	7.8E-09	8.5E-08
41	UCART1		480351.5	3774413.98	480351.5, 3774413.98	37.25242	21.45522	21.17275	0.00834	4.43007	1.40E-04	7.52E-06	0.00E+00	1.49E-06	6.60E-05	0.0002	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	5.9E-08	5.1E-08	1.1E-08	1.2E-07
42	UCART1		480401.5	3774413.98	480401.5, 3774413.98	62.45562	33.42825	32.53599	0.00944	5.21453	2.35E-04	1.17E-05	0.00E+00	1.68E-06	7.77E-05	0.0003	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	8.9E-08	7.7E-08	1.7E-08	1.8E-07
43	UCART1		480451.5	3774413.98	480451.5, 3774413.98	90.48056	58.46808	54.9669	0.00952	6.11077	3.40E-04	2.05E-05	0.00E+00	1.70E-06	9.11E-05	0.0005	1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.5E-07	0.0E+00	0.0E+00	1.2E-07	1.1E-07	2.3E-08	2.5E-07
44	UCART1		480501.5	3774413.98	480501.5, 3774413.98	100.98735	104.1154	92.05779	0.00981	7.10476	3.80E-04	3.65E-05	0.00E+00	1.75E-06	1.06E-04	0.0005	1.8E-07	5.5E-07	4.3E-07	3.7E-07	1.7E-07	0.0E+00	0.0E+00	1.4E-07	1.2E-07	2.7E-08	2.9E-07
45	UCART1		480551.5	3774413.98	480551.5, 3774413.98	101.92839	138.3021	118.8604	0.0315	8.25795	3.83E-04	4.85E-05	0.00E+00	5.62E-06	1.23E-04	0.0006	1.9E-07	5.9E-07	4.6E-07	4.0E-07	1.8E-07	0.0E+00	0.0E+00	1.5E-07	1.3E-07	2.9E-08	3.1E-07
46	UCART1		480601.5	3774413.98	480601.5, 3774413.98	99.3318	131.5781	112.8565	0.04507	9.73483	3.74E-04	4.61E-05	0.00E+00	8.04E-06	1.45E-04	0.0006	2.0E-07	6.0E-07	4.7E-07	4.1E-07	1.8E-07	0.0E+00	0.0E+00	1.6E-07	1.4E-07	3.0E-08	3.2E-07
47	UCART1		480651.5	3774413.98	480651.5, 3774413.98	92.32009	88.87273	78.7074	0.04255	11.84306	3.47E-04	3.11E-05	0.00E+00	7.59E-06	1.77E-04	0.0006	1.9E-07	5.9E-07	4.6E-07	4.0E-07	1.8E-07	0.0E+00	0.0E+00	1.5E-07	1.3E-07	2.9E-08	3.1E-07
48	UCART1		480701.5	3774413.98	480701.5, 3774413.98	74.34073	50.62808	47.06482	0.03501	15.00341	2.80E-04	1.77E-05	0.00E+00	6.24E-06	2.24E-04	0.0005	1.8E-07	5.5E-07	4.4E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	1.4E-07	1.2E-07	2.7E-08	3.0E-07
49	UCART1		480751.5	3774413.98	480751.5, 3774413.98	42.92155	31.22574	29.82873	0.02516	16.84301	1.61E-04	1.09E-05	0.00E+00	4.49E-06	2.51E-04	0.0004	1.5E-07	4.5E-07	3.5E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.2E-07	1.0E-07	2.2E-08	2.4E-07
50	UCART1		480801.5	3774413.98	480801.5, 3774413.98	24.36667	21.14187	20.47937	0.02068	14.1616	9.17E-05	7.41E-06	0.00E+00	3.69E-06	2.11E-04	0.0003	1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	0.0E+00	0.0E+00	8.6E-08	7.4E-08	1.6E-08	1.8E-07
51	UCART1		480851.5	3774413.98	480851.5, 3774413.98	16.20263	15.35962	14.99699	0.01644	11.73464	6.10E-05	5.38E-06	0.00E+00	2.93E-06	1.75E-04	0.0002	8.5E-08	2.6E-07	2.0E-07	1.7E-07	7.8E-08	0.0E+00	0.0E+00	6.7E-08	5.8E-08	1.3E-08	1.4E-07
52	UCART1		480901.5	3774413.98	480901.5, 3774413.98	11.84951	11.72051	11.50143	0.01309	10.25454	4.46E-05	4.11E-06	0.00E+00	2.33E-06	1.53E-04	0.0002	7.1E-08	2.1E-07	1.7E-07	1.5E-07	6.5E-08	0.0E+00	0.0E+00	5.6E-08	4.8E-08	1.1E-08	1.1E-07
53	UCART1		480951.5	3774413.98	480951.5, 3774413.98	9.18745	9.28284	9.14078	0.01045	9.33874	3.46E-05	3.25E-06	0.00E+00	1.86E-06	1.39E-04	0.0002	6.2E-08	1.9E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	4.9E-08	4.2E-08	9.2E-09	1.0E-07
54	UCART1		481001.5	3774413.98	481001.5, 3774413.98	7.40174	7.56389	7.46662	0.00839	8.73421	2.78E-05	2.65E-06	0.00E+00	1.50E-06	1.30E-04	0.0002	5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	0.0E+00	0.0E+00	4.4E-08	3.8E-08	8.4E-09	9.1E-08
55	UCART1		481051.5	3774413.98	481051.5, 3774413.98	6.17985	6.38944	6.31631	0.00679	8.31094	2.32E-05	2.24E-06	0.00E+00	1.21E-06	1.24E-04	0.0002	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.1E-08	3.6E-08	7.8E-09	8.4E-08
56	UCART1		481101.5	3774413.98	481101.5, 3774413.98	5.25089	5.46875	5.41276	0.00554	7.99425	1.98E-05	1.92E-06	0.00E+00	9.88E-07	1.19E-04	0.0001	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	3.9E-08	3.3E-08	7.3E-09	7.9E-08
57	UCART1		481151.5	3774413.98	481151.5, 3774413.98	4.61471	5.00502	4.99063	0.00456	7.7463	1.74E-05	1.75E-06	0.00E+00	8.13E-07	1.15E-04	0.0001	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.3E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.0E-09	7.6E-08
58	UCART1		481201.5	3774413.98	481201.5, 3774413.98	4.13241	4.73805	4.67999	0.0038	7.53564	1.55E-05	1.66E-06	0.00E+00	6.78E-07	1.12E-04	0.0001	4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	0.0E+00	0.0E+00	3.5E-08	3.1E-08	6.7E-09	7.3E-08
59	UCART1		481251.5	3774413.98	481251.5, 3774413.98	3.74632	4.25839	4.20804	0.0032	7.4095	1.41E-05	1.49E-06	0.00E+00	5.71E-07	1.10E-04	0.0001	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.1E-08	0.0E+00	0.0E+00	3.4E-08	3.0E-08	6.5E-09	7.1E-08
60	UCART1		481301.5	3774413.98	481301.5, 3774413.98	3.42523	3.85303	3.80912	0.00273	7.21855	1.29E-05	1.35E-06	0.00E+00	4.87E-07	1.08E-04	0.0001	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.9E-08	6.3E-09	6.8E-08
61	UCART1		481351.5	3774413.98	481351.5, 3774413.98	3.17015	3.51894	3.4798	0.00235	7.01162	1.19E-05	1.23E-06	0.00E+00	4.19E-07	1.05E-04	0.0001	4.1E-08	1.2E-07	9.8E-08	8.4E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.1E-09	6.6E-08
62	UCART1		481401.5	3774413.98	481401.5, 3774413.98	2.90394	3.20629	3.17237	0.00206	6.76925	1.09E-05	1.12E-06	0.00E+00	3.67E-07	1.01E-04	0.0001	3.9E-08	1.2E-07	9.4E-08	8.1E-08	3.6E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.8E-09	6.3E-08
63	UCART1		481451.5	3774413.98	481451.5, 3774413.98	2.71913	2.95646	2.92542	0.00181	6.48616	1.02E-05	1.04E-06	0.00E+00	3.23E-07	9.67E-05	0.0001	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.6E-09	6.1E-08
64	UCART1		479301.5	3774463.98	479301.5, 3774463.98	1.14221	1.07713	1.07754	0.0003	0.67283	4.30E-06	3.77E-07	0.00E+00	5.35E-08	1.00E-05	0.0000	5.1E-09	1.5E-08	1.2E-08	1.1E-08	4.7E-09	0.0E+00	0.0E+00	4.0E-09	3.5E-09	7.6E-10	8.3E-09
65	UCART1		479351.5	3774463.98	479351.5, 3774463.98	1.22491	1.15162	1.15203	0.00033	0.70838	4.61E-06	4.04E-07	0.00E+00	5.89E-08	1.06E-05	0.0000	5.4E-09	1.6E-08	1.3E-08	1.1E-08	5.0E-09	0.0E+00	0.0E+00	4.3E-09	3.7E-09	8.1E-10	8.7E-09
66	UCART1		479401.5	3774463.98	479401.5, 3774463.98	1.31653	1.2335	1.2339	0.00036	0.74647	4.95E-06	4.32E-07	0.00E+00	6.42E-08	1.11E-05	0.0000	5.7E-09	1.7E-08	1.4E-08	1.2E-08	5.3E-09	0.0E+00	0.0E+00	4.5E-09	3.9E-09	8.6E-10	9.3E-09
67	UCART1		479451.5	3774463.98	479451.5, 3774463.98	1.421	1.32652	1.3269	0.00039	0.78876	5.35E-06	4.65E-07	0.00E+00	6.96E-08	1.18E-05	0.0000	6.1E-09	1.8E-08	1.5E-08	1.3E-08	5.7E-09	0.0E+00	0.0E+00	4.8E-09	4.2E-09	9.1E-10	9.9E-09
68	UCART1		479501.5	3774463.98	479501.5, 3774463.98	1.53825	1.42999	1.43033	0.00043	0.83445	5.79E-06	5.01E-07	0.00E+00	7.67E-08	1.24E-05	0.0000	6.5E-09	2.0E-08	1.6E-08	1.3E-08	6.0E-09	0.0E+00	0.0E+00	5.1E-09	4.4E-09	9.7E-10	1.1E-08
69	UCART1		479551.5	3774463.98	479551.5, 3774463.98	1.67295	1.54818	1.54846	0.00047	0.88524	6.29E-06	5.43E-07	0.00E+00	8.38E-08

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group					
					Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
94	UCART1	480801.5	3774463.98	480801.5, 3774463.98	18.07452	17.41856	16.80094	0.01313	9.71165	6.80E-05	6.10E-06	0.00E+00	2.34E-06	1.45E-04	0.0002	7.7E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	0.0E+00	0.0E+00	6.0E-08	5.2E-08	1.1E-08	1.2E-07
95	UCART1	480851.5	3774463.98	480851.5, 3774463.98	13.27001	13.3074	12.93515	0.01114	8.92072	4.99E-05	4.66E-06	0.00E+00	1.99E-06	1.33E-04	0.0002	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	0.0E+00	0.0E+00	5.2E-08	4.5E-08	9.8E-09	1.1E-07
96	UCART1	480901.5	3774463.98	480901.5, 3774463.98	10.18844	10.48318	10.24472	0.00922	8.21967	3.83E-05	3.67E-06	0.00E+00	1.64E-06	1.23E-04	0.0002	5.8E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.6E-09	9.3E-08
97	UCART1	480951.5	3774463.98	480951.5, 3774463.98	8.13443	8.48678	8.32604	0.00764	7.68599	3.06E-05	2.97E-06	0.00E+00	1.36E-06	1.15E-04	0.0001	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.1E-08	3.5E-08	7.7E-09	8.4E-08
98	UCART1	481001.5	3774463.98	481001.5, 3774463.98	6.6876	7.02445	6.91148	0.00632	7.2854	2.52E-05	2.46E-06	0.00E+00	1.13E-06	1.09E-04	0.0001	4.8E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.1E-09	7.7E-08
99	UCART1	481051.5	3774463.98	481051.5, 3774463.98	5.65597	6.01405	5.92578	0.00524	6.9784	2.13E-05	2.11E-06	0.00E+00	9.35E-07	1.04E-04	0.0001	4.4E-08	1.3E-07	1.1E-07	9.2E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.6E-09	7.2E-08
100	UCART1	481101.5	3774463.98	481101.5, 3774463.98	4.84413	5.1553	5.08876	0.00438	6.7326	1.82E-05	1.81E-06	0.00E+00	7.81E-07	1.00E-04	0.0001	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.9E-08	6.3E-09	6.8E-08
101	UCART1	481151.5	3774463.98	481151.5, 3774463.98	4.26677	4.68407	4.64879	0.0037	6.52748	1.61E-05	1.64E-06	0.00E+00	6.60E-07	9.73E-05	0.0001	4.0E-08	1.2E-07	9.5E-08	8.3E-08	3.7E-08	0.0E+00	0.0E+00	3.2E-08	2.7E-08	6.0E-09	6.5E-08
102	UCART1	481201.5	3774463.98	481201.5, 3774463.98	3.81966	4.38054	4.31446	0.00314	6.34413	1.44E-05	1.54E-06	0.00E+00	5.60E-07	9.46E-05	0.0001	3.8E-08	1.2E-07	9.2E-08	7.9E-08	3.6E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.7E-09	6.2E-08
103	UCART1	481251.5	3774463.98	481251.5, 3774463.98	3.45949	3.94654	3.88931	0.0027	6.20458	1.30E-05	1.38E-06	0.00E+00	4.82E-07	9.25E-05	0.0001	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.5E-09	6.0E-08
104	UCART1	481301.5	3774463.98	481301.5, 3774463.98	3.16424	3.58174	3.5317	0.00234	6.02763	1.19E-05	1.26E-06	0.00E+00	4.17E-07	8.99E-05	0.0001	3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	0.0E+00	0.0E+00	2.8E-08	2.4E-08	5.3E-09	5.8E-08
105	UCART1	481351.5	3774463.98	481351.5, 3774463.98	2.93419	3.28237	3.23735	0.00205	5.83813	1.10E-05	1.15E-06	0.00E+00	3.66E-07	8.70E-05	0.0001	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.3E-08	5.1E-09	5.6E-08
106	UCART1	481401.5	3774463.98	481401.5, 3774463.98	2.69963	3.00342	2.9641	0.00181	5.62364	1.02E-05	1.05E-06	0.00E+00	3.23E-07	8.38E-05	0.0001	3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	0.0E+00	0.0E+00	2.6E-08	2.2E-08	4.9E-09	5.3E-08
107	UCART1	481451.5	3774463.98	481451.5, 3774463.98	2.50815	2.76319	2.72806	0.00162	5.38494	9.44E-06	9.68E-07	0.00E+00	2.89E-07	8.03E-05	0.0001	3.1E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	0.0E+00	0.0E+00	2.5E-08	2.1E-08	4.7E-09	5.1E-08
108	UCART1	481501.5	3774463.98	481501.5, 3774463.98	2.34259	2.54906	2.51746	0.00146	5.10517	8.81E-06	8.93E-07	0.00E+00	2.60E-07	7.61E-05	0.0001	3.0E-08	9.0E-08	7.1E-08	6.1E-08	2.8E-08	0.0E+00	0.0E+00	2.3E-08	2.0E-08	4.4E-09	4.8E-08
109	UCART1	479301.5	3774513.98	479301.5, 3774513.98	1.13304	1.06958	1.0696	0.0003	0.6665	4.26E-06	3.75E-07	0.00E+00	5.35E-08	9.94E-06	0.0000	5.1E-09	1.5E-08	1.2E-08	1.0E-08	4.7E-09	0.0E+00	0.0E+00	4.0E-09	3.4E-09	7.5E-10	8.2E-09
110	UCART1	479351.5	3774513.98	479351.5, 3774513.98	1.2137	1.14239	1.14234	0.00032	0.70098	4.57E-06	4.00E-07	0.00E+00	5.71E-08	1.04E-05	0.0000	5.4E-09	1.6E-08	1.3E-08	1.1E-08	5.0E-09	0.0E+00	0.0E+00	4.2E-09	3.6E-09	8.0E-10	8.7E-09
111	UCART1	479401.5	3774513.98	479401.5, 3774513.98	1.30331	1.22274	1.22261	0.00035	0.7381	4.90E-06	4.29E-07	0.00E+00	6.24E-08	1.10E-05	0.0000	5.7E-09	1.7E-08	1.4E-08	1.2E-08	5.3E-09	0.0E+00	0.0E+00	4.5E-09	3.9E-09	8.5E-10	9.2E-09
112	UCART1	479451.5	3774513.98	479451.5, 3774513.98	1.40532	1.31395	1.3137	0.00038	0.77927	5.29E-06	4.60E-07	0.00E+00	6.78E-08	1.16E-05	0.0000	6.0E-09	1.8E-08	1.4E-08	1.2E-08	5.6E-09	0.0E+00	0.0E+00	4.7E-09	4.1E-09	9.0E-10	9.8E-09
113	UCART1	479501.5	3774513.98	479501.5, 3774513.98	1.51938	1.41507	1.41467	0.00042	0.82358	5.72E-06	4.96E-07	0.00E+00	7.49E-08	1.23E-05	0.0000	6.4E-09	1.9E-08	1.5E-08	1.3E-08	6.0E-09	0.0E+00	0.0E+00	5.1E-09	4.4E-09	9.6E-10	1.0E-08
114	UCART1	479551.5	3774513.98	479551.5, 3774513.98	1.65017	1.53048	1.52988	0.00046	0.87279	6.21E-06	5.36E-07	0.00E+00	8.20E-08	1.30E-05	0.0000	6.9E-09	2.1E-08	1.6E-08	1.4E-08	6.4E-09	0.0E+00	0.0E+00	5.4E-09	4.7E-09	1.0E-09	1.1E-08
115	UCART1	479601.5	3774513.98	479601.5, 3774513.98	1.79922	1.66092	1.66005	0.00051	0.92663	6.77E-06	5.82E-07	0.00E+00	9.10E-08	1.38E-05	0.0000	7.4E-09	2.2E-08	1.8E-08	1.5E-08	6.8E-09	0.0E+00	0.0E+00	5.8E-09	5.0E-09	1.1E-09	1.2E-08
116	UCART1	479651.5	3774513.98	479651.5, 3774513.98	1.97232	1.81153	1.8103	0.00057	0.98682	7.42E-06	6.35E-07	0.00E+00	1.02E-07	1.47E-05	0.0000	7.9E-09	2.4E-08	1.9E-08	1.6E-08	7.3E-09	0.0E+00	0.0E+00	6.2E-09	5.4E-09	1.2E-09	1.3E-08
117	UCART1	479701.5	3774513.98	479701.5, 3774513.98	2.17157	1.98293	1.98121	0.00064	1.0527	8.17E-06	6.95E-07	0.00E+00	1.14E-07	1.57E-05	0.0000	8.5E-09	2.6E-08	2.0E-08	1.8E-08	7.9E-09	0.0E+00	0.0E+00	6.7E-09	5.8E-09	1.3E-09	1.4E-08
118	UCART1	479751.5	3774513.98	479751.5, 3774513.98	2.40494	2.18175	2.17936	0.00073	1.12613	9.05E-06	7.65E-07	0.00E+00	1.30E-07	1.68E-05	0.0000	9.3E-09	2.8E-08	2.2E-08	1.9E-08	8.6E-09	0.0E+00	0.0E+00	7.3E-09	6.3E-09	1.4E-09	1.5E-08
119	UCART1	479801.5	3774513.98	479801.5, 3774513.98	2.68351	2.41733	2.41399	0.00083	1.20959	1.01E-05	8.47E-07	0.00E+00	1.48E-07	1.80E-05	0.0000	1.0E-08	3.0E-08	2.4E-08	2.1E-08	9.4E-09	0.0E+00	0.0E+00	7.9E-09	6.9E-09	1.5E-09	1.6E-08
120	UCART1	479851.5	3774513.98	479851.5, 3774513.98	3.01369	2.69256	2.68789	0.00095	1.30233	1.13E-05	9.44E-07	0.00E+00	1.69E-07	1.94E-05	0.0000	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	8.7E-09	7.5E-09	1.6E-09	1.8E-08
121	UCART1	479901.5	3774513.98	479901.5, 3774513.98	3.41616	3.02488	3.0183	0.0011	1.40874	1.29E-05	1.06E-06	0.00E+00	1.96E-07	2.10E-05	0.0000	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	9.6E-09	8.3E-09	1.8E-09	2.0E-08
122	UCART1	479951.5	3774513.98	479951.5, 3774513.98	3.9055	3.42221	3.41284	0.00129	1.52841	1.47E-05	1.20E-06	0.00E+00	2.30E-07	2.29E-05	0.0000	1.3E-08	4.1E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	1.1E-08	9.2E-09	2.0E-09	2.2E-08
123	UCART1	480001.5	3774513.98	480001.5, 3774513.98	4.51636	3.91209	3.89854	0.00152	1.66671	1.70E-05	1.37E-06	0.00E+00	2.71E-07	2.48E-05	0.0000	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
124	UCART1	480051.5	3774513.98	480051.5, 3774513.98	5.28476	4.51804	4.4981	0.00182	1.8253	1.99E-05	1.58E-06	0.00E+00	3.25E-07	2.72E-05	0.0000	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.3E-08	1.2E-08	2.5E-09	2.7E-08
125	UCART1	480101.5	3774513.98	480101.5, 3774513.98	6.26815	5.28094	5.25094	0.00219	2.00851	2.36E-05	1.85E-06	0.00E+00	3.91E-07	2.99E-05	0.0001	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.9E-09	3.1E-08
126	UCART1	480151.5	3774513.98	480151.5, 3774513.98	7.55539	6.26956	6.22305	0.00268	2.22383	2.84E-05	2.20E-06	0.00E+00	4.78E-07	3.32E-05	0.0001	2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	1.8E-08	1.5E-08	3.3E-09	3.6E-08
127	UCART1	480201.5	3774513.98	480201.5, 3774513.98	9.24873	7.55738	7.48309	0.00329	2.47324	3.48E-05	2.65E-06	0.00E+00	5.87E-07	3.69E-05	0.0001	2.6E-08	7.8E-08	6.2E-08	5.4E-08	2.4E-08	0.0E+00	0.0E+00	2.0E-08	1.8E-08	3.9E-09	4.2E-08
128	UCART1	480251.5	3774513.98	480251.5, 3774513.98	11.49492	9.27764	9.15457	0.00408	2.76391	4.32E-05	3.25E-06	0.00E+00	7.28E-07	4.12E-05	0.0001	3.1E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	2.4E-08	2.1E-08	4.6E-09	4.9E-08
129	UCART1	480301.5	3774513.98	480301.5, 3774513.98	14.44594	11.63793	11.42522	0.00509	3.10427	5.43E-05	4.08E-06	0.00E+00	9.08E-07	4.63E-05	0.0001	3.7E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.4E-09	5.9E-08
130	UCART1	480351.5	3774513.98	480351.5, 3774513.98	18.08432	14.84545	14.46658	0.00617	3.49067	6.80E-05	5.20E-06	0.00E+00	1.10E-06	5.20E-05	0.0001	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.1E-08	0.0E+00	0.0E+00	3.4E-08	3.0E-08	6.5E-09	7.1E-08
131	UCART1	480401.5	3774513.98	480401.5, 3774513.98	22.05056	19.18064	18.49539	0.00745	3.93024	8.30E-05	6.72E-06	0.00E+00	1.33E-06	5.86E-05	0.0001	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.1E-08	3.5E-08	7.7E-09	8.4E-08
132	UCART1	480451.5	3774513.98	480451.5, 3774513.98	25.46581	24.45247	23.26998	0.00838	4.41164	9.58E-05	8.57E-06	0.00E+00	1.49E-06	6.58E-05	0.0002	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	0.0E+00	0.0E+00	4.7E-08	4.0E-08	8.9E-09	9.6E-08
133	UCART1	480501.5	3774513.98	480501.5, 3774513.98	27.53552	29.6858	27.88367	0.00872	4.94162	1.04E-04	1.04E-05	0.00E+00	1.56E-06	7.37E-05	0.0002	6.5E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	0.0E+00	0.0E+00	5.2E-08	4.5E-08	9.8E-09	1.1E-07
134	UCART1	480551.5	3774513.98	480551.5, 3774513.98	28.06692	32.71822	30.48317	0.00886	5.50888	1.06E-04	1.14E-05	0.00E+00	1.46E-06	8.21E-05	0.0002	6.6E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	5.5E-08	4.7E-08	1.0E-08	1.1E-07
135	UCART1	480601.5	3774513.98	480601.5, 3774513.98	27.1463	32.04103	29.83124	0.00847	6.11517	1.02E-04	1.12E-05	0.00E+00	1.51E-06	9.12E-05	0.0002	7.1E-08	2.2E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	5.6E-08	4.9E-08	1.1E-08	1.2E-07
136	UCART1	480651.5	3774513.98	480651.5, 3774513.98	24.91574	28.05495	26.2916	0.00858	6.71405	9.37E-05	9.83E-06	0.00E+00	1.53E-06	1.00E-04	0.0002	7.1E-08	2.1E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	5.6E-08	4.8E-08	1.1E-08	1.1E-07
137	UCART1	480701.5	3774513.98	480701.5, 3774513.98	21.50469	22.74691	21.54572	0.00877	7.20581	8.09E-05	7.97E-06	0.00E+00	1.56E-06	1.07E-04	0.0002	6.8E-08	2.1E-07	1.6E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	5.4E-08	4.7E-08	1.0E-08	1.1E-07
138	UCART1	480751.5	3774513.98	480751.5, 3774513.98	17.50544	17.88198	17.11776	0.00849	7.43235	6.59E-05	6.27E-06	0.00E+00	1.51E-06	1.11E-04	0.0002	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	5.0E-08	4.3E-08	9.5E-09	1.0E-07
139	UCART1	480801.5	3774513.98	480801.5, 3774513.98	13.80954	14.08746	13.59961	0.00798	7.34148	5.20E-05	4.94E-06	0.00E+00	1.42E-06	1.09E-04	0.0002	5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	4.6E-08	4.0E-08	8.7E-09	9.4E-08
140	UCART1	480851.5	3774513.98	480851.5, 3774513.98	10.8947	11.26743	10.94623	0.00719	7.0561	4.10E-05	3.95E-06	0.00E+00	1.28E-06	1.05E-04	0.0002	5.2E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.1E-08	3.6E-08	7.8E-09	8.5E-08
141	UCART1	480901.5	3774513.98	480901.5, 3774513.98	8.73521	9.16496	8.94609	0.00626	6.72182	3.29E-05	3.21E-06	0.00E+00	1.12E-06	1.00E-04	0.0001	4.8E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.1E-09	7.7E-08
142	UCART1	480951.5	3774513.98	480951.5, 3774513.98	7.16684	7.59773	7.44313	0.0054	6.41686	2.70E-05	2.66E-06	0.00E+00	9.63E-07	9.57E-05	0.0001	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.1E-08	0.0E+00	0.0E+00	3.4E-08	3.0E-08	6.5E-09	7.1E-08
143	UCART1	481001.5	3774513.98	481001.5, 3774513.98	6.01186	6.44902	6.33061	0.00463	6.15612	2.26E-05	2.26E-06	0.00E+00	8.26E-07	9.18E-05	0.0001	4.1E-08	1.2E-07	9.7E-08	8.4E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.1E-09	6.6E-08
144	UCART1	481051.5	3774513.98	481051.5, 3774513.98	5.12677	5.52092	5.43172	0.00398	5.93792	1.93E-05	1.93E-06	0.00E+00	7.10E-07	8.85E-05	0.0001	3.8E-08	1.2E-07	9.1E-08	7.9E-08	3.5E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.7E-09	6.2E-08
145	UCART1	481101.5	3774513.98	481101.5, 3774513.98	4.45725	4.90603	4.82609	0.00342	5.75006	1.68E-05	1.72E-06	0.00E+00	6.10E-07	8.57E-05	0.0001	3.6E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.4E-09	5.9E-08
146	UCART1	481151.5	3774513.98	481151.5, 3774513.98	3.91789	4.44967	4.37406	0.00297	5.58298	1.47E-05	1.55E-06	0.00E+00	5.30E-07	8.32E-05	0.0001	3.5E-08	1.0E-07	7.9E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.4E-08	5.2E-09	5.6E-08
147	UCART1	481201.5	3774513.98	481201.5, 3774513.98	3.5155	3.99626	3.9299	0.00258	5.42669	1.32E-05	1.40E-06	0.00E+00	4.60E-07	8.09E-05	0.0001	3.3E-08	1.0E-07	7.9E-08	6.9E-08	3.1E-08	0.0E+00	0.0E+00	2.6E-08	2.3E-08	5.0E-09	5.4E-08
148	UCART1	481251.5	3774513.98	481251.5, 3774513.98	3.18612	3.61322	3.55517	0.00226	5.28253	1.20E-05	1.27E-06	0.00E+00	4.03E-07	7.87E-05	0.0001	3.2E-08	9.7E-08	7.6E-08	6.6E-08	3.0E-08	0.0E+00	0.0E+00	2.5E-08	2.2E-08	4.8E-09	5.2E-08
149	UCART1	481301.5	3774513.98	481301.5, 3774513.98	2.91708	3.29242	3.24086	0.002	5.11912	1.10E-05	1.15E-06	0.00E+00	3.57E-07	7.63E-05	0.0001	3.1E-08	9.3E-08	7.3E-08	6.3E-08	2.9E-08	0.0E+00	0.0E+00	2.4E-08	2.1E-08	4.6E-09	5.0E-08
150	UCART1	481351.5	3774513.98	481351.5, 3774513.98	2.67277	3.00937	2.96437	0.00178	4.95703	1.01E-05	1.05E-06	0.00E+00	3.17E-07	7.39E-05	0.0001	3.0E-08	8.9E-08	7.0E-08	6.1E-08	2.7E-08	0.0E+00	0.0E+00	2.3E-08	2.0E-08	4.4E-09	4.8E-08
151	UCART1	481401.5	3774513.98	481401.5, 3774513.98	2.48218	2.7673	2.72632	0.00159	4.76567	9.34E-06	9.70E-07	0.00E+00	2.84E-07	7.10E-05	0.0001	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.2E-09	4.6E-08
152	UCART1	481451.5	3774513.98	481451.5, 3774513.98	2.29096	2.54961	2.51391	0.00144	4.5646	8.62E-06	8.94E-07	0.00E+00	2.57E-07	6.80E-05	0.0001	2.7E-08	8.1E-08	6.4E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	2.1E-08	1.8E-08	4.0E-09	4.4E-08
153	UCART1	481501.5	3774513.98	481501.5, 3774513.98	2.14665	2.35107	2.31847	0.0013	4.33449	8.08E-06	8.24E-07	0.00E+00	2.32E-07	6.46E-05	0.0001	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	2.0E-08	1.7E-08	3.8E-09	4.1E-08
154	UCART1	481551.5	3774513.98	481551.5, 3774513.98	1.99752	2.18393	2.15523	0.00119	4.09618	7.51E-06	7.65E-07	0.00E+00	2.12E-07	6.11E-05	0.0001	2.4E-08	7.3E-08	5.7E-08	5.0E-08	2.2E-08	0.0E+00	0.0E+00	1.9E-08	1.6E-08	3.6E-09	3.9E-08
155	UCART1	479301.5	3774563.98	479301.5, 3774563.98	1.12069	1.05913	1.05876	0.00029	0.65902	4.22E-06	3.71E-07	0.00E+00	5.17E-08	9.82E-06	0.0000	5.0E-09	1.5E-08	1.2E-08	1.0E-08	4.6E-09	0.0E+00	0.0E+00	3.9E-09	3.4E-09	7.5E-10	8.1E-09
156	UCART1	479351.5	3774563.98	479351.5, 3774563.98	1.19925	1.13029	1.12979	0.00032	0.69257	4.51E-06	3.96E-07	0.00E+00	5.71E-08	1.03E-05	0.0000	5.3E-09	1.6E-08	1.3E-08	1.1E-08	4.9E-09	0.0E+00	0.0E+00	4.2E-09	3.6E-09	7.9E-10	8.6E-09
157	UCART1	479401.5	3774563.98	479401.5, 3774563.98	1.28651	1.2089	1.20825	0.00035	0.72872	4.84E-06	4.24E-07	0.00E+00	6.24E-08	1.09E-05	0.0000	5.6E-09	1.7E-08	1.4E-08	1.2E-08	5.2E-09	0.0E+00	0.0E+00	4.4E-09	3.8E-09	8.4E-10	9.1E-09
158	UCART1	479451.5	3774563.98	479451.5, 3774563.98	1.38512	1.29744	1.29659	0.00038	0.76848	5.21E-06	4.55E-07	0.00E+00	6.78E-08	1.15E-05	0.0000	6.0E-09	1.8E-08	1.4E-08	1.2E-08	5.5E-09	0.0E+00	0.0E+00	4.7E-09	4.1E-09	8.9E-10	9.6E-09
159	UCART1	479501.5	3774563.98	479501.5, 3774563.98	1.49524	1.39562	1.39452	0.00041	0.8113	5.63E-06	4.89E-07	0.00E+00	7.31E-08	1.21E-05	0.0000	6.3E-09	1.9E-08	1.5E-08	1.3E-08	5.9E-09	0.0E+00	0.0E+00	5.0E-09	4.3E-09	9.4E-10	1.0E-08
160	UCART1	479551.5	3774563.98	479551.5, 3774563.98	1.62105	1.50735	1.50593	0.00045	0.85872	6.10E-06	5.28E-07	0.00E+00	8.03E-08	1.28E-05	0.0000	6.8E-09	2.0E-08	1.6E-08	1.4E-08	6.3E-09	0.0E+00	0.0E+00	5.3E-09	4.6E-09	1.0E-09	1.1E-08
161	UCART1	479601.5	3774563.98	479601.5, 3774563.98	1.76379	1.63322	1.63137	0.0005	0.91043	6.64E-06	5.72E-07	0.00E+00	8.92E-08	1.36E-05	0.0000	7.2E-09	2.2E-08	1.7E-08	1.5E-08	6.7E-09	0.0E+00	0.0E+00	5.7E-09	4.9E-09	1.1E-09	1.2E-08
162	UCART1	479651.5	3774563.98	479651.5, 3774563.98	1.92874	1.77802	1.77562	0.00056	0.96804	7.26E-06	6.23E-07	0.00E+00	9.99E-08	1.44E-05	0.0000	7.8E-09	2.3E-08	1.9E-08	1.6E-08	7.2E-09	0.0E+00	0.0E+00	6.1E-09	5.3E-09	1.2E-09	1.3E-08
163	UCART1	479

Discrete Receptor ID	X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s					Concentration (AVERAGE CONC) [ug/m^3]						Residential Dose					Risk by Age Group					
				Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
195 UCART1	481301.5	3774563.98	481301.5, 3774563.98	2.67261	2.99051	2.94282	0.00171	4.41277	1.01E-05	1.05E-06	0.00E+00	3.05E-07	6.58E-05	0.0001	2.7E-08	8.1E-08	6.4E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	2.1E-08	1.8E-08	4.0E-09	4.3E-08
196 UCART1	481351.5	3774563.98	481351.5, 3774563.98	2.44835	2.74397	2.70215	0.00154	4.26887	9.21E-06	9.62E-07	0.00E+00	2.75E-07	6.36E-05	0.0001	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	2.0E-08	1.7E-08	3.8E-09	4.1E-08
197 UCART1	481401.5	3774563.98	481401.5, 3774563.98	2.26356	2.52508	2.48714	0.00139	4.10972	8.52E-06	8.85E-07	0.00E+00	2.48E-07	6.13E-05	0.0001	2.5E-08	7.4E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	1.9E-08	1.7E-08	3.7E-09	4.0E-08
198 UCART1	481451.5	3774563.98	481451.5, 3774563.98	2.1053	2.31854	2.28392	0.00127	3.92475	7.92E-06	8.13E-07	0.00E+00	2.27E-07	5.85E-05	0.0001	2.3E-08	7.1E-08	5.6E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	1.8E-08	1.6E-08	3.5E-09	3.8E-08
199 UCART1	481501.5	3774563.98	481501.5, 3774563.98	1.95859	2.15649	2.12577	0.00116	3.74905	7.37E-06	7.56E-07	0.00E+00	2.07E-07	5.59E-05	0.0001	2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	1.7E-08	1.5E-08	3.3E-09	3.6E-08
200 UCART1	481551.5	3774563.98	481551.5, 3774563.98	1.83408	2.00012	1.9723	0.00107	3.54543	6.90E-06	7.01E-07	0.00E+00	1.91E-07	5.29E-05	0.0001	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	1.7E-08	1.4E-08	3.1E-09	3.4E-08
201 UCART1	479301.5	3774613.98	479301.5, 3774613.98	1.10617	1.04687	1.04613	0.00029	0.65102	4.16E-06	3.67E-07	0.00E+00	5.17E-08	9.70E-06	0.0000	4.9E-09	1.5E-08	1.2E-08	1.0E-08	4.6E-09	0.0E+00	0.0E+00	3.9E-09	3.4E-09	7.4E-10	8.0E-09
202 UCART1	479351.5	3774613.98	479351.5, 3774613.98	1.1817	1.11549	1.11457	0.00031	0.68323	4.45E-06	3.91E-07	0.00E+00	5.53E-08	1.02E-05	0.0000	5.2E-09	1.6E-08	1.2E-08	1.1E-08	4.8E-09	0.0E+00	0.0E+00	4.1E-09	3.6E-09	7.8E-10	8.4E-09
203 UCART1	479401.5	3774613.98	479401.5, 3774613.98	1.26647	1.19233	1.19119	0.00034	0.71853	4.76E-06	4.18E-07	0.00E+00	6.06E-08	1.07E-05	0.0000	5.5E-09	1.7E-08	1.3E-08	1.1E-08	5.1E-09	0.0E+00	0.0E+00	4.3E-09	3.8E-09	8.2E-10	8.9E-09
204 UCART1	479451.5	3774613.98	479451.5, 3774613.98	1.36076	1.27736	1.27594	0.00037	0.75657	5.12E-06	4.48E-07	0.00E+00	6.60E-08	1.13E-05	0.0000	5.9E-09	1.8E-08	1.4E-08	1.2E-08	5.4E-09	0.0E+00	0.0E+00	4.6E-09	4.0E-09	8.7E-10	9.5E-09
205 UCART1	479501.5	3774613.98	479501.5, 3774613.98	1.46633	1.37208	1.37033	0.0004	0.79781	5.52E-06	4.81E-07	0.00E+00	7.13E-08	1.19E-05	0.0000	6.2E-09	1.9E-08	1.5E-08	1.3E-08	5.8E-09	0.0E+00	0.0E+00	4.9E-09	4.2E-09	9.3E-10	1.0E-08
206 UCART1	479551.5	3774613.98	479551.5, 3774613.98	1.58662	1.47978	1.47759	0.00044	0.84346	5.97E-06	5.19E-07	0.00E+00	7.85E-08	1.26E-05	0.0000	6.6E-09	2.0E-08	1.6E-08	1.4E-08	6.1E-09	0.0E+00	0.0E+00	5.2E-09	4.5E-09	9.9E-10	1.1E-08
207 UCART1	479601.5	3774613.98	479601.5, 3774613.98	1.72173	1.59986	1.59712	0.00049	0.89271	6.48E-06	5.61E-07	0.00E+00	8.74E-08	1.33E-05	0.0000	7.1E-09	2.1E-08	1.7E-08	1.5E-08	6.6E-09	0.0E+00	0.0E+00	5.6E-09	4.8E-09	1.1E-09	1.1E-08
208 UCART1	479651.5	3774613.98	479651.5, 3774613.98	1.87736	1.73784	1.73439	0.00054	0.9476	7.06E-06	6.09E-07	0.00E+00	9.63E-08	1.41E-05	0.0000	7.6E-09	2.3E-08	1.8E-08	1.6E-08	7.0E-09	0.0E+00	0.0E+00	6.0E-09	5.2E-09	1.1E-09	1.2E-08
209 UCART1	479701.5	3774613.98	479701.5, 3774613.98	2.05415	1.89333	1.88896	0.0006	1.00713	7.73E-06	6.64E-07	0.00E+00	1.07E-07	1.50E-05	0.0000	8.1E-09	2.5E-08	1.9E-08	1.7E-08	7.6E-09	0.0E+00	0.0E+00	6.4E-09	5.5E-09	1.2E-09	1.3E-08
210 UCART1	479751.5	3774613.98	479751.5, 3774613.98	2.25999	2.07386	2.06827	0.00068	1.0738	8.50E-06	7.27E-07	0.00E+00	1.21E-07	1.60E-05	0.0000	8.8E-09	2.7E-08	2.1E-08	1.8E-08	8.1E-09	0.0E+00	0.0E+00	6.9E-09	6.0E-09	1.3E-09	1.4E-08
211 UCART1	479801.5	3774613.98	479801.5, 3774613.98	2.49724	2.28026	2.27308	0.00076	1.14675	9.38E-06	7.99E-07	0.00E+00	1.36E-07	1.71E-05	0.0000	9.5E-09	2.9E-08	2.3E-08	2.0E-08	8.8E-09	0.0E+00	0.0E+00	7.5E-09	6.5E-09	1.4E-09	1.5E-08
212 UCART1	479851.5	3774613.98	479851.5, 3774613.98	2.77613	2.52201	2.51267	0.00087	1.22854	1.04E-05	8.84E-07	0.00E+00	1.55E-07	1.83E-05	0.0000	1.0E-08	3.1E-08	2.5E-08	2.1E-08	9.6E-09	0.0E+00	0.0E+00	8.1E-09	7.0E-09	1.5E-09	1.7E-08
213 UCART1	479901.5	3774613.98	479901.5, 3774613.98	3.10371	2.80423	2.79196	0.00099	1.31935	1.17E-05	9.83E-07	0.00E+00	1.77E-07	1.97E-05	0.0000	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	8.9E-09	7.7E-09	1.7E-09	1.8E-08
214 UCART1	479951.5	3774613.98	479951.5, 3774613.98	3.49124	3.13631	3.12001	0.00114	1.42057	1.31E-05	1.10E-06	0.00E+00	2.03E-07	2.12E-05	0.0000	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	9.7E-09	8.4E-09	1.8E-09	2.0E-08
215 UCART1	480001.5	3774613.98	480001.5, 3774613.98	3.95659	3.53512	3.51314	0.00133	1.53544	1.49E-05	1.24E-06	0.00E+00	2.37E-07	2.29E-05	0.0000	1.4E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.3E-09	2.0E-09	2.2E-08
216 UCART1	480051.5	3774613.98	480051.5, 3774613.98	4.51122	4.00879	3.97882	0.00156	1.66312	1.70E-05	1.40E-06	0.00E+00	2.78E-07	2.48E-05	0.0000	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
217 UCART1	480101.5	3774613.98	480101.5, 3774613.98	5.18208	4.58624	4.54462	0.00184	1.80857	1.95E-05	1.61E-06	0.00E+00	3.28E-07	2.70E-05	0.0000	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.5E-09	2.7E-08
218 UCART1	480151.5	3774613.98	480151.5, 3774613.98	5.9833	5.28122	5.22269	0.00217	1.97044	2.25E-05	1.85E-06	0.00E+00	3.87E-07	2.94E-05	0.0001	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
219 UCART1	480201.5	3774613.98	480201.5, 3774613.98	6.93852	6.1299	6.04631	0.00259	2.1529	2.61E-05	2.15E-06	0.00E+00	4.62E-07	3.21E-05	0.0001	2.1E-08	6.4E-08	5.0E-08	4.3E-08	2.0E-08	0.0E+00	0.0E+00	1.7E-08	1.4E-08	3.1E-09	3.4E-08
220 UCART1	480251.5	3774613.98	480251.5, 3774613.98	8.05377	7.1631	7.04228	0.00307	2.35743	3.03E-05	2.51E-06	0.00E+00	5.48E-07	3.51E-05	0.0001	2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	1.9E-08	1.6E-08	3.5E-09	3.8E-08
221 UCART1	480301.5	3774613.98	480301.5, 3774613.98	9.30453	8.40239	8.2268	0.00363	2.58423	3.50E-05	2.94E-06	0.00E+00	6.47E-07	3.85E-05	0.0001	2.7E-08	8.1E-08	6.4E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	2.1E-08	1.8E-08	4.0E-09	4.3E-08
222 UCART1	480351.5	3774613.98	480351.5, 3774613.98	10.61759	9.84045	9.58713	0.00423	2.83197	3.99E-05	3.45E-06	0.00E+00	7.54E-07	4.22E-05	0.0001	3.0E-08	9.0E-08	7.1E-08	6.2E-08	2.8E-08	0.0E+00	0.0E+00	2.4E-08	2.0E-08	4.5E-09	4.8E-08
223 UCART1	480401.5	3774613.98	480401.5, 3774613.98	11.86264	11.41272	11.05649	0.00479	3.09866	4.46E-05	4.00E-06	0.00E+00	8.54E-07	4.62E-05	0.0001	3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	0.0E+00	0.0E+00	2.6E-08	2.3E-08	4.9E-09	5.4E-08
224 UCART1	480451.5	3774613.98	480451.5, 3774613.98	12.87046	12.97058	12.49325	0.00517	3.38395	4.84E-05	4.55E-06	0.00E+00	9.22E-07	5.04E-05	0.0001	3.6E-08	1.1E-07	8.6E-08	7.5E-08	3.4E-08	0.0E+00	0.0E+00	2.8E-08	2.5E-08	5.4E-09	5.8E-08
225 UCART1	480501.5	3774613.98	480501.5, 3774613.98	13.49764	14.21952	13.62898	0.00531	3.67827	5.08E-05	4.98E-06	0.00E+00	9.47E-07	5.48E-05	0.0001	3.9E-08	1.2E-07	9.2E-08	8.0E-08	3.6E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.8E-09	6.2E-08
226 UCART1	480551.5	3774613.98	480551.5, 3774613.98	13.65531	14.86027	14.19979	0.00514	3.97515	5.14E-05	5.21E-06	0.00E+00	9.17E-07	5.93E-05	0.0001	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.0E-09	6.5E-08
227 UCART1	480601.5	3774613.98	480601.5, 3774613.98	13.33747	14.71579	14.05458	0.00479	4.25869	5.02E-05	5.16E-06	0.00E+00	8.54E-07	6.35E-05	0.0001	4.1E-08	1.3E-07	9.9E-08	8.5E-08	3.8E-08	0.0E+00	0.0E+00	3.3E-08	2.8E-08	6.2E-09	6.7E-08
228 UCART1	480651.5	3774613.98	480651.5, 3774613.98	12.56513	13.81711	13.22311	0.00447	4.51336	4.73E-05	4.84E-06	0.00E+00	7.97E-07	6.73E-05	0.0001	4.2E-08	1.3E-07	9.9E-08	8.6E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.8E-08	6.2E-09	6.7E-08
229 UCART1	480701.5	3774613.98	480701.5, 3774613.98	11.46602	12.45027	11.96065	0.00427	4.70962	4.31E-05	4.36E-06	0.00E+00	7.62E-07	7.02E-05	0.0001	4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.1E-09	6.6E-08
230 UCART1	480751.5	3774613.98	480751.5, 3774613.98	10.15987	10.88682	10.50789	0.00403	4.82948	3.82E-05	3.82E-06	0.00E+00	7.19E-07	7.20E-05	0.0001	4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.9E-09	6.4E-08
231 UCART1	480801.5	3774613.98	480801.5, 3774613.98	8.8363	9.3894	9.10465	0.00379	4.86761	3.32E-05	3.29E-06	0.00E+00	6.76E-07	7.26E-05	0.0001	3.8E-08	1.1E-07	9.1E-08	7.8E-08	3.5E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.7E-09	6.1E-08
232 UCART1	480851.5	3774613.98	480851.5, 3774613.98	7.59293	8.04742	7.83586	0.00353	4.83643	2.86E-05	2.82E-06	0.00E+00	6.30E-07	7.21E-05	0.0001	3.6E-08	1.1E-07	8.6E-08	7.4E-08	3.3E-08	0.0E+00	0.0E+00	2.8E-08	2.5E-08	5.4E-09	5.8E-08
233 UCART1	480901.5	3774613.98	480901.5, 3774613.98	6.51933	6.91901	6.76048	0.00325	4.76109	2.45E-05	2.42E-06	0.00E+00	5.80E-07	7.10E-05	0.0001	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.3E-08	5.1E-09	5.5E-08
234 UCART1	480951.5	3774613.98	480951.5, 3774613.98	5.60467	5.96799	5.84298	0.00296	4.66087	2.11E-05	2.09E-06	0.00E+00	5.28E-07	6.95E-05	0.0001	3.2E-08	9.7E-08	7.7E-08	6.7E-08	3.0E-08	0.0E+00	0.0E+00	2.5E-08	2.2E-08	4.8E-09	5.2E-08
235 UCART1	481001.5	3774613.98	481001.5, 3774613.98	4.86286	5.19581	5.07892	0.00269	4.55294	1.83E-05	1.90E-06	0.00E+00	4.80E-07	6.79E-05	0.0001	3.1E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	2.4E-08	2.1E-08	4.6E-09	4.9E-08
236 UCART1	481051.5	3774613.98	481051.5, 3774613.98	4.24776	4.55555	4.47567	0.00242	4.44194	1.60E-05	1.60E-06	0.00E+00	4.32E-07	6.62E-05	0.0001	2.9E-08	8.8E-08	7.0E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	2.3E-08	2.0E-08	4.3E-09	4.7E-08
237 UCART1	481101.5	3774613.98	481101.5, 3774613.98	3.74737	4.03985	3.96957	0.00219	4.33283	1.41E-05	1.42E-06	0.00E+00	3.91E-07	6.46E-05	0.0001	2.8E-08	8.4E-08	6.6E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.2E-09	4.5E-08
238 UCART1	481151.5	3774613.98	481151.5, 3774613.98	3.33441	3.61789	3.55772	0.00197	4.22412	1.25E-05	1.27E-06	0.00E+00	3.51E-07	6.30E-05	0.0001	2.7E-08	8.1E-08	6.4E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	2.1E-08	1.8E-08	4.0E-09	4.3E-08
239 UCART1	481201.5	3774613.98	481201.5, 3774613.98	2.99226	3.26479	3.21233	0.00178	4.09282	1.13E-05	1.14E-06	0.00E+00	3.17E-07	6.10E-05	0.0001	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	2.0E-08	1.7E-08	3.8E-09	4.1E-08
240 UCART1	481251.5	3774613.98	481251.5, 3774613.98	2.70654	2.96881	2.92259	0.00161	3.97354	1.02E-05	1.04E-06	0.00E+00	2.87E-07	5.92E-05	0.0001	2.4E-08	7.4E-08	5.8E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	1.9E-08	1.7E-08	3.6E-09	4.0E-08
241 UCART1	481301.5	3774613.98	481301.5, 3774613.98	2.46612	2.71676	2.67558	0.00146	3.85505	9.28E-06	9.52E-07	0.00E+00	2.60E-07	5.75E-05	0.0001	2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	1.9E-08	1.6E-08	3.5E-09	3.8E-08
242 UCART1	481351.5	3774613.98	481351.5, 3774613.98	2.26192	2.49558	2.45837	0.00133	3.72154	8.51E-06	8.75E-07	0.00E+00	2.37E-07	5.55E-05	0.0001	2.3E-08	6.8E-08	5.4E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	1.8E-08	1.5E-08	3.4E-09	3.6E-08
243 UCART1	481401.5	3774613.98	481401.5, 3774613.98	2.08694	2.29776	2.26404	0.00122	3.57986	7.85E-06	8.05E-07	0.00E+00	2.18E-07	5.34E-05	0.0001	2.2E-08	6.5E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	1.7E-08	1.5E-08	3.2E-09	3.5E-08
244 UCART1	481451.5	3774613.98	481451.5, 3774613.98	1.93577	2.11724	2.08664	0.00112	3.43435	7.28E-06	7.42E-07	0.00E+00	2.00E-07	5.12E-05	0.0001	2.1E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	1.6E-08	1.4E-08	3.1E-09	3.3E-08
245 UCART1	481501.5	3774613.98	481501.5, 3774613.98	1.80423	1.95596	1.92811	0.00104	3.27248	6.79E-06	6.85E-07	0.00E+00	1.86E-07	4.88E-05	0.0001	2.0E-08	5.9E-08	4.7E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.9E-09	3.2E-08
246 UCART1	481551.5	3774613.98	481551.5, 3774613.98	1.68871	1.82419	1.79887	0.00096	3.10962	6.35E-06	6.39E-07	0.00E+00	1.71E-07	4.64E-05	0.0001	1.9E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
247 UCART1	479301.5	3774663.98	479301.5, 3774663.98	1.08867	1.03193	1.03083	0.00029	0.64196	4.10E-06	3.62E-07	0.00E+00	5.09E-08	9.57E-06	0.0000	4.9E-09	1.5E-08	1.2E-08	1.0E-08	4.5E-09	0.0E+00	0.0E+00	3.8E-09	3.3E-09	7.3E-10	7.9E-09
248 UCART1	479351.5	3774663.98	479351.5, 3774663.98	1.16134	1.09825	1.09694	0.00031	0.67308	4.37E-06	3.85E-07	0.00E+00	5.53E-08	1.00E-05	0.0000	5.1E-09	1.6E-08	1.2E-08	1.1E-08	4.8E-09	0.0E+00	0.0E+00	4.0E-09	3.5E-09	7.7E-10	8.3E-09
249 UCART1	479401.5	3774663.98	479401.5, 3774663.98	1.24277	1.1725	1.17091	0.00033	0.70719	4.68E-06	4.11E-07	0.00E+00	5.89E-08	1.05E-05	0.0000	5.4E-09	1.6E-08	1.3E-08	1.1E-08	5.0E-09	0.0E+00	0.0E+00	4.3E-09	3.7E-09	8.1E-10	8.8E-09
250 UCART1	479451.5	3774663.98	479451.5, 3774663.98	1.33268	1.25405	1.25212	0.00036	0.74367	5.01E-06	4.39E-07	0.00E+00	6.42E-08	1.11E-05	0.0000	5.7E-09	1.7E-08	1.4E-08	1.2E-08	5.3E-09	0.0E+00	0.0E+00	4.5E-09	3.9E-09	8.6E-10	9.3E-09
251 UCART1	479501.5	3774663.98	479501.5, 3774663.98	1.43376	1.34554	1.34319	0.00039	0.78359	5.39E-06	4.72E-07	0.00E+00	6.96E-08	1.17E-05	0.0000	6.1E-09	1.8E-08	1.5E-08	1.3E-08	5.7E-09	0.0E+00	0.0E+00	4.8E-09	4.2E-09	9.1E-10	9.9E-09
252 UCART1	479551.5	3774663.98	479551.5, 3774663.98	1.547	1.44759	1.44472	0.00043	0.82686	5.82E-06	5.07E-07	0.00E+00	7.67E-08	1.23E-05	0.0000	6.5E-09	2.0E-08	1.5E-08	1.3E-08	6.0E-09	0.0E+00	0.0E+00	5.1E-09	4.4E-09	9.7E-10	1.0E-08
253 UCART1	479601.5	3774663.98	479601.5, 3774663.98	1.67469	1.56225	1.55873	0.00047	0.87404	6.30E-06	5.47E-07	0.00E+00	8.38E-08	1.30E-05	0.0000	6.9E-09	2.1E-08	1.6E-08	1.4E-08	6.4E-09	0.0E+00	0.0E+00	5.4E-09	4.7E-09	1.0E-09	1.1E-08
254 UCART1	479651.5	3774663.98	479651.5, 3774663.98	1.8197	1.69204	1.68768	0.00052	0.92581	6.85E-06	5.93E-07	0.00E+00	9.28E-08	1.38E-05	0.0000	7.4E-09	2.2E-08	1.8E-08	1.5E-08	6.9E-09	0.0E+00	0.0E+00	5.8E-09	5.0E-09	1.1E-09	1.2E-08
255 UCART1	479701.5	3774663.98	479701.5, 3774663.98	1.98379	1.83811	1.83269	0.00058	0.98201	7.46E-06	6.44E-07	0.00E+00	1.03E-07	1.46E-05	0.0000	7.9E-09	2.4E-08	1.9E-08	1.6E-08	7.3E-09	0.0E+00	0.0E+00	6.2E-09	5.4E-09	1.2E-09	1.3E-08
256 UCART1	479751.5	3774663.98	479751.5, 3774663.98	2.1733	2.00667	1.99987	0.00065	1.04469	8.18E-06	7.03E-07	0.00E+00	1.16E-07	1.56E-05	0.0000	8.5E-09	2.6E-08	2.0E-08	1.8E-08	7.9E-09	0.0E+00	0.0E+00	6.7E-09	5.8E-09	1.3E-09	1.4E-08
257 UCART1	479801.5	3774663.98	479801.5, 3774663.98	2.38937	2.19767	2.18909	0.00073	1.11279	8.99E-06	7.70E-07	0.00E+00	1.30E-07	1.66E-05	0.0000	9.2E-09	2.8E-08	2.2E-08	1.9E-08	8.5E-09	0.0E+00	0.0E+00	7.2E-09	6.2E-09	1.4E-09	1.5E-08
258 UCART1	479851.5	3774663.98	479851.5, 3774663.98	2.64078	2.41982	2.40898	0.00082	1.18887	9.93E-06	8.48E-07	0.00E+00	1.46E-07	1.77E-05	0.0000	9.9E-09	3.0E-08	2.4E-08	2.1E-08	9.2E-09	0.0E+00	0.0E+00	7.8E-09	6.8E-09	1.5E-09	1.6E-08
259 UCART1	479901.5	3774663.98	479901.5, 3774663.98	2.93097	2.67615	2.66108	0.00093	1.27225	1.10E-05	9.38E-07	0.00E+00	1.66E-07	1.90E-05	0.0000	1.1E-08	3.3E-08	2.6E-08	2.2E-08	1.0E-08	0.0E+00	0.0E+00	8.5E-09	7.3E-09	1.6E-09	1.7E-08
260 UCART1	479951.5	3774663.98	479951.5, 3774663.98	3.26902	2.97224	2.95398	0.00107	1.36463	1.23E-05	1.04E-06	0.00E+00	1.91E-07	2.03E-05	0.0000	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	9.2E-09	8.0E-09	1.7E-09	1.9E-08
261 UCART1	480001.5	3774663.98	480001.5, 3774663.98	3.66682	3.32344	3.29944	0.00123	1.46847	1.38E-05	1.16E-06	0.00E+00	2.19E-07	2.19E-05	0.0000	1.3E-08	3.9E-08	3.1E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	8.7E-09	1.9E-09	2.1E-08
262 UCART1	480051.5	3774663.98	480051.5, 3774663.98	4.13055	3.7342	3.70234	0.00143	1.58311	1.55E-05	1.31E-06	0.00E+00	2.55E-07	2.36E-05	0.0000	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.6E-09	2.1E-09	2.3E-08
263 UCART1	480101.5	3774663.98	480101.5, 3774663.98	4.67263	4.21966	4.17691	0.00166	1.71086	1.76E-05	1.48E-06	0.00E+00	2.96E-07	2.55E-05	0.0000	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.1E-08	2.3E-09	2.5E-08
264 UCART1	480151.5	3774663.98	480151.5, 3774663.98	5.29894	4.78919	4.73134	0.00194	1.85158	1.99E-

Discrete Receptor ID	X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s: Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3]: Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	Residential Dose: 3rd Tri	0<2	2<9	9<16	16<30	Risk by Age Group: 3rd Tri	0<2	2<9	9<16	16<30	Total Risk
296 UCART1	479451.5	3774713.98	479451.5, 3774713.98	1.30142	1.22793	1.22555	0.00035	0.72993	4.90E-06	4.30E-07	0.00E+00	6.24E-08	1.09E-05	0.0000	5.6E-09	1.7E-08	1.3E-08	1.2E-08	5.2E-09	0.0E+00	0.0E+00	4.4E-09	3.8E-09	8.4E-10	9.1E-09
297 UCART1	479501.5	3774713.98	479501.5, 3774713.98	1.39738	1.31552	1.31266	0.00038	0.76832	5.26E-06	4.61E-07	0.00E+00	6.78E-08	1.15E-05	0.0000	6.0E-09	1.8E-08	1.4E-08	1.2E-08	5.5E-09	0.0E+00	0.0E+00	4.7E-09	4.1E-09	8.9E-10	9.7E-09
298 UCART1	479551.5	3774713.98	479551.5, 3774713.98	1.50341	1.4118	1.40835	0.00041	0.80928	5.66E-06	4.95E-07	0.00E+00	7.31E-08	1.21E-05	0.0000	6.3E-09	1.9E-08	1.5E-08	1.3E-08	5.9E-09	0.0E+00	0.0E+00	5.0E-09	4.3E-09	9.4E-10	1.0E-08
299 UCART1	479601.5	3774713.98	479601.5, 3774713.98	1.62351	1.52085	1.51666	0.00045	0.8545	6.11E-06	5.33E-07	0.00E+00	8.03E-08	1.27E-05	0.0000	6.7E-09	2.0E-08	1.6E-08	1.4E-08	6.3E-09	0.0E+00	0.0E+00	5.3E-09	4.6E-09	1.0E-09	1.1E-08
300 UCART1	479651.5	3774713.98	479651.5, 3774713.98	1.75733	1.64173	1.63662	0.0005	0.90297	6.61E-06	5.75E-07	0.00E+00	8.92E-08	1.35E-05	0.0000	7.2E-09	2.2E-08	1.7E-08	1.5E-08	6.7E-09	0.0E+00	0.0E+00	5.6E-09	4.9E-09	1.1E-09	1.2E-08
301 UCART1	479701.5	3774713.98	479701.5, 3774713.98	1.90951	1.77914	1.77287	0.00055	0.95643	7.18E-06	6.23E-07	0.00E+00	9.81E-08	1.43E-05	0.0000	7.7E-09	2.3E-08	1.8E-08	1.6E-08	7.1E-09	0.0E+00	0.0E+00	6.0E-09	5.2E-09	1.1E-09	1.2E-08
302 UCART1	479751.5	3774713.98	479751.5, 3774713.98	2.08138	1.93382	1.92608	0.00062	1.01449	7.83E-06	6.78E-07	0.00E+00	1.11E-07	1.51E-05	0.0000	8.2E-09	2.5E-08	2.0E-08	1.7E-08	7.6E-09	0.0E+00	0.0E+00	6.5E-09	5.6E-09	1.2E-09	1.3E-08
303 UCART1	479801.5	3774713.98	479801.5, 3774713.98	2.27697	2.10958	2.09996	0.00069	1.0781	8.57E-06	7.39E-07	0.00E+00	1.23E-07	1.61E-05	0.0000	8.8E-09	2.7E-08	2.1E-08	1.8E-08	8.2E-09	0.0E+00	0.0E+00	6.9E-09	6.0E-09	1.3E-09	1.4E-08
304 UCART1	479851.5	3774713.98	479851.5, 3774713.98	2.50099	2.311	2.29894	0.00077	1.14828	9.41E-06	8.10E-07	0.00E+00	1.37E-07	1.71E-05	0.0000	9.5E-09	2.9E-08	2.3E-08	2.0E-08	8.8E-09	0.0E+00	0.0E+00	7.5E-09	6.5E-09	1.4E-09	1.5E-08
305 UCART1	479901.5	3774713.98	479901.5, 3774713.98	2.75601	2.53988	2.52466	0.00087	1.22467	1.04E-05	8.90E-07	0.00E+00	1.55E-07	1.83E-05	0.0000	1.0E-08	3.1E-08	2.4E-08	2.1E-08	9.5E-09	0.0E+00	0.0E+00	8.1E-09	7.0E-09	1.5E-09	1.7E-08
306 UCART1	479951.5	3774713.98	479951.5, 3774713.98	3.05049	2.80566	2.78627	0.00099	1.3098	1.15E-05	9.83E-07	0.00E+00	1.77E-07	1.95E-05	0.0000	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	8.8E-09	7.6E-09	1.7E-09	1.8E-08
307 UCART1	480001.5	3774713.98	480001.5, 3774713.98	3.38579	3.10877	3.0839	0.00114	1.40231	1.27E-05	1.09E-06	0.00E+00	2.03E-07	2.09E-05	0.0000	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	9.5E-09	8.2E-09	1.8E-09	2.0E-08
308 UCART1	480051.5	3774713.98	480051.5, 3774713.98	3.7705	3.46022	3.42806	0.0013	1.50473	1.42E-05	1.21E-06	0.00E+00	2.32E-07	2.24E-05	0.0000	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	9.0E-09	2.0E-09	2.1E-08
309 UCART1	480101.5	3774713.98	480101.5, 3774713.98	4.20755	3.86504	3.82315	0.0015	1.61713	1.58E-05	1.35E-06	0.00E+00	2.68E-07	2.41E-05	0.0000	1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.8E-09	2.1E-09	2.3E-08
310 UCART1	480151.5	3774713.98	480151.5, 3774713.98	4.69944	4.33102	4.27615	0.00173	1.7406	1.77E-05	1.52E-06	0.00E+00	3.09E-07	2.59E-05	0.0000	1.6E-08	4.8E-08	3.8E-08	3.2E-08	1.5E-08	0.0E+00	0.0E+00	1.2E-08	1.1E-08	2.3E-09	2.5E-08
311 UCART1	480201.5	3774713.98	480201.5, 3774713.98	5.24124	4.85955	4.78757	0.00198	1.87456	1.97E-05	1.70E-06	0.00E+00	3.53E-07	2.79E-05	0.0000	1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.6E-09	2.8E-08
312 UCART1	480251.5	3774713.98	480251.5, 3774713.98	5.8237	5.45538	5.36098	0.00227	2.02072	2.19E-05	1.91E-06	0.00E+00	4.05E-07	3.01E-05	0.0001	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
313 UCART1	480301.5	3774713.98	480301.5, 3774713.98	6.42155	6.10103	5.97843	0.00257	2.17599	2.42E-05	2.14E-06	0.00E+00	4.58E-07	3.24E-05	0.0001	2.0E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	1.6E-08	1.4E-08	3.1E-09	3.3E-08
314 UCART1	480351.5	3774713.98	480351.5, 3774713.98	7.00094	6.77876	6.62202	0.00286	2.34127	2.63E-05	2.38E-06	0.00E+00	5.10E-07	3.49E-05	0.0001	2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	1.7E-08	1.5E-08	3.3E-09	3.6E-08
315 UCART1	480401.5	3774713.98	480401.5, 3774713.98	7.51329	7.44366	7.24862	0.0031	2.51426	2.83E-05	2.61E-06	0.00E+00	5.53E-07	3.75E-05	0.0001	2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	1.9E-08	1.6E-08	3.6E-09	3.9E-08
316 UCART1	480451.5	3774713.98	480451.5, 3774713.98	7.90867	8.02852	7.79531	0.00326	2.69168	2.98E-05	2.81E-06	0.00E+00	5.81E-07	4.01E-05	0.0001	2.5E-08	7.7E-08	6.0E-08	5.2E-08	2.4E-08	0.0E+00	0.0E+00	2.0E-08	1.7E-08	3.8E-09	4.1E-08
317 UCART1	480501.5	3774713.98	480501.5, 3774713.98	8.14793	8.45826	8.19336	0.00332	2.86843	3.07E-05	2.96E-06	0.00E+00	5.92E-07	4.28E-05	0.0001	2.7E-08	8.0E-08	6.4E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	2.1E-08	1.8E-08	4.0E-09	4.3E-08
318 UCART1	480551.5	3774713.98	480551.5, 3774713.98	8.20316	8.66582	8.38232	0.00323	3.03973	3.09E-05	3.04E-06	0.00E+00	5.76E-07	4.53E-05	0.0001	2.8E-08	8.3E-08	6.6E-08	5.7E-08	2.6E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.1E-09	4.5E-08
319 UCART1	480601.5	3774713.98	480601.5, 3774713.98	8.06413	8.61205	8.32749	0.00304	3.1993	3.03E-05	3.02E-06	0.00E+00	5.42E-07	4.77E-05	0.0001	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.2E-09	4.6E-08
320 UCART1	480651.5	3774713.98	480651.5, 3774713.98	7.75317	8.31719	8.04835	0.00284	3.3381	2.92E-05	2.91E-06	0.00E+00	5.07E-07	4.98E-05	0.0001	2.9E-08	8.6E-08	6.8E-08	5.9E-08	2.6E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.2E-09	4.6E-08
321 UCART1	480701.5	3774713.98	480701.5, 3774713.98	7.29235	7.82067	7.58054	0.00263	3.45	2.74E-05	2.74E-06	0.00E+00	4.69E-07	5.14E-05	0.0001	2.8E-08	8.6E-08	6.8E-08	5.9E-08	2.6E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.2E-09	4.6E-08
322 UCART1	480751.5	3774713.98	480751.5, 3774713.98	6.742	7.2109	7.0053	0.00246	3.52944	2.54E-05	2.53E-06	0.00E+00	4.39E-07	5.26E-05	0.0001	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.2E-09	4.5E-08
323 UCART1	480801.5	3774713.98	480801.5, 3774713.98	6.14071	6.54675	6.37641	0.0023	3.57512	2.31E-05	2.29E-06	0.00E+00	4.10E-07	5.33E-05	0.0001	2.7E-08	8.3E-08	6.5E-08	5.7E-08	2.5E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.1E-09	4.4E-08
324 UCART1	480851.5	3774713.98	480851.5, 3774713.98	5.5351	5.88852	5.75016	0.00215	3.58955	2.08E-05	2.06E-06	0.00E+00	3.83E-07	5.35E-05	0.0001	2.7E-08	8.0E-08	6.3E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	2.1E-08	1.8E-08	4.0E-09	4.3E-08
325 UCART1	480901.5	3774713.98	480901.5, 3774713.98	4.94549	5.23993	5.1285	0.002	3.57717	1.86E-05	1.84E-06	0.00E+00	3.57E-07	5.33E-05	0.0001	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	2.0E-08	1.7E-08	3.8E-09	4.1E-08
326 UCART1	480951.5	3774713.98	480951.5, 3774713.98	4.41637	4.64885	4.55891	0.00187	3.54534	1.66E-05	1.63E-06	0.00E+00	3.34E-07	5.28E-05	0.0001	2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	1.9E-08	1.7E-08	3.7E-09	4.0E-08
327 UCART1	481001.5	3774713.98	481001.5, 3774713.98	3.94114	4.07858	4.00539	0.00173	3.49877	1.48E-05	1.43E-06	0.00E+00	3.09E-07	5.22E-05	0.0001	2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	1.9E-08	1.6E-08	3.5E-09	3.8E-08
328 UCART1	481051.5	3774713.98	481051.5, 3774713.98	3.51778	3.64264	3.58199	0.0016	3.44097	1.32E-05	1.28E-06	0.00E+00	2.85E-07	5.13E-05	0.0001	2.3E-08	6.9E-08	5.5E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	1.8E-08	1.6E-08	3.4E-09	3.7E-08
329 UCART1	481101.5	3774713.98	481101.5, 3774713.98	3.16298	3.28898	3.23781	0.00148	3.35466	1.19E-05	1.15E-06	0.00E+00	2.64E-07	5.00E-05	0.0001	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	1.7E-08	1.5E-08	3.3E-09	3.5E-08
330 UCART1	481151.5	3774713.98	481151.5, 3774713.98	2.84394	2.96648	2.92268	0.00137	3.27486	1.07E-05	1.04E-06	0.00E+00	2.44E-07	4.88E-05	0.0001	2.1E-08	6.4E-08	5.0E-08	4.3E-08	2.0E-08	0.0E+00	0.0E+00	1.7E-08	1.4E-08	3.1E-09	3.4E-08
331 UCART1	481201.5	3774713.98	481201.5, 3774713.98	2.58301	2.71067	2.67261	0.00126	3.19633	9.72E-06	9.50E-07	0.00E+00	2.25E-07	4.76E-05	0.0001	2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	1.6E-08	1.4E-08	3.0E-09	3.3E-08
332 UCART1	481251.5	3774713.98	481251.5, 3774713.98	2.34701	2.47553	2.44194	0.00117	3.11009	8.83E-06	8.68E-07	0.00E+00	2.09E-07	4.64E-05	0.0001	1.9E-08	5.9E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.9E-09	3.1E-08
333 UCART1	481301.5	3774713.98	481301.5, 3774713.98	2.15126	2.28129	2.25133	0.00108	3.02009	8.09E-06	7.99E-07	0.00E+00	1.93E-07	4.50E-05	0.0001	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
334 UCART1	481351.5	3774713.98	481351.5, 3774713.98	1.97371	2.09244	2.06523	0.00101	2.91805	7.43E-06	7.33E-07	0.00E+00	1.80E-07	4.35E-05	0.0001	1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.7E-09	2.9E-08
335 UCART1	481401.5	3774713.98	481401.5, 3774713.98	1.81962	1.91775	1.89306	0.00094	2.81284	6.85E-06	6.72E-07	0.00E+00	1.68E-07	4.19E-05	0.0000	1.7E-08	5.2E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.6E-09	2.8E-08
336 UCART1	481451.5	3774713.98	481451.5, 3774713.98	1.69029	1.7815	1.75902	0.00087	2.70725	6.38E-06	6.24E-07	0.00E+00	1.56E-07	4.04E-05	0.0000	1.6E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.5E-09	2.7E-08
337 UCART1	481501.5	3774713.98	481501.5, 3774713.98	1.57101	1.64072	1.62011	0.00082	2.5807	5.91E-06	5.75E-07	0.00E+00	1.46E-07	3.85E-05	0.0000	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.1E-08	2.3E-09	2.5E-08
338 UCART1	479301.5	3774763.98	479301.5, 3774763.98	1.04707	0.99621	0.99452	0.00027	0.62183	3.94E-06	3.49E-07	0.00E+00	4.82E-08	9.27E-06	0.0000	4.7E-09	1.4E-08	1.1E-08	9.7E-09	4.4E-09	0.0E+00	0.0E+00	3.7E-09	3.2E-09	7.0E-10	7.6E-09
339 UCART1	479351.5	3774763.98	479351.5, 3774763.98	1.1141	1.05823	1.05624	0.00029	0.65115	4.19E-06	3.71E-07	0.00E+00	5.17E-08	9.71E-06	0.0000	5.0E-09	1.5E-08	1.2E-08	1.0E-08	4.6E-09	0.0E+00	0.0E+00	3.9E-09	3.4E-09	7.4E-10	8.0E-09
340 UCART1	479401.5	3774763.98	479401.5, 3774763.98	1.18705	1.12542	1.12308	0.00031	0.68213	4.47E-06	3.94E-07	0.00E+00	5.53E-08	1.02E-05	0.0000	5.2E-09	1.6E-08	1.2E-08	1.1E-08	4.8E-09	0.0E+00	0.0E+00	4.1E-09	3.6E-09	7.8E-10	8.4E-09
341 UCART1	479451.5	3774763.98	479451.5, 3774763.98	1.26791	1.19983	1.19705	0.00034	0.7157	4.77E-06	4.20E-07	0.00E+00	6.06E-08	1.07E-05	0.0000	5.5E-09	1.7E-08	1.3E-08	1.1E-08	5.1E-09	0.0E+00	0.0E+00	4.3E-09	3.8E-09	8.2E-10	8.9E-09
342 UCART1	479501.5	3774763.98	479501.5, 3774763.98	1.35775	1.28239	1.27909	0.00037	0.75207	5.11E-06	4.49E-07	0.00E+00	6.60E-08	1.12E-05	0.0000	5.8E-09	1.8E-08	1.4E-08	1.2E-08	5.4E-09	0.0E+00	0.0E+00	4.6E-09	4.0E-09	8.7E-10	9.4E-09
343 UCART1	479551.5	3774763.98	479551.5, 3774763.98	1.45683	1.37313	1.36919	0.0004	0.79096	5.48E-06	4.81E-07	0.00E+00	7.13E-08	1.18E-05	0.0000	6.2E-09	1.9E-08	1.5E-08	1.3E-08	5.7E-09	0.0E+00	0.0E+00	4.9E-09	4.2E-09	9.2E-10	1.0E-08
344 UCART1	479601.5	3774763.98	479601.5, 3774763.98	1.56837	1.47538	1.47065	0.00044	0.83374	5.90E-06	5.17E-07	0.00E+00	7.85E-08	1.24E-05	0.0000	6.6E-09	2.0E-08	1.6E-08	1.4E-08	6.1E-09	0.0E+00	0.0E+00	5.2E-09	4.5E-09	9.8E-10	1.1E-08
345 UCART1	479651.5	3774763.98	479651.5, 3774763.98	1.69176	1.58802	1.58233	0.00048	0.8794	6.36E-06	5.57E-07	0.00E+00	8.56E-08	1.31E-05	0.0000	7.0E-09	2.1E-08	1.7E-08	1.4E-08	6.5E-09	0.0E+00	0.0E+00	5.5E-09	4.7E-09	1.0E-09	1.1E-08
346 UCART1	479701.5	3774763.98	479701.5, 3774763.98	1.83098	1.71522	1.7083	0.00053	0.92952	6.89E-06	6.01E-07	0.00E+00	9.45E-08	1.39E-05	0.0000	7.4E-09	2.2E-08	1.8E-08	1.5E-08	6.9E-09	0.0E+00	0.0E+00	5.8E-09	5.1E-09	1.1E-09	1.2E-08
347 UCART1	479751.5	3774763.98	479751.5, 3774763.98	1.98676	1.85728	1.84884	0.00059	0.98369	7.47E-06	6.51E-07	0.00E+00	1.05E-07	1.47E-05	0.0000	7.9E-09	2.4E-08	1.9E-08	1.6E-08	7.4E-09	0.0E+00	0.0E+00	6.2E-09	5.4E-09	1.2E-09	1.3E-08
348 UCART1	479801.5	3774763.98	479801.5, 3774763.98	2.16324	2.01856	2.00821	0.00065	1.04328	8.14E-06	7.07E-07	0.00E+00	1.16E-07	1.56E-05	0.0000	8.5E-09	2.6E-08	2.0E-08	1.8E-08	7.9E-09	0.0E+00	0.0E+00	6.7E-09	5.8E-09	1.3E-09	1.4E-08
349 UCART1	479851.5	3774763.98	479851.5, 3774763.98	2.36073	2.19869	2.18594	0.00073	1.10737	8.88E-06	7.71E-07	0.00E+00	1.30E-07	1.65E-05	0.0000	9.1E-09	2.7E-08	2.2E-08	1.9E-08	8.4E-09	0.0E+00	0.0E+00	7.2E-09	6.2E-09	1.4E-09	1.5E-08
350 UCART1	479901.5	3774763.98	479901.5, 3774763.98	2.58358	2.40241	2.38659	0.00082	1.17725	9.72E-06	8.42E-07	0.00E+00	1.46E-07	1.75E-05	0.0000	9.8E-09	3.0E-08	2.3E-08	2.0E-08	9.1E-09	0.0E+00	0.0E+00	7.7E-09	6.7E-09	1.5E-09	1.6E-08
351 UCART1	479951.5	3774763.98	479951.5, 3774763.98	2.83686	2.6358	2.61602	0.00092	1.25454	1.07E-05	9.24E-07	0.00E+00	1.64E-07	1.87E-05	0.0000	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.8E-09	0.0E+00	0.0E+00	8.3E-09	7.2E-09	1.6E-09	1.7E-08
352 UCART1	480001.5	3774763.98	480001.5, 3774763.98	3.11989	2.89766	2.87282	0.00104	1.33774	1.17E-05	1.02E-06	0.00E+00	1.86E-07	1.99E-05	0.0000	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.1E-08	0.0E+00	0.0E+00	9.0E-09	7.8E-09	1.7E-09	1.8E-08
353 UCART1	480051.5	3774763.98	480051.5, 3774763.98	3.43877	3.19712	3.16571	0.00119	1.42952	1.29E-05	1.12E-06	0.00E+00	2.12E-07	2.13E-05	0.0000	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	9.7E-09	8.4E-09	1.8E-09	2.0E-08
354 UCART1	480101.5	3774763.98	480101.5, 3774763.98	3.79061	3.53171	3.49193	0.00135	1.52805	1.43E-05	1.24E-06	0.00E+00	2.41E-07	2.28E-05	0.0000	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	9.1E-09	2.0E-09	2.2E-08
355 UCART1	480151.5	3774763.98	480151.5, 3774763.98	4.17717	3.90895	3.85838	0.00153	1.63563	1.57E-05	1.37E-06	0.00E+00	2.73E-07	2.44E-05	0.0000	1.4E-08	4.4E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.8E-09	2.2E-09	2.3E-08
356 UCART1	480201.5	3774763.98	480201.5, 3774763.98	4.59134	4.32603	4.26184	0.00174	1.75138	1.73E-05	1.52E-06	0.00E+00	3.10E-07	2.61E-05	0.0000	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.5E-08	0.0E+00	0.0E+00	1.2E-08	1.1E-08	2.3E-09	2.5E-08
357 UCART1	480251.5	3774763.98	480251.5, 3774763.98	5.02234	4.77866	4.69759	0.00195	1.87514	1.89E-05	1.67E-06	0.00E+00	3.48E-07	2.80E-05	0.0000	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.3E-08	1.2E-08	2.5E-09	2.7E-08
358 UCART1	480301.5	3774763.98	480301.5, 3774763.98	5.4522	5.25329	5.15207	0.00217	2.00533	2.05E-05	1.84E-06	0.00E+00	3.87E-07	2.99E-05	0.0001	1.8E-08	5.5E-08	4.3E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.7E-09	2.9E-08
359 UCART1	480351.5	3774763.98	480351.5, 3774763.98	5.85671	5.73523	5.61087	0.00237	2.14292	2.20E-05	2.01E-06	0.00E+00	4.23E-07	3.19E-05	0.0001	2.0E-08	5.9E-08	4.7E-08	4.1E-08	1.8E-08	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.9E-09	3.2E-08
360 UCART1	480401.5	3774763.98	480401.5, 3774763.98	6.20772	6.18723	6.03856	0.00255	2.28349	2.34E-05	2.17E-06	0.00E+00	4.55E-07	3.40E-05	0.0001	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	1.6E-08	1.4E-08	3.1E-09	3.4E-08
361 UCART1	480451.5	3774763.98	480451.5, 3774763.98	6.47292	6.57329	6.40129	0.00266	2.42661	2.44E-05	2.30E-06	0.00E+00	4.74E-07	3.62E-05	0.0001	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	1.7E-08	1.5E-08	3.3E-09	3.5E-08
362 UCART1	480501.5	3774763.98	480501.5, 3774763.98	6.63067	6.84929	6.65863	0.00269	2.5674	2.49E-05	2.40E-06	0.00E+00	4.80E-07	3.83E-05	0.0001	2.3E-08	6.9E-08	5.5E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	1.8E-08	1.6E-08	3.4E-09	3.7E-08
363 UCART1	480551.5	3774763.98	480551.5, 3774763.98	6.66097	6.976	6.7747	0.00261	2.70322	2.51E-05	2.44E-06	0.00E+00	4.66E-07	4.03E-05	0.0001	2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	1.9E-08	1.6E-08	3.5E-09	3.8E-08
364 UCART1	480601.5	3774763.98	480601.5, 3774763.98	6.56909	6.9456	6.74317	0.00248	2.82741	2.47E-05	2.43E-06	0.00E+00	4.42E-07	4.21E-05	0.0001	2.4E-08	7.3E-08	5.8E-08	5.0E-08	2.2E-08	0.0E+00	0.0E+00	1.9E-08	1.6E-08	3.6E-09	3.9E-08
365 UCART1	480651.5	3774763.98	480651.5, 3774763.98	6.35254	6.75199	6.55843	0.00231	2.93659	2.39E-05	2.37E-06	0.00E+00	4.12E-07

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s					Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group					
					Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
397	UCART1	480001.5	3774813.98	480001.5, 3774813.98	2.87257	2.6947	2.67053	0.00096	1.27531	1.08E-05	9.44E-07	0.00E+00	1.71E-07	1.90E-05	0.0000	1.1E-08	3.2E-08	2.6E-08	2.2E-08	9.9E-09	0.0E+00	0.0E+00	0.0E+00	8.4E-09	7.3E-09	1.6E-09	1.7E-08
398	UCART1	480051.5	3774813.98	480051.5, 3774813.98	3.13614	2.94761	2.91769	0.00108	1.35707	1.18E-05	1.03E-06	0.00E+00	1.93E-07	2.02E-05	0.0000	1.2E-08	3.5E-08	2.7E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	0.0E+00	9.1E-09	7.8E-09	1.7E-09	1.9E-08
399	UCART1	480101.5	3774813.98	480101.5, 3774813.98	3.42075	3.2245	3.18749	0.00121	1.44395	1.29E-05	1.13E-06	0.00E+00	2.16E-07	2.15E-05	0.0000	1.2E-08	3.7E-08	3.0E-08	2.6E-08	1.1E-08	0.0E+00	0.0E+00	0.0E+00	9.7E-09	8.4E-09	1.8E-09	2.0E-08
400	UCART1	480151.5	3774813.98	480151.5, 3774813.98	3.72639	3.5298	3.48398	0.00136	1.53788	1.40E-05	1.24E-06	0.00E+00	2.43E-07	2.29E-05	0.0000	1.3E-08	4.0E-08	3.2E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-08	9.1E-09	2.0E-09	2.2E-08
401	UCART1	480201.5	3774813.98	480201.5, 3774813.98	4.04601	3.85903	3.80252	0.00152	1.63788	1.52E-05	1.35E-06	0.00E+00	2.71E-07	2.44E-05	0.0000	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08	9.7E-09	2.1E-09	2.3E-08
402	UCART1	480251.5	3774813.98	480251.5, 3774813.98	4.37043	4.20646	4.13725	0.00169	1.74354	1.64E-05	1.47E-06	0.00E+00	3.01E-07	2.60E-05	0.0000	1.5E-08	4.6E-08	3.6E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.3E-09	2.5E-08
403	UCART1	480301.5	3774813.98	480301.5, 3774813.98	4.6863	4.56026	4.47655	0.00185	1.85344	1.76E-05	1.60E-06	0.00E+00	3.30E-07	2.76E-05	0.0000	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.4E-09	2.6E-08
404	UCART1	480351.5	3774813.98	480351.5, 3774813.98	4.97703	4.90918	4.80955	0.00199	1.9684	1.87E-05	1.72E-06	0.00E+00	3.55E-07	2.93E-05	0.0001	1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.6E-09	2.8E-08
405	UCART1	480401.5	3774813.98	480401.5, 3774813.98	5.22456	5.22693	5.11123	0.00212	2.08445	1.97E-05	1.83E-06	0.00E+00	3.78E-07	3.11E-05	0.0001	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.7E-09	3.0E-08
406	UCART1	480451.5	3774813.98	480451.5, 3774813.98	5.40791	5.49106	5.36055	0.00219	2.20166	2.03E-05	1.92E-06	0.00E+00	3.91E-07	3.28E-05	0.0001	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.9E-09	3.1E-08
407	UCART1	480501.5	3774813.98	480501.5, 3774813.98	5.51575	5.67613	5.53406	0.00221	2.31557	2.08E-05	1.99E-06	0.00E+00	3.94E-07	3.45E-05	0.0001	2.0E-08	6.0E-08	4.8E-08	4.1E-08	1.9E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08	1.4E-08	3.0E-09	3.2E-08
408	UCART1	480551.5	3774813.98	480551.5, 3774813.98	5.53543	5.76038	5.61172	0.00216	2.4245	2.08E-05	2.02E-06	0.00E+00	3.85E-07	3.61E-05	0.0001	2.1E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08	1.4E-08	3.1E-09	3.3E-08
409	UCART1	480601.5	3774813.98	480601.5, 3774813.98	5.46687	5.73644	5.58705	0.00205	2.52429	2.06E-05	2.01E-06	0.00E+00	3.66E-07	3.76E-05	0.0001	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08	1.4E-08	3.1E-09	3.4E-08
410	UCART1	480651.5	3774813.98	480651.5, 3774813.98	5.31657	5.60888	5.46455	0.00192	2.61177	2.00E-05	1.97E-06	0.00E+00	3.42E-07	3.89E-05	0.0001	2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08	1.4E-08	3.2E-09	3.4E-08
411	UCART1	480701.5	3774813.98	480701.5, 3774813.98	5.09317	5.3902	5.25581	0.00178	2.68431	1.92E-05	1.89E-06	0.00E+00	3.17E-07	4.00E-05	0.0001	2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08	1.4E-08	3.2E-09	3.4E-08
412	UCART1	480751.5	3774813.98	480751.5, 3774813.98	4.82138	5.10799	4.98661	0.00166	2.74028	1.81E-05	1.79E-06	0.00E+00	2.96E-07	4.08E-05	0.0001	2.1E-08	6.4E-08	5.0E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08	1.4E-08	3.2E-09	3.4E-08
413	UCART1	480801.5	3774813.98	480801.5, 3774813.98	4.51478	4.78298	4.67614	0.00155	2.77873	1.70E-05	1.68E-06	0.00E+00	2.76E-07	4.14E-05	0.0001	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08	1.4E-08	3.1E-09	3.4E-08
414	UCART1	480851.5	3774813.98	480851.5, 3774813.98	4.17304	4.40445	4.31258	0.00145	2.79932	1.57E-05	1.54E-06	0.00E+00	2.59E-07	4.17E-05	0.0001	2.1E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08	1.4E-08	3.1E-09	3.3E-08
415	UCART1	480901.5	3774813.98	480901.5, 3774813.98	3.8502	4.06219	3.9839	0.00137	2.80514	1.45E-05	1.42E-06	0.00E+00	2.44E-07	4.18E-05	0.0001	2.0E-08	6.1E-08	4.8E-08	4.1E-08	1.9E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08	1.4E-08	3.0E-09	3.2E-08
416	UCART1	480951.5	3774813.98	480951.5, 3774813.98	3.51622	3.66015	3.58635	0.00128	2.7955	1.32E-05	1.28E-06	0.00E+00	2.28E-07	4.17E-05	0.0001	2.0E-08	5.9E-08	4.7E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.9E-09	3.2E-08
417	UCART1	481001.5	3774813.98	481001.5, 3774813.98	3.19622	3.25611	3.20206	0.0012	2.77309	1.20E-05	1.14E-06	0.00E+00	2.14E-07	4.13E-05	0.0001	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.1E-08
418	UCART1	481051.5	3774813.98	481051.5, 3774813.98	2.91752	2.97369	2.92789	0.00113	2.71717	1.10E-05	1.04E-06	0.00E+00	2.02E-07	4.05E-05	0.0001	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.7E-09	3.0E-08
419	UCART1	481101.5	3774813.98	481101.5, 3774813.98	2.66139	2.71591	2.67689	0.00106	2.67387	1.00E-05	9.52E-07	0.00E+00	1.89E-07	3.99E-05	0.0001	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.6E-09	2.9E-08
420	UCART1	481151.5	3774813.98	481151.5, 3774813.98	2.42955	2.48649	2.45294	0.00099	2.6166	9.14E-06	8.71E-07	0.00E+00	1.77E-07	3.90E-05	0.0000	1.7E-08	5.1E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08	1.2E-08	2.5E-09	2.8E-08
421	UCART1	481201.5	3774813.98	481201.5, 3774813.98	2.22975	2.2893	2.26004	0.00093	2.5653	8.39E-06	8.02E-07	0.00E+00	1.66E-07	3.82E-05	0.0000	1.6E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.5E-09	2.7E-08
422	UCART1	481251.5	3774813.98	481251.5, 3774813.98	2.04531	2.10219	2.07631	0.00087	2.49688	7.69E-06	7.37E-07	0.00E+00	1.55E-07	3.72E-05	0.0000	1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08	1.1E-08	2.4E-09	2.6E-08
423	UCART1	481301.5	3774813.98	481301.5, 3774813.98	1.89014	1.94515	1.92211	0.00082	2.43196	7.11E-06	6.82E-07	0.00E+00	1.46E-07	3.63E-05	0.0000	1.5E-08	4.6E-08	3.6E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.3E-09	2.5E-08
424	UCART1	481351.5	3774813.98	481351.5, 3774813.98	1.74081	1.77494	1.75441	0.00077	2.35466	6.55E-06	6.22E-07	0.00E+00	1.37E-07	3.51E-05	0.0000	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
425	UCART1	481401.5	3774813.98	481401.5, 3774813.98	1.61238	1.62821	1.60984	0.00073	2.27259	6.07E-06	5.71E-07	0.00E+00	1.30E-07	3.39E-05	0.0000	1.4E-08	4.2E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08	9.6E-09	2.1E-09	2.3E-08
426	UCART1	481451.5	3774813.98	481451.5, 3774813.98	1.49271	1.49744	1.48085	0.00069	2.1778	5.62E-06	5.25E-07	0.00E+00	1.23E-07	3.25E-05	0.0000	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08	9.1E-09	2.0E-09	2.2E-08
427	UCART1	481501.5	3774813.98	481501.5, 3774813.98	1.39194	1.39891	1.38371	0.00065	2.09535	5.24E-06	4.90E-07	0.00E+00	1.16E-07	3.12E-05	0.0000	1.3E-08	3.9E-08	3.1E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-08	8.7E-09	1.9E-09	2.1E-08
428	UCART1	479301.5	3774863.98	479301.5, 3774863.98	0.99881	0.9545	0.95234	0.00026	0.5997	3.76E-06	3.35E-07	0.00E+00	4.64E-08	8.94E-06	0.0000	4.5E-09	1.4E-08	1.1E-08	9.3E-09	4.2E-09	0.0E+00	0.0E+00	0.0E+00	3.6E-09	3.1E-09	6.7E-10	7.3E-09
429	UCART1	479351.5	3774863.98	479351.5, 3774863.98	1.05882	1.01069	1.00818	0.00027	0.62658	3.98E-06	3.54E-07	0.00E+00	4.82E-08	9.34E-06	0.0000	4.8E-09	1.4E-08	1.1E-08	9.8E-09	4.4E-09	0.0E+00	0.0E+00	0.0E+00	3.7E-09	3.2E-09	7.1E-10	7.7E-09
430	UCART1	479401.5	3774863.98	479401.5, 3774863.98	1.12356	1.0711	1.06819	0.00029	0.65484	4.23E-06	3.75E-07	0.00E+00	5.17E-08	9.76E-06	0.0000	5.0E-09	1.5E-08	1.2E-08	1.0E-08	4.6E-09	0.0E+00	0.0E+00	0.0E+00	3.9E-09	3.4E-09	7.4E-10	8.1E-09
431	UCART1	479451.5	3774863.98	479451.5, 3774863.98	1.19522	1.13808	1.13469	0.00032	0.6856	4.50E-06	3.99E-07	0.00E+00	5.71E-08	1.02E-05	0.0000	5.3E-09	1.6E-08	1.3E-08	1.1E-08	4.9E-09	0.0E+00	0.0E+00	0.0E+00	4.1E-09	3.6E-09	7.8E-10	8.5E-09
432	UCART1	479501.5	3774863.98	479501.5, 3774863.98	1.27295	1.2105	1.20654	0.00034	0.71807	4.79E-06	4.24E-07	0.00E+00	6.06E-08	1.07E-05	0.0000	5.5E-09	1.7E-08	1.3E-08	1.1E-08	5.1E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09	3.8E-09	8.2E-10	8.9E-09
433	UCART1	479551.5	3774863.98	479551.5, 3774863.98	1.35912	1.29094	1.28629	0.00037	0.75342	5.11E-06	4.52E-07	0.00E+00	6.60E-08	1.12E-05	0.0000	5.8E-09	1.8E-08	1.4E-08	1.2E-08	5.4E-09	0.0E+00	0.0E+00	0.0E+00	4.6E-09	4.0E-09	8.7E-10	9.4E-09
434	UCART1	479601.5	3774863.98	479601.5, 3774863.98	1.45299	1.37832	1.37285	0.0004	0.79083	5.47E-06	4.83E-07	0.00E+00	7.13E-08	1.18E-05	0.0000	6.2E-09	1.9E-08	1.5E-08	1.3E-08	5.7E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09	4.2E-09	9.2E-10	1.0E-08
435	UCART1	479651.5	3774863.98	479651.5, 3774863.98	1.55641	1.4746	1.46815	0.00044	0.83107	5.86E-06	5.17E-07	0.00E+00	7.85E-08	1.24E-05	0.0000	6.5E-09	2.0E-08	1.6E-08	1.3E-08	6.1E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09	4.4E-09	9.7E-10	1.1E-08
436	UCART1	479701.5	3774863.98	479701.5, 3774863.98	1.67146	1.58205	1.57439	0.00048	0.87499	6.29E-06	5.54E-07	0.00E+00	8.56E-08	1.30E-05	0.0000	6.9E-09	2.1E-08	1.6E-08	1.4E-08	6.4E-09	0.0E+00	0.0E+00	0.0E+00	5.4E-09	4.7E-09	1.0E-09	1.1E-08
437	UCART1	479751.5	3774863.98	479751.5, 3774863.98	1.79729	1.6994	1.69028	0.00053	0.92159	6.76E-06	5.95E-07	0.00E+00	9.45E-08	1.37E-05	0.0000	7.3E-09	2.2E-08	1.7E-08	1.4E-08	6.8E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09	5.0E-09	1.1E-09	1.2E-08
438	UCART1	479801.5	3774863.98	479801.5, 3774863.98	1.93734	1.83071	1.81979	0.00058	0.97253	7.29E-06	6.42E-07	0.00E+00	1.03E-07	1.45E-05	0.0000	7.8E-09	2.4E-08	1.9E-08	1.6E-08	7.2E-09	0.0E+00	0.0E+00	0.0E+00	6.1E-09	5.3E-09	1.2E-09	1.3E-08
439	UCART1	479851.5	3774863.98	479851.5, 3774863.98	2.0904	1.97431	1.9612	0.00064	1.02661	7.86E-06	6.92E-07	0.00E+00	1.14E-07	1.53E-05	0.0000	8.3E-09	2.5E-08	2.0E-08	1.7E-08	7.7E-09	0.0E+00	0.0E+00	0.0E+00	6.5E-09	5.7E-09	1.2E-09	1.3E-08
440	UCART1	479901.5	3774863.98	479901.5, 3774863.98	2.25922	2.13372	2.11793	0.00071	1.08512	8.50E-06	7.48E-07	0.00E+00	1.27E-07	1.62E-05	0.0000	8.8E-09	2.7E-08	2.1E-08	1.8E-08	8.2E-09	0.0E+00	0.0E+00	0.0E+00	7.0E-09	6.0E-09	1.3E-09	1.4E-08
441	UCART1	479951.5	3774863.98	479951.5, 3774863.98	2.44443	2.31009	2.29101	0.00079	1.14822	9.20E-06	8.10E-07	0.00E+00	1.41E-07	1.71E-05	0.0000	9.4E-09	2.8E-08	2.3E-08	1.9E-08	8.8E-09	0.0E+00	0.0E+00	0.0E+00	7.4E-09	6.4E-09	1.4E-09	1.5E-08
442	UCART1	480001.5	3774863.98	480001.5, 3774863.98	2.64621	2.50433	2.48121	0.00088	1.21605	9.96E-06	8.78E-07	0.00E+00	1.57E-07	1.81E-05	0.0000	1.0E-08	3.0E-08	2.4E-08	2.1E-08	9.4E-09	0.0E+00	0.0E+00	0.0E+00	7.9E-09	6.9E-09	1.5E-09	1.6E-08
443	UCART1	480051.5	3774863.98	480051.5, 3774863.98	2.86337	2.71598	2.68795	0.00098	1.28824	1.08E-05	9.52E-07	0.00E+00	1.75E-07	1.92E-05	0.0000	1.1E-08	3.3E-08	2.6E-08	2.2E-08	1.0E-08	0.0E+00	0.0E+00	0.0E+00	8.5E-09	7.3E-09	1.6E-09	1.7E-08
444	UCART1	480101.5	3774863.98	480101.5, 3774863.98	3.09451	2.94505	2.9111	0.00109	1.36496	1.16E-05	1.03E-06	0.00E+00	1.94E-07	2.03E-05	0.0000	1.1E-08	3.5E-08	2.7E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	0.0E+00	9.0E-09	7.8E-09	1.7E-09	1.9E-08
445	UCART1	480151.5	3774863.98	480151.5, 3774863.98	3.33788	3.19265	3.15158	0.00121	1.44716	1.26E-05	1.12E-06	0.00E+00	2.16E-07	2.16E-05	0.0000	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	0.0E+00	9.7E-09	8.4E-09	1.8E-09	2.0E-08
446	UCART1	480201.5	3774863.98	480201.5, 3774863.98	3.58711	3.45363	3.40419	0.00134	1.53374	1.35E-05	1.21E-06	0.00E+00	2.39E-07	2.29E-05	0.0000	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-08	8.9E-09	2.0E-09	2.1E-08
447	UCART1	480251.5	3774863.98	480251.5, 3774863.98	3.83514	3.72313	3.6641	0.00147	1.62453	1.44E-05	1.30E-06	0.00E+00	2.62E-07	2.42E-05	0.0000	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08	9.5E-09	2.1E-09	2.3E-08
448	UCART1	480301.5	3774863.98	480301.5, 3774863.98	4.07178	3.99068	3.92111	0.00159	1.71791	1.53E-05	1.40E-06	0.00E+00	2.84E-07	2.56E-05	0.0000	1.5E-08	4.5E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
449	UCART1	480351.5	3774863.98	480351.5, 3774863.98	4.28573	4.24838	4.16764	0.00169	1.8147	1.61E-05	1.49E-06	0.00E+00	3.01E-07	2.71E-05	0.0000	1.6E-08	4.8E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08	1.1E-08	2.3E-09	2.5E-08
450	UCART1	480401.5	3774863.98	480401.5, 3774863.98	4.46469	4.4779	4.38623	0.00178	1.91172	1.68E-05	1.57E-06	0.00E+00	3.17E-07	2.85E-05	0.0000	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.4E-09	2.6E-08
451	UCART1	480451.5	3774863.98	480451.5, 3774863.98	4.59596	4.66455	4.56313	0.00183	2.0084	1.73E-05	1.63E-06	0.00E+00	3.26E-07	2.99E-05	0.0000	1.7E-08	5.1E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08	1.2E-08	2.5E-09	2.8E-08
452	UCART1	480501.5	3774863.98	480501.5, 3774863.98	4.67155	4.79313	4.68422	0.00184	2.10205	1.76E-05	1.68E-06	0.00E+00	3.28E-07	3.13E-05	0.0001	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.6E-09	2.9E-08
453	UCART1	480551.5	3774863.98	480551.5, 3774863.98	4.6845	4.85121	4.73802	0.00181	2.19094	1.76E-05	1.70E-06	0.00E+00	3.23E-07	3.27E-05	0.0001	1.8E-08	5.5E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.7E-09	2.9E-08
454	UCART1	480601.5	3774863.98	480601.5, 3774863.98	4.63349	4.83347	4.71973	0.00172	2.27235	1.74E-05	1.69E-06	0.00E+00	3.07E-07	3.39E-05	0.0001	1.8E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
455	UCART1	480651.5	3774863.98	480651.5, 3774863.98	4.52466	4.74458	4.63392	0.00161	2.34396	1.70E-05	1.66E-06	0.00E+00	2.87E-07	3.49E-05	0.0001	1.9E-08	5.6E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
456	UCART1	480701.5	3774863.98	480701.5, 3774863.98	4.34309	4.5534	4.44952	0.0015	2.40324	1.63E-05	1.60E-06	0.00E+00	2.68E-07	3.58E-05	0.0001	1.9E-08	5.6E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
457	UCART1	480751.5	3774863.98	480751.5, 3774863.98	4.15551	4.37913	4.2833	0.0014	2.45132	1.56E-05	1.53E-06	0.00E+00	2.50E-07	3.65E-05	0.0001	1.9E-08	5.6E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
458	UCART1	480801.5	3774863.98	480801.5, 3774863.98	3.93368	4.15322	4.067	0.00131	2.48572	1.48E-05	1.46E-06	0.00E+00	2.34E-07	3.71E-05	0.0001	1.9E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08	1.3E-08	2.8E-09	3.0E-08
459	UCART1	480851.5	3774863.98	480851.5, 3774863.98	3.67574	3.86664	3.79085	0.00123	2.50611	1.38E-05	1.36E-06	0.00E+00	2.19E-07	3.74E-05	0.0001	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.7E-09	3.0E-08
460	UCART1	480901.5	3774863.98	480901.5, 3774863.98	3.42314	3.5707	3.50518	0.00116	2.51439	1.29E-05	1.25E-06	0.00E+00	2.07E-07	3.75E-05	0.0001	1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.7E-09	2.9E-08
461	UCART1	480951.5	3774863.98	480951.5, 3774863.98	3.14995	3.20619	3.15113	0.00109	2.50923	1.19E-05	1.12E-06	0.00E+00	1.94E-07	3.74E-05	0.0001	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08	1.2E-08	2.6E-09	2.8E-08
462	UCART1	481001.5	3774863.98	481001.5, 3774863.98	2.90032	2.94381	2.89678	0.00102	2.47495	1.09E-05	1.03E-06	0.00E+00	1.82E-07	3.69E-05	0.0000	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08	1.2E-08	2.5E-09	2.7E-08
463	UCART1	481051.5	3774863.98	481051.5, 3774863.98	2.66063	2.69707	2.65694	0.00096	2.44345	1.00E-05	9.45E-07	0.00E+

Discrete Receptor ID	X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s					Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group					
				Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Onsite Running	Onsite Idle	Offroad Equip	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
498 UCART1	480551.5	3774913.98	480551.5, 3774913.98	4.02459	4.15201	4.06363	0.00153	1.99266	1.51E-05	1.46E-06	0.00E+00	2.73E-07	2.97E-05	0.0000	1.6E-08	4.9E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.4E-09	2.6E-08
499 UCART1	480601.5	3774913.98	480601.5, 3774913.98	3.98636	4.13906	4.05024	0.00146	2.06008	1.50E-05	1.45E-06	0.00E+00	2.60E-07	3.07E-05	0.0000	1.6E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.4E-09	2.7E-08
500 UCART1	480651.5	3774913.98	480651.5, 3774913.98	3.90319	4.07377	3.98695	0.00138	2.11956	1.47E-05	1.43E-06	0.00E+00	2.46E-07	3.16E-05	0.0000	1.7E-08	5.0E-08	4.0E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.5E-09	2.7E-08
501 UCART1	480701.5	3774913.98	480701.5, 3774913.98	3.76814	3.93152	3.84912	0.00128	2.16935	1.42E-05	1.38E-06	0.00E+00	2.28E-07	3.23E-05	0.0000	1.7E-08	5.0E-08	4.0E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.5E-09	2.7E-08
502 UCART1	480751.5	3774913.98	480751.5, 3774913.98	3.61992	3.78593	3.70911	0.0012	2.20999	1.36E-05	1.33E-06	0.00E+00	2.14E-07	3.29E-05	0.0000	1.7E-08	5.0E-08	4.0E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.5E-09	2.7E-08
503 UCART1	480801.5	3774913.98	480801.5, 3774913.98	3.44876	3.62016	3.54197	0.00112	2.24022	1.30E-05	1.27E-06	0.00E+00	2.00E-07	3.34E-05	0.0000	1.7E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.5E-09	2.7E-08
504 UCART1	480851.5	3774913.98	480851.5, 3774913.98	3.26148	3.4191	3.35607	0.00106	2.25993	1.23E-05	1.20E-06	0.00E+00	1.89E-07	3.37E-05	0.0000	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.4E-09	2.7E-08
505 UCART1	480901.5	3774913.98	480901.5, 3774913.98	3.05294	3.16587	3.10325	0.00099	2.26855	1.15E-05	1.11E-06	0.00E+00	1.77E-07	3.38E-05	0.0000	1.6E-08	4.9E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.3E-08	1.1E-08	2.4E-09	2.6E-08
506 UCART1	480951.5	3774913.98	480951.5, 3774913.98	2.84331	2.8851	2.83774	0.00094	2.26742	1.07E-05	1.01E-06	0.00E+00	1.68E-07	3.38E-05	0.0000	1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.2E-08	1.1E-08	2.4E-09	2.6E-08
507 UCART1	481001.5	3774913.98	481001.5, 3774913.98	2.63859	2.66883	2.62782	0.00089	2.2396	9.93E-06	9.35E-07	0.00E+00	1.59E-07	3.34E-05	0.0000	1.5E-08	4.6E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.3E-09	2.5E-08
508 UCART1	481051.5	3774913.98	481051.5, 3774913.98	2.43411	2.45753	2.4222	0.00084	2.21229	9.16E-06	8.61E-07	0.00E+00	1.50E-07	3.30E-05	0.0000	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
509 UCART1	481101.5	3774913.98	481101.5, 3774913.98	2.24024	2.26533	2.23475	0.00079	2.1727	8.43E-06	7.94E-07	0.00E+00	1.41E-07	3.24E-05	0.0000	1.4E-08	4.4E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.8E-09	2.2E-09	2.3E-08
510 UCART1	481151.5	3774913.98	481151.5, 3774913.98	2.08416	2.11138	2.08455	0.00075	2.141	7.84E-06	7.40E-07	0.00E+00	1.34E-07	3.19E-05	0.0000	1.4E-08	4.2E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.6E-09	2.1E-09	2.3E-08
511 UCART1	481201.5	3774913.98	481201.5, 3774913.98	1.92224	1.94291	1.91925	0.00071	2.0961	7.23E-06	6.81E-07	0.00E+00	1.27E-07	3.12E-05	0.0000	1.4E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.3E-09	2.0E-09	2.2E-08
512 UCART1	481251.5	3774913.98	481251.5, 3774913.98	1.78534	1.80192	1.781	0.00067	2.04904	6.72E-06	6.31E-07	0.00E+00	1.20E-07	3.05E-05	0.0000	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	9.0E-09	2.0E-09	2.1E-08
513 UCART1	481301.5	3774913.98	481301.5, 3774913.98	1.65657	1.65657	1.63816	0.00064	1.99606	6.23E-06	5.81E-07	0.00E+00	1.14E-07	2.98E-05	0.0000	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	8.6E-09	1.9E-09	2.1E-08
514 UCART1	481351.5	3774913.98	481351.5, 3774913.98	1.53612	1.51337	1.4972	0.00061	1.93368	5.78E-06	5.30E-07	0.00E+00	1.09E-07	2.88E-05	0.0000	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	9.6E-09	8.3E-09	1.8E-09	2.0E-08
515 UCART1	481401.5	3774913.98	481401.5, 3774913.98	1.41895	1.38841	1.37406	0.00058	1.85927	5.34E-06	4.87E-07	0.00E+00	1.03E-07	2.77E-05	0.0000	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	9.2E-09	7.9E-09	1.7E-09	1.9E-08
516 UCART1	481451.5	3774913.98	481451.5, 3774913.98	1.30998	1.27989	1.26702	0.00055	1.77946	4.93E-06	4.49E-07	0.00E+00	9.81E-08	2.65E-05	0.0000	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	8.7E-09	7.5E-09	1.7E-09	1.8E-08
517 UCART1	481501.5	3774913.98	481501.5, 3774913.98	1.21491	1.19153	1.17985	0.00052	1.70233	4.57E-06	4.18E-07	0.00E+00	9.28E-08	2.54E-05	0.0000	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.8E-09	0.0E+00	0.0E+00	8.3E-09	7.2E-09	1.6E-09	1.7E-08
518 UCART1	479301.5	3774963.98	479301.5, 3774963.98	0.9464	0.90874	0.90624	0.00024	0.57625	3.56E-06	3.18E-07	0.00E+00	4.28E-08	8.59E-06	0.0000	4.3E-09	1.3E-08	1.0E-08	8.9E-09	4.0E-09	0.0E+00	0.0E+00	3.4E-09	2.9E-09	6.5E-10	7.0E-09
519 UCART1	479351.5	3774963.98	479351.5, 3774963.98	0.9994	0.95892	0.95606	0.00026	0.60071	3.76E-06	3.36E-07	0.00E+00	4.64E-08	8.95E-06	0.0000	4.5E-09	1.4E-08	1.1E-08	9.4E-09	4.2E-09	0.0E+00	0.0E+00	3.6E-09	3.1E-09	6.8E-10	7.3E-09
520 UCART1	479401.5	3774963.98	479401.5, 3774963.98	1.05608	1.01244	1.00916	0.00028	0.62627	3.97E-06	3.55E-07	0.00E+00	4.99E-08	9.34E-06	0.0000	4.7E-09	1.4E-08	1.1E-08	9.8E-09	4.4E-09	0.0E+00	0.0E+00	3.7E-09	3.2E-09	7.1E-10	7.7E-09
521 UCART1	479451.5	3774963.98	479451.5, 3774963.98	1.11824	1.07128	1.06752	0.0003	0.65395	4.21E-06	3.75E-07	0.00E+00	5.35E-08	9.75E-06	0.0000	5.0E-09	1.5E-08	1.2E-08	1.0E-08	4.6E-09	0.0E+00	0.0E+00	3.9E-09	3.4E-09	7.4E-10	8.1E-09
522 UCART1	479501.5	3774963.98	479501.5, 3774963.98	1.18496	1.13428	1.12995	0.00032	0.68297	4.46E-06	3.98E-07	0.00E+00	5.71E-08	1.02E-05	0.0000	5.2E-09	1.6E-08	1.2E-08	1.1E-08	4.8E-09	0.0E+00	0.0E+00	4.1E-09	3.6E-09	7.8E-10	8.4E-09
523 UCART1	479551.5	3774963.98	479551.5, 3774963.98	1.25812	1.20355	1.19855	0.00034	0.71437	4.73E-06	4.22E-07	0.00E+00	6.06E-08	1.06E-05	0.0000	5.5E-09	1.7E-08	1.3E-08	1.1E-08	5.1E-09	0.0E+00	0.0E+00	4.3E-09	3.7E-09	8.2E-10	8.9E-09
524 UCART1	479601.5	3774963.98	479601.5, 3774963.98	1.33679	1.27791	1.27212	0.00037	0.74733	5.03E-06	4.48E-07	0.00E+00	6.60E-08	1.11E-05	0.0000	5.8E-09	1.7E-08	1.4E-08	1.2E-08	5.4E-09	0.0E+00	0.0E+00	4.5E-09	3.9E-09	8.6E-10	9.3E-09
525 UCART1	479651.5	3774963.98	479651.5, 3774963.98	1.42228	1.3588	1.35208	0.0004	0.78251	5.35E-06	4.76E-07	0.00E+00	7.13E-08	1.17E-05	0.0000	6.1E-09	1.8E-08	1.5E-08	1.3E-08	5.6E-09	0.0E+00	0.0E+00	4.8E-09	4.1E-09	9.1E-10	9.8E-09
526 UCART1	479701.5	3774963.98	479701.5, 3774963.98	1.51595	1.44785	1.44001	0.00043	0.82058	5.70E-06	5.07E-07	0.00E+00	7.67E-08	1.22E-05	0.0000	6.4E-09	1.9E-08	1.5E-08	1.3E-08	5.9E-09	0.0E+00	0.0E+00	5.0E-09	4.4E-09	9.6E-10	1.0E-08
527 UCART1	479751.5	3774963.98	479751.5, 3774963.98	1.61699	1.54401	1.53486	0.00047	0.86082	6.08E-06	5.41E-07	0.00E+00	8.38E-08	1.28E-05	0.0000	6.8E-09	2.0E-08	1.6E-08	1.4E-08	6.3E-09	0.0E+00	0.0E+00	5.3E-09	4.6E-09	1.0E-09	1.1E-08
528 UCART1	479801.5	3774963.98	479801.5, 3774963.98	1.72655	1.64878	1.63807	0.00052	0.90385	6.50E-06	5.78E-07	0.00E+00	9.28E-08	1.35E-05	0.0000	7.1E-09	2.2E-08	1.7E-08	1.5E-08	6.6E-09	0.0E+00	0.0E+00	5.6E-09	4.9E-09	1.1E-09	1.2E-08
529 UCART1	479851.5	3774963.98	479851.5, 3774963.98	1.84414	1.7616	1.74906	0.00057	0.94926	6.94E-06	6.17E-07	0.00E+00	1.02E-07	1.42E-05	0.0000	7.5E-09	2.3E-08	1.8E-08	1.6E-08	7.0E-09	0.0E+00	0.0E+00	5.9E-09	5.1E-09	1.1E-09	1.2E-08
530 UCART1	479901.5	3774963.98	479901.5, 3774963.98	1.97088	1.88421	1.86948	0.00062	0.99781	7.41E-06	6.60E-07	0.00E+00	1.11E-07	1.49E-05	0.0000	8.0E-09	2.4E-08	1.9E-08	1.6E-08	7.4E-09	0.0E+00	0.0E+00	6.3E-09	5.4E-09	1.2E-09	1.3E-08
531 UCART1	479951.5	3774963.98	479951.5, 3774963.98	2.10645	2.01667	1.99936	0.00068	1.04951	7.92E-06	7.07E-07	0.00E+00	1.21E-07	1.56E-05	0.0000	8.4E-09	2.6E-08	2.0E-08	1.7E-08	7.8E-09	0.0E+00	0.0E+00	6.6E-09	5.8E-09	1.3E-09	1.4E-08
532 UCART1	480001.5	3774963.98	480001.5, 3774963.98	2.25011	2.15876	2.13842	0.00075	1.10433	8.47E-06	7.57E-07	0.00E+00	1.34E-07	1.65E-05	0.0000	8.9E-09	2.7E-08	2.1E-08	1.8E-08	8.3E-09	0.0E+00	0.0E+00	7.0E-09	6.1E-09	1.3E-09	1.4E-08
533 UCART1	480051.5	3774963.98	480051.5, 3774963.98	2.40018	2.30913	2.28527	0.00082	1.16181	9.03E-06	8.09E-07	0.00E+00	1.46E-07	1.73E-05	0.0000	9.5E-09	2.9E-08	2.3E-08	2.0E-08	8.8E-09	0.0E+00	0.0E+00	7.4E-09	6.4E-09	1.4E-09	1.5E-08
534 UCART1	480101.5	3774963.98	480101.5, 3774963.98	2.55502	2.46691	2.439	0.00089	1.22199	9.61E-06	8.65E-07	0.00E+00	1.59E-07	1.82E-05	0.0000	1.0E-08	3.0E-08	2.4E-08	2.1E-08	9.3E-09	0.0E+00	0.0E+00	7.9E-09	6.8E-09	1.5E-09	1.6E-08
535 UCART1	480151.5	3774963.98	480151.5, 3774963.98	2.7131	2.6322	2.59965	0.00097	1.28567	1.02E-05	9.22E-07	0.00E+00	1.73E-07	1.92E-05	0.0000	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.8E-09	0.0E+00	0.0E+00	8.3E-09	7.2E-09	1.6E-09	1.7E-08
536 UCART1	480201.5	3774963.98	480201.5, 3774963.98	2.8692	2.79891	2.76125	0.00105	1.35095	1.08E-05	9.81E-07	0.00E+00	1.87E-07	2.01E-05	0.0000	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	8.7E-09	7.6E-09	1.7E-09	1.8E-08
537 UCART1	480251.5	3774963.98	480251.5, 3774963.98	3.02038	2.96632	2.92309	0.00113	1.4191	1.14E-05	1.04E-06	0.00E+00	2.02E-07	2.12E-05	0.0000	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	9.2E-09	8.0E-09	1.7E-09	1.9E-08
538 UCART1	480301.5	3774963.98	480301.5, 3774963.98	3.16907	3.12588	3.07686	0.0012	1.48777	1.19E-05	1.10E-06	0.00E+00	2.14E-07	2.22E-05	0.0000	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	9.6E-09	8.3E-09	1.8E-09	2.0E-08
539 UCART1	480351.5	3774963.98	480351.5, 3774963.98	3.28297	3.2743	3.21945	0.00126	1.55794	1.24E-05	1.15E-06	0.00E+00	2.25E-07	2.32E-05	0.0000	1.3E-08	3.9E-08	3.1E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	8.7E-09	1.9E-09	2.1E-08
540 UCART1	480401.5	3774963.98	480401.5, 3774963.98	3.38253	3.40199	3.34171	0.0013	1.62774	1.27E-05	1.19E-06	0.00E+00	2.32E-07	2.43E-05	0.0000	1.3E-08	4.0E-08	3.2E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	9.1E-09	2.0E-09	2.2E-08
541 UCART1	480451.5	3774963.98	480451.5, 3774963.98	3.45522	3.50316	3.43822	0.00133	1.69543	1.30E-05	1.23E-06	0.00E+00	2.37E-07	2.53E-05	0.0000	1.4E-08	4.2E-08	3.3E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.4E-09	2.1E-09	2.2E-08
542 UCART1	480501.5	3774963.98	480501.5, 3774963.98	3.49457	3.57007	3.50166	0.00133	1.76119	1.31E-05	1.25E-06	0.00E+00	2.37E-07	2.63E-05	0.0000	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.6E-09	2.1E-09	2.3E-08
543 UCART1	480551.5	3774963.98	480551.5, 3774963.98	3.49945	3.59932	3.52893	0.0013	1.82279	1.32E-05	1.26E-06	0.00E+00	2.32E-07	2.72E-05	0.0000	1.4E-08	4.4E-08	3.5E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.9E-09	2.2E-09	2.3E-08
544 UCART1	480601.5	3774963.98	480601.5, 3774963.98	3.47224	3.5917	3.52089	0.00126	1.87902	1.31E-05	1.26E-06	0.00E+00	2.25E-07	2.80E-05	0.0000	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
545 UCART1	480651.5	3774963.98	480651.5, 3774963.98	3.40903	3.54342	3.47391	0.00119	1.92904	1.28E-05	1.24E-06	0.00E+00	2.12E-07	2.88E-05	0.0000	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
546 UCART1	480701.5	3774963.98	480701.5, 3774963.98	3.30459	3.43362	3.36712	0.00111	1.97122	1.24E-05	1.20E-06	0.00E+00	1.98E-07	2.94E-05	0.0000	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
547 UCART1	480751.5	3774963.98	480751.5, 3774963.98	3.18227	3.28441	3.2145	0.00104	2.0055	1.20E-05	1.15E-06	0.00E+00	1.86E-07	2.99E-05	0.0000	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
548 UCART1	480801.5	3774963.98	480801.5, 3774963.98	3.05907	3.19238	3.13439	0.00098	2.03267	1.15E-05	1.12E-06	0.00E+00	1.75E-07	3.03E-05	0.0000	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
549 UCART1	480851.5	3774963.98	480851.5, 3774963.98	2.91249	3.02267	2.97018	0.00092	2.05071	1.10E-05	1.06E-06	0.00E+00	1.64E-07	3.06E-05	0.0000	1.5E-08	4.5E-08	3.5E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.2E-08	1.0E-08	2.2E-09	2.4E-08
550 UCART1	480901.5	3774963.98	480901.5, 3774963.98	2.73066	2.75871	2.71295	0.00086	2.05825	1.02E-05	9.67E-07	0.00E+00	1.53E-07	3.07E-05	0.0000	1.4E-08	4.3E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	1.1E-08	9.9E-09	2.2E-09	2.3E-08
551 UCART1	480951.5	3774963.98	480951.5, 3774963.98	2.55657	2.57281	2.53249	0.00081	2.03911	9.62E-06	9.02E-07	0.00E+00	1.44E-07	3.04E-05	0.0000	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.7E-09	2.1E-09	2.3E-08
552 UCART1	481001.5	3774963.98	481001.5, 3774963.98	2.3831	2.39495	2.35961	0.00077	2.02122	8.97E-06	8.39E-07	0.00E+00	1.37E-07	3.01E-05	0.0000	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.4E-09	2.1E-09	2.2E-08
553 UCART1	481051.5	3774963.98	481051.5, 3774963.98	2.21184	2.22576	2.19483	0.00073	1.99801	8.32E-06	7.80E-07	0.00E+00	1.30E-07	2.98E-05	0.0000	1.4E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.2E-09	2.0E-09	2.2E-08
554 UCART1	481101.5	3774963.98	481101.5, 3774963.98	2.06442	2.08012	2.0528	0.0007	1.97387	7.77E-06	7.29E-07	0.00E+00	1.25E-07	2.94E-05	0.0000	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	9.0E-09	2.0E-09	2.1E-08
555 UCART1	481151.5	3774963.98	481151.5, 3774963.98	1.91632	1.9257	1.90157	0.00066	1.94163	7.21E-06	6.75E-07	0.00E+00	1.18E-07	2.89E-05	0.0000	1.3E-08	3.9E-08	3.1E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	8.7E-09	1.9E-09	2.1E-08
556 UCART1	481201.5	3774963.98	481201.5, 3774963.98	1.78597	1.79065	1.76931	0.00063	1.9049	6.72E-06	6.28E-07	0.00E+00	1.12E-07	2.84E-05	0.0000	1.2E-08	3.7E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	9.8E-09	8.5E-09	1.8E-09	2.0E-08
557 UCART1	481251.5	3774963.98	481251.5, 3774963.98	1.65858	1.64106	1.62245	0.0006	1.85926	6.24E-06	5.75E-07	0.00E+00	1.07E-07	2.77E-05	0.0000	1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	9.4E-09	8.2E-09	1.8E-09	1.9E-08
558 UCART1	481301.5	3774963.98	481301.5, 3774963.98	1.54296	1.5068	1.4905	0.00057	1.80741	5.80E-06	5.28E-07	0.00E+00	1.02E-07	2.69E-05	0.0000	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	9.1E-09	7.9E-09	1.7E-09	1.9E-08
559 UCART1	481351.5	3774963.98	481351.5, 3774963.98	1.4289	1.38659	1.37221	0.00054	1.74888	5.38E-06	4.86E-07	0.00E+00	9.63E-08	2.61E-05	0.0000	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	8.7E-09	7.6E-09	1.7E-09	1.8E-08
560 UCART1	481401.5	3774963.98	481401.5, 3774963.98	1.32277	1.28107	1.26827	0.00052	1.68309	4.98E-06	4.49E-07	0.00E+00	9.28E-08	2.51E-05	0.0000	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.8E-09	0.0E+00	0.0E+00	8.3E-09	7.2E-09	1.6E-09	1.7E-08
561 UCART1	481451.5	3774963.98	481451.5, 3774963.98	1.22382	1.18814	1.17664	0.0005	1.61487	4.66E-06	4.16E-07	0.00E+00	8.92E-08	2.41E-05	0.0000	1.0E-08	3.1E-08	2.4E-08	2.1E-08	9.4E-09	0.0E+00	0.0E+00	8.0E-09	6.9E-09	1.5E-09	1.6E-08
562 UCART1	480801.5	3775013.98	480801.5, 3775013.98	2.72057	2.79614	2.74161	0.00086	1.85397	1.02E-05	9.80E-07	0.00E+00	1.53E-07	2.76E-05	0.0000	1.4E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.1E-08	9.2E-09	2.0E-09	2.2E-08
563 UCART1	480851.5	3775013.98	480851.5, 3775013.98	2.59354	2.61122	2.56819	0.00081	1.86933	9.76E-06	9.15E-07	0.00E+00	1.44E-07	2.79E-05	0.0000	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	1.1E-08	9.1E-09	2.0E-09	2.2E-08
564 UCART1	480901.5	3775013.98	480901.5, 3775013.98	2.45618	2.46441	2.42563	0.00076	1.87736	9.24E-06	8.64E-07	0.00E+00	1.36E-07	2.80E-05	0.0000	1.3E-08	4.0E-08	3.2E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	9.0E-09	2.0E-09	2.1E-08
565 UCART1	480951.5	3775013.98	480951.5, 3775013.98	2.31855	2.32366	2.28889	0.00072	1.85968	8.72E-06	8.14E-07	0.00E+00	1.28E-07	2.77E-05	0.0000	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	8.8E-09	1.9E-09	2.1E-08
566 UCART1	481001.5	3775013.98	481001.5, 3775013.98	2.17412	2.17861	2.14775	0.00068	1.84363	8.18E-06	7.63E-07	0.00E+00	1.21E-07	2.75E-05	0.0000	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.0E-08	8.6E-09	1.9E-09	2.0E-08
567 UCART1	481051.5	3775013.98	481051.5, 3775013.98	2.02944	2.03614	2.00873	0.00065	1.82099	7.64E-06	7

PROJECT TITLE:

Highland, Meines&Palm CSTN

COMMENTS:

SOURCES:

3

RECEPTORS:

775

COMPANY NAME:

MODELER:

DATE:

4/20/2023

SCALE: 1:16,237

0 0.5 km

PROJECT NO.:

PROJECT TITLE:

Highland, Meines&Palm OP

COMMENTS:

SOURCES:

7

RECEPTORS:

775

COMPANY NAME:

MODELER:

DATE:

4/20/2023

SCALE: 1:11,888

0 0.3 km

PROJECT NO.:

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** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/14/2023
** File: C:\Lakes\Highland_Meines&Palm_CSTN\Highland_Meines&Palm_CSTN.ADI
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** AERMOD Control Pathway
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   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL Highland_Meines&Palm_CSTN.err
CO FINISHED
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**************************************
** AERMOD Source Pathway
**************************************
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SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** LINE VOLUME Source ID = SLINE1
** DESCRSRC ONSITE
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 29
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LOCATION L0000165 VOLUME 480618.238 3774257.963 362.00
LOCATION L0000166 VOLUME 480603.286 3774259.169 362.00
LOCATION L0000167 VOLUME 480588.335 3774260.375 362.00
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LOCATION L0000169 VOLUME 480558.432 3774262.788 361.28
LOCATION L0000170 VOLUME 480543.481 3774263.994 361.00
LOCATION L0000171 VOLUME 480528.529 3774265.201 361.00
LOCATION L0000172 VOLUME 480513.578 3774266.407 360.93
LOCATION L0000173 VOLUME 480498.626 3774267.614 360.73
LOCATION L0000174 VOLUME 480483.675 3774268.820 360.46
LOCATION L0000175 VOLUME 480469.383 3774266.171 360.21
LOCATION L0000176 VOLUME 480455.681 3774260.067 360.00
LOCATION L0000177 VOLUME 480441.978 3774253.964 360.00
LOCATION L0000178 VOLUME 480428.276 3774247.860 360.00
LOCATION L0000179 VOLUME 480414.574 3774241.756 360.00

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   LOCATION L0000180     VOLUME   480414.430 3774232.680 360.00
   LOCATION L0000181     VOLUME   480429.407 3774231.849 360.00
   LOCATION L0000182     VOLUME   480444.384 3774231.019 360.00
   LOCATION L0000183     VOLUME   480459.361 3774230.188 360.00
   LOCATION L0000184     VOLUME   480474.338 3774229.358 360.48
   LOCATION L0000185     VOLUME   480489.315 3774228.527 360.98
   LOCATION L0000186     VOLUME   480504.292 3774227.697 361.00
   LOCATION L0000187     VOLUME   480519.269 3774226.866 361.00
   LOCATION L0000188     VOLUME   480534.246 3774226.036 361.00
   LOCATION L0000189     VOLUME   480549.223 3774225.206 361.00
   LOCATION L0000190     VOLUME   480564.200 3774224.375 361.48
   LOCATION L0000191     VOLUME   480579.177 3774223.545 361.98
   LOCATION L0000192     VOLUME   480594.154 3774222.714 362.00
   LOCATION L0000193     VOLUME   480609.131 3774221.884 362.00
   LOCATION L0000194     VOLUME   480624.108 3774221.053 362.00
   LOCATION L0000195     VOLUME   480639.085 3774220.223 362.00
   LOCATION L0000196     VOLUME   480654.062 3774219.392 362.00
   LOCATION L0000197     VOLUME   480669.039 3774218.562 362.00
   LOCATION L0000198     VOLUME   480684.016 3774217.731 362.47
   LOCATION L0000199     VOLUME   480698.993 3774216.901 362.97
   LOCATION L0000200     VOLUME   480713.970 3774216.070 363.00
   LOCATION L0000201     VOLUME   480723.213 3774220.665 363.00
   LOCATION L0000202     VOLUME   480721.557 3774235.573 363.00
   LOCATION L0000203     VOLUME   480707.915 3774237.757 363.00
   LOCATION L0000204     VOLUME   480692.935 3774238.519 362.86
   LOCATION L0000205     VOLUME   480677.954 3774239.280 362.59
   LOCATION L0000206     VOLUME   480662.973 3774240.042 362.35
   LOCATION L0000207     VOLUME   480647.993 3774240.804 362.13
   LOCATION L0000208     VOLUME   480633.012 3774241.565 362.00
   LOCATION L0000209     VOLUME   480618.031 3774242.327 362.00
   LOCATION L0000210     VOLUME   480603.051 3774243.089 362.00
   LOCATION L0000211     VOLUME   480588.070 3774243.851 362.00
   LOCATION L0000212     VOLUME   480573.089 3774244.612 361.77
   LOCATION L0000213     VOLUME   480558.109 3774245.374 361.27
   LOCATION L0000214     VOLUME   480543.128 3774246.136 361.00
   LOCATION L0000215     VOLUME   480528.148 3774246.898 361.00
   LOCATION L0000216     VOLUME   480513.167 3774247.659 361.00
   LOCATION L0000217     VOLUME   480498.186 3774248.421 361.00
   LOCATION L0000218     VOLUME   480483.206 3774249.183 360.78
   LOCATION L0000219     VOLUME   480468.353 3774248.372 360.28
   LOCATION L0000220     VOLUME   480453.691 3774245.202 360.00
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Palm Ave n/o 5th
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.220756376
** Vertical Dimension = 6.22
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** SZINIT = 2.89
** Nodes = 2
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** 480742.531, 3774137.631, 363.29, 3.11, 10.23
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   LOCATION L0008653     VOLUME   480744.115 3774377.624 363.00
   LOCATION L0008654     VOLUME   480743.970 3774355.625 363.00
   LOCATION L0008655     VOLUME   480743.825 3774333.625 363.00
   LOCATION L0008656     VOLUME   480743.680 3774311.626 363.00
   LOCATION L0008657     VOLUME   480743.535 3774289.626 363.00
   LOCATION L0008658     VOLUME   480743.389 3774267.627 363.00
   LOCATION L0008659     VOLUME   480743.244 3774245.627 363.00
   LOCATION L0008660     VOLUME   480743.099 3774223.628 363.00
   LOCATION L0008661     VOLUME   480742.954 3774201.628 363.00
   LOCATION L0008662     VOLUME   480742.809 3774179.628 363.00
   LOCATION L0008663     VOLUME   480742.663 3774157.629 363.12
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC W 5th e/o Palm
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.779243624
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 480739.701, 3774137.378, 363.16, 3.11, 10.23
** 481145.571, 3774108.714, 367.97, 3.11, 10.23
** 481623.673, 3774139.671, 373.93, 3.11, 10.23
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   LOCATION L0008573     VOLUME   480750.673 3774136.603 363.68
   LOCATION L0008574     VOLUME   480772.619 3774135.053 364.00
   LOCATION L0008575     VOLUME   480794.564 3774133.503 364.00
   LOCATION L0008576     VOLUME   480816.509 3774131.953 364.00
   LOCATION L0008577     VOLUME   480838.455 3774130.403 364.12
   LOCATION L0008578     VOLUME   480860.400 3774128.854 364.51
   LOCATION L0008579     VOLUME   480882.345 3774127.304 365.00
   LOCATION L0008580     VOLUME   480904.291 3774125.754 365.00
   LOCATION L0008581     VOLUME   480926.236 3774124.204 365.00
   LOCATION L0008582     VOLUME   480948.181 3774122.654 365.28
   LOCATION L0008583     VOLUME   480970.127 3774121.105 366.00
   LOCATION L0008584     VOLUME   480992.072 3774119.555 366.00
   LOCATION L0008585     VOLUME   481014.017 3774118.005 366.00
   LOCATION L0008586     VOLUME   481035.963 3774116.455 366.20
   LOCATION L0008587     VOLUME   481057.908 3774114.905 366.93
   LOCATION L0008588     VOLUME   481079.853 3774113.355 367.00
   LOCATION L0008589     VOLUME   481101.799 3774111.806 367.00
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   LOCATION L0008591     VOLUME   481145.689 3774108.722 367.86
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   LOCATION L0008593     VOLUME   481189.598 3774111.565 368.00
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   LOCATION L0008595     VOLUME   481233.506 3774114.408 368.79
   LOCATION L0008596     VOLUME   481255.460 3774115.829 369.00
   LOCATION L0008597     VOLUME   481277.414 3774117.251 369.00
   LOCATION L0008598     VOLUME   481299.368 3774118.672 369.00
   LOCATION L0008599     VOLUME   481321.322 3774120.094 369.71
   LOCATION L0008600     VOLUME   481343.276 3774121.515 370.00
   LOCATION L0008601     VOLUME   481365.230 3774122.937 370.00
   LOCATION L0008602     VOLUME   481387.184 3774124.358 370.00
   LOCATION L0008603     VOLUME   481409.138 3774125.780 370.64
   LOCATION L0008604     VOLUME   481431.092 3774127.201 371.00
   LOCATION L0008605     VOLUME   481453.046 3774128.623 371.03
   LOCATION L0008606     VOLUME   481475.000 3774130.044 371.17
   LOCATION L0008607     VOLUME   481496.954 3774131.466 371.64
   LOCATION L0008608     VOLUME   481518.908 3774132.887 372.00
   LOCATION L0008609     VOLUME   481540.862 3774134.309 372.00
   LOCATION L0008610     VOLUME   481562.816 3774135.730 372.01
   LOCATION L0008611     VOLUME   481584.770 3774137.152 372.50
   LOCATION L0008612     VOLUME   481606.724 3774138.573 373.21
** End of LINE VOLUME Source ID = SLINE3
** Source Parameters **
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   SRCPARAM L0000010     0.0045454545      3.11      6.98      2.89
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SRCPARAM L0000174     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000175     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000176     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000177     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000178     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000179     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000180     0.0045454545      3.11      6.98      2.89
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   SRCPARAM L0000181     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000182     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000183     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000184     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000185     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000186     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000187     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000188     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000189     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000190     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000191     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000192     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000193     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000194     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000195     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000196     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000197     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000198     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000199     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000200     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000201     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000202     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000203     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000204     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000205     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000206     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000207     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000208     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000209     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000210     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000211     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000212     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000213     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000214     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000215     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000216     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000217     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000218     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000219     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000220     0.0045454545      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0008653     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008654     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008655     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008656     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008657     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008658     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008659     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008660     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008661     0.0200687615      3.11     10.23      2.89
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   SRCPARAM L0008662     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008663     0.0200687615      3.11     10.23      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0008573     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008574     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008575     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008576     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008577     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008578     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008579     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008580     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008581     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008582     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008583     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008584     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008585     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008586     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008587     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008588     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008589     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008590     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008591     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008592     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008593     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008594     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008595     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008596     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008597     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008598     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008599     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008600     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008601     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008602     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008603     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008604     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008605     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008606     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008607     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008608     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008609     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008610     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008611     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008612     0.0194810906      3.11     10.23      2.89
** ------------------------------------------------------------------
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "CSTN"
   EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
   EMISFACT L0000001     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000002     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000003     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000003     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000004     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000004     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000005     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000006     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000007     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000008     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000009     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000010     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000011     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000011     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000012     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000013     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000013     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000014     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000015     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000016     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000017     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000018     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000019     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000020     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000021     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000022     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000023     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000024     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000025     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000026     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000027     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000028     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000029     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000030     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000031     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000032     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000033     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000034     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000035     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000036     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000037     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000038     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000039     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000040     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000041     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000042     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000043     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000044     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000045     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000046     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000047     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000048     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000049     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000050     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000051     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000052     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000053     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000069     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000086     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000094     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000103     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000104     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000104     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000105     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000105     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000106     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000109     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000113     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000116     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000117     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000117     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000118     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000118     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000118     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000119     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000119     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000119     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000120     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000120     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000121     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000121     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000122     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000122     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000123     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000124     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000124     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000124     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000125     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000125     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000126     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000127     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000137     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000154     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000158     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000162     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000171     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000173     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000187     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000187     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000187     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000188     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000188     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000188     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000189     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000189     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000189     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000190     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000190     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000191     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000191     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000192     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000192     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000192     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000193     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000193     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000194     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000194     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000194     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000195     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000195     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000195     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000196     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000205     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000087     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000103     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000104     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000189     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000094     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000099     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000099     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000100     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000171     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000172     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000172     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000172     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000173     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000173     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000083     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000174     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000081     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000081     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000081     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000082     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000083     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000158     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000013     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000109     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000210     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000210     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000211     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000211     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000213     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000213     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000214     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000214     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000215     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000215     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000215     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000216     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000216     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000216     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000217     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000217     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000217     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000218     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000218     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000219     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0008654     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0008659     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0008660     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0008593     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008594     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008594     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008594     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008595     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008595     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008595     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008596     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008596     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008596     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008597     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008597     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008597     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008598     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008598     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008598     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008599     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008599     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008599     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008600     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008600     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008600     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008601     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008601     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008601     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008602     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008602     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008602     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008603     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008603     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
```

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EMISFACT L0008603     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008604     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008604     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008604     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008605     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008605     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008605     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008606     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008606     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008606     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008607     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008607     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008607     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008608     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008608     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008608     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008609     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008609     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008609     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008610     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008610     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008610     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008611     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008611     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008611     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008612     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008612     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008612     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP Onsite   L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP Onsite   L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
SRCGROUP Onsite   L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
SRCGROUP Onsite   L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
SRCGROUP Onsite   L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP Onsite   L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP Onsite   L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
SRCGROUP Onsite   L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
SRCGROUP Onsite   L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
SRCGROUP Onsite   L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
SRCGROUP Onsite   L0000061 L0000062 L0000063 L0000064 L0000065 L0000066
SRCGROUP Onsite   L0000067 L0000068 L0000069 L0000070 L0000071 L0000072
SRCGROUP Onsite   L0000073 L0000074 L0000075 L0000076 L0000077 L0000078
SRCGROUP Onsite   L0000079 L0000080 L0000081 L0000082 L0000083 L0000084
SRCGROUP Onsite   L0000085 L0000086 L0000087 L0000088 L0000089 L0000090
SRCGROUP Onsite   L0000091 L0000092 L0000093 L0000094 L0000095 L0000096
SRCGROUP Onsite   L0000097 L0000098 L0000099 L0000100 L0000101 L0000102
SRCGROUP Onsite   L0000103 L0000104 L0000105 L0000106 L0000107 L0000108
SRCGROUP Onsite   L0000109 L0000110 L0000111 L0000112 L0000113 L0000114
SRCGROUP Onsite   L0000115 L0000116 L0000117 L0000118 L0000119 L0000120
SRCGROUP Onsite   L0000121 L0000122 L0000123 L0000124 L0000125 L0000126
SRCGROUP Onsite   L0000127 L0000128 L0000129 L0000130 L0000131 L0000132
SRCGROUP Onsite   L0000133 L0000134 L0000135 L0000136 L0000137 L0000138
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   SRCGROUP Onsite   L0000139 L0000140 L0000141 L0000142 L0000143 L0000144
   SRCGROUP Onsite   L0000145 L0000146 L0000147 L0000148 L0000149 L0000150
   SRCGROUP Onsite   L0000151 L0000152 L0000153 L0000154 L0000155 L0000156
   SRCGROUP Onsite   L0000157 L0000158 L0000159 L0000160 L0000161 L0000162
   SRCGROUP Onsite   L0000163 L0000164 L0000165 L0000166 L0000167 L0000168
   SRCGROUP Onsite   L0000169 L0000170 L0000171 L0000172 L0000173 L0000174
   SRCGROUP Onsite   L0000175 L0000176 L0000177 L0000178 L0000179 L0000180
   SRCGROUP Onsite   L0000181 L0000182 L0000183 L0000184 L0000185 L0000186
   SRCGROUP Onsite   L0000187 L0000188 L0000189 L0000190 L0000191 L0000192
   SRCGROUP Onsite   L0000193 L0000194 L0000195 L0000196 L0000197 L0000198
   SRCGROUP Onsite   L0000199 L0000200 L0000201 L0000202 L0000203 L0000204
   SRCGROUP Onsite   L0000205 L0000206 L0000207 L0000208 L0000209 L0000210
   SRCGROUP Onsite   L0000211 L0000212 L0000213 L0000214 L0000215 L0000216
   SRCGROUP Onsite   L0000217 L0000218 L0000219 L0000220
   SRCGROUP Offsite  L0008653 L0008654 L0008655 L0008656 L0008657 L0008658
   SRCGROUP Offsite  L0008659 L0008660 L0008661 L0008662 L0008663 L0008573
   SRCGROUP Offsite  L0008574 L0008575 L0008576 L0008577 L0008578 L0008579
   SRCGROUP Offsite  L0008580 L0008581 L0008582 L0008583 L0008584 L0008585
   SRCGROUP Offsite  L0008586 L0008587 L0008588 L0008589 L0008590 L0008591
   SRCGROUP Offsite  L0008592 L0008593 L0008594 L0008595 L0008596 L0008597
   SRCGROUP Offsite  L0008598 L0008599 L0008600 L0008601 L0008602 L0008603
   SRCGROUP Offsite  L0008604 L0008605 L0008606 L0008607 L0008608 L0008609
   SRCGROUP Offsite  L0008610 L0008611 L0008612
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Highland_Meines&Palm_CSTN.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE RDLD_v9.SFC
   PROFFILE RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 481.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST HIGHLAND_MEINES&PALM_CSTN.AD\01H1GALL.PLT 31
   PLOTFILE 1 Onsite 1ST HIGHLAND_MEINES&PALM_CSTN.AD\01H1G001.PLT 32
   PLOTFILE 1 Offsite 1ST HIGHLAND_MEINES&PALM_CSTN.AD\01H1G002.PLT 33
   PLOTFILE PERIOD ALL HIGHLAND_MEINES&PALM_CSTN.AD\PE00GALL.PLT 34
   PLOTFILE PERIOD Onsite HIGHLAND_MEINES&PALM_CSTN.AD\PE00G001.PLT 35
   PLOTFILE PERIOD Offsite HIGHLAND_MEINES&PALM_CSTN.AD\PE00G002.PLT 36
   SUMMFILE Highland_Meines&Palm_CSTN.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/14/2023
** File: C:\Lakes\Highland_Meines&Palm_CSTN\Highland_Meines&Palm_CSTN.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Highland, Meines&Palm CSTN
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL Highland_Meines&Palm_CSTN.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC ONSITE
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 29
** 480413.768, 3774374.125, 359.35, 3.11, 6.98
** 480467.632, 3774388.489, 360.00, 3.11, 6.98
** 480729.769, 3774381.307, 363.00, 3.11, 6.98
** 480728.572, 3774363.352, 363.00, 3.11, 6.98
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** 480470.624, 3774375.322, 360.00, 3.11, 6.98
** 480412.571, 3774360.360, 359.22, 3.11, 6.98
** 480411.973, 3774337.617, 359.48, 3.11, 6.98
** 480473.018, 3774357.367, 360.00, 3.11, 6.98
** 480726.777, 3774340.610, 363.00, 3.11, 6.98
** 480724.981, 3774325.648, 363.00, 3.11, 6.98
** 480472.420, 3774340.011, 360.00, 3.11, 6.98
** 480410.177, 3774322.057, 359.95, 3.11, 6.98
** 480409.579, 3774299.314, 360.00, 3.11, 6.98
** 480471.821, 3774320.860, 360.00, 3.11, 6.98
** 480721.989, 3774306.496, 363.00, 3.11, 6.98
** 480722.587, 3774281.958, 363.00, 3.11, 6.98
** 480475.412, 3774302.905, 360.00, 3.11, 6.98
** 480410.776, 3774281.958, 360.00, 3.11, 6.98
** 480410.776, 3774259.814, 360.00, 3.11, 6.98
** 480474.814, 3774287.345, 360.00, 3.11, 6.98
** 480721.390, 3774266.398, 363.00, 3.11, 6.98
** 480721.390, 3774249.640, 363.00, 3.11, 6.98
** 480476.609, 3774269.390, 360.48, 3.11, 6.98
** 480410.776, 3774240.064, 360.00, 3.11, 6.98
** 480410.776, 3774232.882, 359.95, 3.11, 6.98
** 480723.784, 3774215.526, 363.00, 3.11, 6.98
** 480721.390, 3774237.072, 363.00, 3.11, 6.98
** 480474.215, 3774249.640, 360.35, 3.11, 6.98
** 480452.071, 3774244.852, 360.07, 3.11, 6.98
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   LOCATION L0000002     VOLUME   480435.508 3774379.923 360.00
   LOCATION L0000003     VOLUME   480450.002 3774383.787 360.00
   LOCATION L0000004     VOLUME   480464.495 3774387.652 360.00
   LOCATION L0000005     VOLUME   480479.381 3774388.167 360.00
   LOCATION L0000006     VOLUME   480494.376 3774387.756 360.15
   LOCATION L0000007     VOLUME   480509.370 3774387.345 360.65
   LOCATION L0000008     VOLUME   480524.365 3774386.934 361.00
   LOCATION L0000009     VOLUME   480539.359 3774386.524 361.00
   LOCATION L0000010     VOLUME   480554.353 3774386.113 361.15
   LOCATION L0000011     VOLUME   480569.348 3774385.702 361.65
   LOCATION L0000012     VOLUME   480584.342 3774385.291 362.00
   LOCATION L0000013     VOLUME   480599.336 3774384.880 362.00
   LOCATION L0000014     VOLUME   480614.331 3774384.470 362.00
   LOCATION L0000015     VOLUME   480629.325 3774384.059 362.00
   LOCATION L0000016     VOLUME   480644.320 3774383.648 362.00
   LOCATION L0000017     VOLUME   480659.314 3774383.237 362.00
   LOCATION L0000018     VOLUME   480674.308 3774382.826 362.15
   LOCATION L0000019     VOLUME   480689.303 3774382.416 362.65
   LOCATION L0000020     VOLUME   480704.297 3774382.005 363.00
   LOCATION L0000021     VOLUME   480719.291 3774381.594 363.00
   LOCATION L0000022     VOLUME   480729.468 3774376.798 363.00
   LOCATION L0000023     VOLUME   480727.050 3774363.423 363.00
   LOCATION L0000024     VOLUME   480712.066 3774364.118 363.00
   LOCATION L0000025     VOLUME   480697.082 3774364.814 362.91
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LOCATION L0000026 VOLUME 480682.098 3774365.509 362.41
LOCATION L0000027 VOLUME 480667.114 3774366.204 362.00
LOCATION L0000028 VOLUME 480652.130 3774366.900 362.00
LOCATION L0000029 VOLUME 480637.146 3774367.595 362.00
LOCATION L0000030 VOLUME 480622.162 3774368.290 362.00
LOCATION L0000031 VOLUME 480607.179 3774368.985 362.00
LOCATION L0000032 VOLUME 480592.195 3774369.681 362.00
LOCATION L0000033 VOLUME 480577.211 3774370.376 361.91
LOCATION L0000034 VOLUME 480562.227 3774371.071 361.41
LOCATION L0000035 VOLUME 480547.243 3774371.767 361.00
LOCATION L0000036 VOLUME 480532.259 3774372.462 361.00
LOCATION L0000037 VOLUME 480517.275 3774373.157 360.91
LOCATION L0000038 VOLUME 480502.291 3774373.853 360.41
LOCATION L0000039 VOLUME 480487.308 3774374.548 360.00
LOCATION L0000040 VOLUME 480472.324 3774375.243 360.00
LOCATION L0000041 VOLUME 480457.746 3774372.003 360.00
LOCATION L0000042 VOLUME 480443.221 3774368.259 360.00
LOCATION L0000043 VOLUME 480428.696 3774364.516 359.96
LOCATION L0000044 VOLUME 480414.170 3774360.772 359.48
LOCATION L0000045 VOLUME 480412.220 3774347.016 359.41
LOCATION L0000046 VOLUME 480417.299 3774339.341 359.68
LOCATION L0000047 VOLUME 480431.571 3774343.958 360.00
LOCATION L0000048 VOLUME 480445.842 3774348.575 360.00
LOCATION L0000049 VOLUME 480460.114 3774353.193 360.00
LOCATION L0000050 VOLUME 480474.452 3774357.273 360.00
LOCATION L0000051 VOLUME 480489.420 3774356.284 360.00
LOCATION L0000052 VOLUME 480504.387 3774355.296 360.48
LOCATION L0000053 VOLUME 480519.355 3774354.308 360.98
LOCATION L0000054 VOLUME 480534.322 3774353.319 361.00
LOCATION L0000055 VOLUME 480549.289 3774352.331 361.00
LOCATION L0000056 VOLUME 480564.257 3774351.342 361.48
LOCATION L0000057 VOLUME 480579.224 3774350.354 361.98
LOCATION L0000058 VOLUME 480594.192 3774349.365 362.00
LOCATION L0000059 VOLUME 480609.159 3774348.377 362.00
LOCATION L0000060 VOLUME 480624.126 3774347.389 362.00
LOCATION L0000061 VOLUME 480639.094 3774346.400 362.00
LOCATION L0000062 VOLUME 480654.061 3774345.412 362.00
LOCATION L0000063 VOLUME 480669.029 3774344.423 362.00
LOCATION L0000064 VOLUME 480683.996 3774343.435 362.47
LOCATION L0000065 VOLUME 480698.963 3774342.447 362.97
LOCATION L0000066 VOLUME 480713.931 3774341.458 363.00
LOCATION L0000067 VOLUME 480726.523 3774338.499 363.00
LOCATION L0000068 VOLUME 480722.928 3774325.764 363.00
LOCATION L0000069 VOLUME 480707.952 3774326.616 363.00
LOCATION L0000070 VOLUME 480692.976 3774327.468 362.77
LOCATION L0000071 VOLUME 480678.000 3774328.320 362.27
LOCATION L0000072 VOLUME 480663.024 3774329.171 362.00
LOCATION L0000073 VOLUME 480648.049 3774330.023 362.00
LOCATION L0000074 VOLUME 480633.073 3774330.875 362.00
LOCATION L0000075 VOLUME 480618.097 3774331.726 362.00
LOCATION L0000076 VOLUME 480603.121 3774332.578 362.00

LOCATION L0000077 VOLUME 480588.145 3774333.430 362.00
LOCATION L0000078 VOLUME 480573.170 3774334.282 361.78
LOCATION L0000079 VOLUME 480558.194 3774335.133 361.28
LOCATION L0000080 VOLUME 480543.218 3774335.985 361.00
LOCATION L0000081 VOLUME 480528.242 3774336.837 361.00
LOCATION L0000082 VOLUME 480513.266 3774337.688 360.78
LOCATION L0000083 VOLUME 480498.291 3774338.540 360.28
LOCATION L0000084 VOLUME 480483.315 3774339.392 360.00
LOCATION L0000085 VOLUME 480468.493 3774338.879 360.00
LOCATION L0000086 VOLUME 480454.080 3774334.721 360.00
LOCATION L0000087 VOLUME 480439.668 3774330.564 360.00
LOCATION L0000088 VOLUME 480425.256 3774326.406 359.95
LOCATION L0000089 VOLUME 480410.843 3774322.249 359.87
LOCATION L0000090 VOLUME 480409.801 3774307.755 360.00
LOCATION L0000091 VOLUME 480415.775 3774301.459 360.00
LOCATION L0000092 VOLUME 480429.949 3774306.366 360.00
LOCATION L0000093 VOLUME 480444.124 3774311.272 360.00
LOCATION L0000094 VOLUME 480458.299 3774316.179 360.00
LOCATION L0000095 VOLUME 480472.511 3774320.820 360.00
LOCATION L0000096 VOLUME 480487.486 3774319.960 360.00
LOCATION L0000097 VOLUME 480502.461 3774319.101 360.42
LOCATION L0000098 VOLUME 480517.437 3774318.241 360.92
LOCATION L0000099 VOLUME 480532.412 3774317.381 361.00
LOCATION L0000100 VOLUME 480547.387 3774316.521 361.00
LOCATION L0000101 VOLUME 480562.363 3774315.661 361.42
LOCATION L0000102 VOLUME 480577.338 3774314.801 361.91
LOCATION L0000103 VOLUME 480592.313 3774313.942 362.00
LOCATION L0000104 VOLUME 480607.289 3774313.082 362.00
LOCATION L0000105 VOLUME 480622.264 3774312.222 362.00
LOCATION L0000106 VOLUME 480637.239 3774311.362 362.00
LOCATION L0000107 VOLUME 480652.215 3774310.502 362.08
LOCATION L0000108 VOLUME 480667.190 3774309.642 362.20
LOCATION L0000109 VOLUME 480682.165 3774308.783 362.56
LOCATION L0000110 VOLUME 480697.141 3774307.923 362.93
LOCATION L0000111 VOLUME 480712.116 3774307.063 363.00
LOCATION L0000112 VOLUME 480722.113 3774301.387 363.00
LOCATION L0000113 VOLUME 480722.479 3774286.391 363.00
LOCATION L0000114 VOLUME 480712.059 3774282.850 363.00
LOCATION L0000115 VOLUME 480697.113 3774284.117 363.00
LOCATION L0000116 VOLUME 480682.166 3774285.384 363.00
LOCATION L0000117 VOLUME 480667.220 3774286.650 362.90
LOCATION L0000118 VOLUME 480652.273 3774287.917 362.39
LOCATION L0000119 VOLUME 480637.327 3774289.184 362.00
LOCATION L0000120 VOLUME 480622.381 3774290.450 362.00
LOCATION L0000121 VOLUME 480607.434 3774291.717 362.00
LOCATION L0000122 VOLUME 480592.488 3774292.984 362.00
LOCATION L0000123 VOLUME 480577.541 3774294.250 361.92
LOCATION L0000124 VOLUME 480562.595 3774295.517 361.42
LOCATION L0000125 VOLUME 480547.648 3774296.783 361.00
LOCATION L0000126 VOLUME 480532.702 3774298.050 361.00
LOCATION L0000127 VOLUME 480517.756 3774299.317 360.93

LOCATION L0000128 VOLUME 480502.809 3774300.583 360.43
LOCATION L0000129 VOLUME 480487.863 3774301.850 360.00
LOCATION L0000130 VOLUME 480473.029 3774302.133 360.00
LOCATION L0000131 VOLUME 480458.760 3774297.509 360.00
LOCATION L0000132 VOLUME 480444.491 3774292.884 360.00
LOCATION L0000133 VOLUME 480430.221 3774288.260 360.00
LOCATION L0000134 VOLUME 480415.952 3774283.636 360.00
LOCATION L0000135 VOLUME 480410.776 3774272.399 360.00
LOCATION L0000136 VOLUME 480412.994 3774260.768 360.00
LOCATION L0000137 VOLUME 480426.775 3774266.692 360.00
LOCATION L0000138 VOLUME 480440.555 3774272.617 360.00
LOCATION L0000139 VOLUME 480454.336 3774278.541 360.00
LOCATION L0000140 VOLUME 480468.116 3774284.465 360.02
LOCATION L0000141 VOLUME 480482.496 3774286.692 360.00
LOCATION L0000142 VOLUME 480497.442 3774285.422 360.27
LOCATION L0000143 VOLUME 480512.388 3774284.153 360.77
LOCATION L0000144 VOLUME 480527.334 3774282.883 361.00
LOCATION L0000145 VOLUME 480542.281 3774281.613 361.00
LOCATION L0000146 VOLUME 480557.227 3774280.343 361.24
LOCATION L0000147 VOLUME 480572.173 3774279.074 361.74
LOCATION L0000148 VOLUME 480587.119 3774277.804 362.00
LOCATION L0000149 VOLUME 480602.065 3774276.534 362.00
LOCATION L0000150 VOLUME 480617.011 3774275.265 362.00
LOCATION L0000151 VOLUME 480631.958 3774273.995 362.00
LOCATION L0000152 VOLUME 480646.904 3774272.725 362.23
LOCATION L0000153 VOLUME 480661.850 3774271.456 362.73
LOCATION L0000154 VOLUME 480676.796 3774270.186 363.00
LOCATION L0000155 VOLUME 480691.742 3774268.916 363.00
LOCATION L0000156 VOLUME 480706.688 3774267.646 363.00
LOCATION L0000157 VOLUME 480721.390 3774266.152 363.00
LOCATION L0000158 VOLUME 480721.390 3774251.152 363.00
LOCATION L0000159 VOLUME 480707.946 3774250.725 363.00
LOCATION L0000160 VOLUME 480692.995 3774251.931 362.97
LOCATION L0000161 VOLUME 480678.043 3774253.137 362.92
LOCATION L0000162 VOLUME 480663.092 3774254.344 362.72
LOCATION L0000163 VOLUME 480648.141 3774255.550 362.27
LOCATION L0000164 VOLUME 480633.189 3774256.756 362.00
LOCATION L0000165 VOLUME 480618.238 3774257.963 362.00
LOCATION L0000166 VOLUME 480603.286 3774259.169 362.00
LOCATION L0000167 VOLUME 480588.335 3774260.375 362.00
LOCATION L0000168 VOLUME 480573.383 3774261.582 361.78
LOCATION L0000169 VOLUME 480558.432 3774262.788 361.28
LOCATION L0000170 VOLUME 480543.481 3774263.994 361.00
LOCATION L0000171 VOLUME 480528.529 3774265.201 361.00
LOCATION L0000172 VOLUME 480513.578 3774266.407 360.93
LOCATION L0000173 VOLUME 480498.626 3774267.614 360.73
LOCATION L0000174 VOLUME 480483.675 3774268.820 360.46
LOCATION L0000175 VOLUME 480469.383 3774266.171 360.21
LOCATION L0000176 VOLUME 480455.681 3774260.067 360.00
LOCATION L0000177 VOLUME 480441.978 3774253.964 360.00
LOCATION L0000178 VOLUME 480428.276 3774247.860 360.00

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   LOCATION L0000179     VOLUME   480414.574 3774241.756 360.00
   LOCATION L0000180     VOLUME   480414.430 3774232.680 360.00
   LOCATION L0000181     VOLUME   480429.407 3774231.849 360.00
   LOCATION L0000182     VOLUME   480444.384 3774231.019 360.00
   LOCATION L0000183     VOLUME   480459.361 3774230.188 360.00
   LOCATION L0000184     VOLUME   480474.338 3774229.358 360.48
   LOCATION L0000185     VOLUME   480489.315 3774228.527 360.98
   LOCATION L0000186     VOLUME   480504.292 3774227.697 361.00
   LOCATION L0000187     VOLUME   480519.269 3774226.866 361.00
   LOCATION L0000188     VOLUME   480534.246 3774226.036 361.00
   LOCATION L0000189     VOLUME   480549.223 3774225.206 361.00
   LOCATION L0000190     VOLUME   480564.200 3774224.375 361.48
   LOCATION L0000191     VOLUME   480579.177 3774223.545 361.98
   LOCATION L0000192     VOLUME   480594.154 3774222.714 362.00
   LOCATION L0000193     VOLUME   480609.131 3774221.884 362.00
   LOCATION L0000194     VOLUME   480624.108 3774221.053 362.00
   LOCATION L0000195     VOLUME   480639.085 3774220.223 362.00
   LOCATION L0000196     VOLUME   480654.062 3774219.392 362.00
   LOCATION L0000197     VOLUME   480669.039 3774218.562 362.00
   LOCATION L0000198     VOLUME   480684.016 3774217.731 362.47
   LOCATION L0000199     VOLUME   480698.993 3774216.901 362.97
   LOCATION L0000200     VOLUME   480713.970 3774216.070 363.00
   LOCATION L0000201     VOLUME   480723.213 3774220.665 363.00
   LOCATION L0000202     VOLUME   480721.557 3774235.573 363.00
   LOCATION L0000203     VOLUME   480707.915 3774237.757 363.00
   LOCATION L0000204     VOLUME   480692.935 3774238.519 362.86
   LOCATION L0000205     VOLUME   480677.954 3774239.280 362.59
   LOCATION L0000206     VOLUME   480662.973 3774240.042 362.35
   LOCATION L0000207     VOLUME   480647.993 3774240.804 362.13
   LOCATION L0000208     VOLUME   480633.012 3774241.565 362.00
   LOCATION L0000209     VOLUME   480618.031 3774242.327 362.00
   LOCATION L0000210     VOLUME   480603.051 3774243.089 362.00
   LOCATION L0000211     VOLUME   480588.070 3774243.851 362.00
   LOCATION L0000212     VOLUME   480573.089 3774244.612 361.77
   LOCATION L0000213     VOLUME   480558.109 3774245.374 361.27
   LOCATION L0000214     VOLUME   480543.128 3774246.136 361.00
   LOCATION L0000215     VOLUME   480528.148 3774246.898 361.00
   LOCATION L0000216     VOLUME   480513.167 3774247.659 361.00
   LOCATION L0000217     VOLUME   480498.186 3774248.421 361.00
   LOCATION L0000218     VOLUME   480483.206 3774249.183 360.78
   LOCATION L0000219     VOLUME   480468.353 3774248.372 360.28
   LOCATION L0000220     VOLUME   480453.691 3774245.202 360.00
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Palm Ave n/o 5th
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.220756376
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** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 480744.188, 3774388.624, 363.00, 3.11, 10.23
** 480742.531, 3774137.631, 363.29, 3.11, 10.23
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   LOCATION L0008654     VOLUME   480743.970 3774355.625 363.00
   LOCATION L0008655     VOLUME   480743.825 3774333.625 363.00
   LOCATION L0008656     VOLUME   480743.680 3774311.626 363.00
   LOCATION L0008657     VOLUME   480743.535 3774289.626 363.00
   LOCATION L0008658     VOLUME   480743.389 3774267.627 363.00
   LOCATION L0008659     VOLUME   480743.244 3774245.627 363.00
   LOCATION L0008660     VOLUME   480743.099 3774223.628 363.00
   LOCATION L0008661     VOLUME   480742.954 3774201.628 363.00
   LOCATION L0008662     VOLUME   480742.809 3774179.628 363.00
   LOCATION L0008663     VOLUME   480742.663 3774157.629 363.12
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC W 5th e/o Palm
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.779243624
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 480739.701, 3774137.378, 363.16, 3.11, 10.23
** 481145.571, 3774108.714, 367.97, 3.11, 10.23
** 481623.673, 3774139.671, 373.93, 3.11, 10.23
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   LOCATION L0008574     VOLUME   480772.619 3774135.053 364.00
   LOCATION L0008575     VOLUME   480794.564 3774133.503 364.00
   LOCATION L0008576     VOLUME   480816.509 3774131.953 364.00
   LOCATION L0008577     VOLUME   480838.455 3774130.403 364.12
   LOCATION L0008578     VOLUME   480860.400 3774128.854 364.51
   LOCATION L0008579     VOLUME   480882.345 3774127.304 365.00
   LOCATION L0008580     VOLUME   480904.291 3774125.754 365.00
   LOCATION L0008581     VOLUME   480926.236 3774124.204 365.00
   LOCATION L0008582     VOLUME   480948.181 3774122.654 365.28
   LOCATION L0008583     VOLUME   480970.127 3774121.105 366.00
   LOCATION L0008584     VOLUME   480992.072 3774119.555 366.00
   LOCATION L0008585     VOLUME   481014.017 3774118.005 366.00
   LOCATION L0008586     VOLUME   481035.963 3774116.455 366.20
   LOCATION L0008587     VOLUME   481057.908 3774114.905 366.93
   LOCATION L0008588     VOLUME   481079.853 3774113.355 367.00
   LOCATION L0008589     VOLUME   481101.799 3774111.806 367.00
   LOCATION L0008590     VOLUME   481123.744 3774110.256 367.13
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   LOCATION L0008592     VOLUME   481167.644 3774110.144 368.00
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   LOCATION L0008595     VOLUME   481233.506 3774114.408 368.79
   LOCATION L0008596     VOLUME   481255.460 3774115.829 369.00
   LOCATION L0008597     VOLUME   481277.414 3774117.251 369.00
   LOCATION L0008598     VOLUME   481299.368 3774118.672 369.00
   LOCATION L0008599     VOLUME   481321.322 3774120.094 369.71
   LOCATION L0008600     VOLUME   481343.276 3774121.515 370.00
   LOCATION L0008601     VOLUME   481365.230 3774122.937 370.00
   LOCATION L0008602     VOLUME   481387.184 3774124.358 370.00
   LOCATION L0008603     VOLUME   481409.138 3774125.780 370.64
   LOCATION L0008604     VOLUME   481431.092 3774127.201 371.00
   LOCATION L0008605     VOLUME   481453.046 3774128.623 371.03
   LOCATION L0008606     VOLUME   481475.000 3774130.044 371.17
   LOCATION L0008607     VOLUME   481496.954 3774131.466 371.64
   LOCATION L0008608     VOLUME   481518.908 3774132.887 372.00
   LOCATION L0008609     VOLUME   481540.862 3774134.309 372.00
   LOCATION L0008610     VOLUME   481562.816 3774135.730 372.01
   LOCATION L0008611     VOLUME   481584.770 3774137.152 372.50
   LOCATION L0008612     VOLUME   481606.724 3774138.573 373.21
** End of LINE VOLUME Source ID = SLINE3
** Source Parameters **
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   SRCPARAM L0000004     0.0045454545      3.11      6.98      2.89
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   SRCPARAM L0000006     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000007     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000008     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000009     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000010     0.0045454545      3.11      6.98      2.89
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   SRCPARAM L0000016     0.0045454545      3.11      6.98      2.89
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   SRCPARAM L0000023     0.0045454545      3.11      6.98      2.89
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   SRCPARAM L0000026     0.0045454545      3.11      6.98      2.89
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SRCPARAM L0000141     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000142     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000143     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000144     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000145     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000146     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000147     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000148     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000149     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000150     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000151     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000152     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000153     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000154     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000155     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000156     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000157     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000158     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000159     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000160     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000161     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000162     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000163     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000164     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000165     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000166     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000167     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000168     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000169     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000170     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000171     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000172     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000173     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000174     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000175     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000176     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000177     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000178     0.0045454545      3.11      6.98      2.89
SRCPARAM L0000179     0.0045454545      3.11      6.98      2.89
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   SRCPARAM L0000180     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000181     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000182     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000183     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000184     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000185     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000186     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000187     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000188     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000189     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000190     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000191     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000192     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000193     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000194     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000195     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000196     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000197     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000198     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000199     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000200     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000201     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000202     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000203     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000204     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000205     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000206     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000207     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000208     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000209     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000210     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000211     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000212     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000213     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000214     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000215     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000216     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000217     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000218     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000219     0.0045454545      3.11      6.98      2.89
   SRCPARAM L0000220     0.0045454545      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0008653     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008654     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008655     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008656     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008657     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008658     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008659     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008660     0.0200687615      3.11     10.23      2.89
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   SRCPARAM L0008661     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008662     0.0200687615      3.11     10.23      2.89
   SRCPARAM L0008663     0.0200687615      3.11     10.23      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0008573     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008574     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008575     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008576     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008577     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008578     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008579     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008580     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008581     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008582     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008583     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008584     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008585     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008586     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008587     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008588     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008589     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008590     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008591     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008592     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008593     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008594     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008595     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008596     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008597     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008598     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008599     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008600     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008601     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008602     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008603     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008604     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008605     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008606     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008607     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008608     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008609     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008610     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008611     0.0194810906      3.11     10.23      2.89
   SRCPARAM L0008612     0.0194810906      3.11     10.23      2.89
** ------------------------------------------------------------------
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "CSTN"
   EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000001     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000002     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000003     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000003     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000004     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000004     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000004     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000005     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000006     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000007     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000008     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000009     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000010     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000011     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000011     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000012     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000013     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000013     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000014     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000015     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000016     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000017     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000018     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000019     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000020     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000021     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000022     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000023     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000024     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000025     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000026     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000027     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000028     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000029     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000030     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000031     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000032     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000033     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000034     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000035     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000036     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000037     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000038     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000039     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000040     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000041     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000042     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000043     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000044     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000045     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000046     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000047     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000049     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000050     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000051     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000053     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000055     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000056     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000057     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000058     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000060     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000066     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000072     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000073     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000075     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000076     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000079     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000080     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000082     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000082     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000082     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000083     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000083     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000084     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000085     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000085     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000085     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000086     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000087     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000087     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000087     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000088     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000089     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000090     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000091     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000092     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000093     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000093     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000093     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000094     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000094     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000095     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000095     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000096     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000096     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000096     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000097     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000097     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000097     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000098     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000098     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000099     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000099     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000099     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000100     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000100     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000100     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000101     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000101     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000101     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000102     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000102     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000102     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000103     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000103     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000103     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000104     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000104     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000104     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000105     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000105     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000105     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000106     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000106     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000106     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000107     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000107     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000107     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000108     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000108     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000108     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000109     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000109     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000109     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000110     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000110     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000110     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000111     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000111     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000111     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000112     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000112     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000112     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000113     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000113     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000113     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000114     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000117     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000118     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000118     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000118     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000119     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000119     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000120     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000137     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000148     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000154     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000156     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000157     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000157     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000157     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000158     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000159     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000160     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000161     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000162     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000165     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000168     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000168     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000169     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000169     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000169     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000170     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000170     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000170     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000171     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000172     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000172     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000172     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000173     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000173     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000174     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000177     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000178     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000178     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000179     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000179     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000179     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000180     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000180     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT L0000181     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000181     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000182     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000182     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000182     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000183     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000184     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000185     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000185     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000186     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000186     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000186     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000187     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
EMISFACT L0000187     HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT L0000187     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000188     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000188     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000189     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000205     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0
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EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000003     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000004     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000076     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000076     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000076     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000078     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000078     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000078     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000079     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000082     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000082     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000083     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000083     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000084     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000086     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000086     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000087     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000093     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000094     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000094     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000096     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000098     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000099     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000102     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000103     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000103     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000103     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000104     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000105     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000171     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000171     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000172     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000172     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000172     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000173     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000173     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000173     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000174     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000176     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000176     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000177     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000177     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000178     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000178     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000179     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000179     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000179     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000180     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000181     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000187     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000188     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000188     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000188     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000189     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000206     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000209     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000209     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000209     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000218     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000220     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000013     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000078     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000081     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000082     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000082     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000082     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000083     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000083     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000086     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000087     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000087     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000087     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000105     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000165     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000173     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000076     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000078     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000079     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000079     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000079     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000080     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000080     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000081     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000081     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000081     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000088     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000156     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000156     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000157     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000076     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000089     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000090     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000107     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000158     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000072     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000073     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000074     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000077     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000078     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000078     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000081     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000107     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000107     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000108     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000109     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000110     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000111     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000111     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000112     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000113     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000113     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000124     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000141     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000141     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000142     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000210     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000210     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000211     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000211     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000211     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000212     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000212     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000212     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000213     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000213     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000213     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000214     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000214     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000214     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000215     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000215     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000216     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000217     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000217     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000217     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000218     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000219     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000219     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000009     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000075     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000108     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000109     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000112     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000125     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000125     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000126     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000129     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000143     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000205     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0008608     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0008611     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0008598     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0008599     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0008586     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008586     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008587     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008587     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008587     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008588     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008588     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008588     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008589     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008589     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008589     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008590     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008590     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008590     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008591     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008591     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008591     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008592     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008592     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008592     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008593     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008593     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008593     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008594     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008594     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008594     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008595     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008595     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008595     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008596     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008596     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008596     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008597     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008597     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008597     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008598     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008598     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008598     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008599     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008599     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008599     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008600     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008600     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008600     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008601     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008601     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008601     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008602     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008602     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008602     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008603     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0008603     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008603     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008604     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008604     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008604     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008605     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008605     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008605     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008606     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008606     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008606     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008607     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008607     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008607     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008608     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008608     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008608     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008609     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008609     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008609     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008610     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008610     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008610     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008611     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008611     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008611     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008612     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008612     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0008612     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP Onsite   L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP Onsite   L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
SRCGROUP Onsite   L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
SRCGROUP Onsite   L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
SRCGROUP Onsite   L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP Onsite   L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP Onsite   L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
SRCGROUP Onsite   L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
SRCGROUP Onsite   L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
SRCGROUP Onsite   L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
SRCGROUP Onsite   L0000061 L0000062 L0000063 L0000064 L0000065 L0000066
SRCGROUP Onsite   L0000067 L0000068 L0000069 L0000070 L0000071 L0000072
SRCGROUP Onsite   L0000073 L0000074 L0000075 L0000076 L0000077 L0000078
SRCGROUP Onsite   L0000079 L0000080 L0000081 L0000082 L0000083 L0000084
SRCGROUP Onsite   L0000085 L0000086 L0000087 L0000088 L0000089 L0000090
SRCGROUP Onsite   L0000091 L0000092 L0000093 L0000094 L0000095 L0000096
SRCGROUP Onsite   L0000097 L0000098 L0000099 L0000100 L0000101 L0000102
SRCGROUP Onsite   L0000103 L0000104 L0000105 L0000106 L0000107 L0000108
SRCGROUP Onsite   L0000109 L0000110 L0000111 L0000112 L0000113 L0000114
SRCGROUP Onsite   L0000115 L0000116 L0000117 L0000118 L0000119 L0000120
SRCGROUP Onsite   L0000121 L0000122 L0000123 L0000124 L0000125 L0000126
SRCGROUP Onsite   L0000127 L0000128 L0000129 L0000130 L0000131 L0000132
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   SRCGROUP Onsite   L0000133 L0000134 L0000135 L0000136 L0000137 L0000138
   SRCGROUP Onsite   L0000139 L0000140 L0000141 L0000142 L0000143 L0000144
   SRCGROUP Onsite   L0000145 L0000146 L0000147 L0000148 L0000149 L0000150
   SRCGROUP Onsite   L0000151 L0000152 L0000153 L0000154 L0000155 L0000156
   SRCGROUP Onsite   L0000157 L0000158 L0000159 L0000160 L0000161 L0000162
   SRCGROUP Onsite   L0000163 L0000164 L0000165 L0000166 L0000167 L0000168
   SRCGROUP Onsite   L0000169 L0000170 L0000171 L0000172 L0000173 L0000174
   SRCGROUP Onsite   L0000175 L0000176 L0000177 L0000178 L0000179 L0000180
   SRCGROUP Onsite   L0000181 L0000182 L0000183 L0000184 L0000185 L0000186
   SRCGROUP Onsite   L0000187 L0000188 L0000189 L0000190 L0000191 L0000192
   SRCGROUP Onsite   L0000193 L0000194 L0000195 L0000196 L0000197 L0000198
   SRCGROUP Onsite   L0000199 L0000200 L0000201 L0000202 L0000203 L0000204
   SRCGROUP Onsite   L0000205 L0000206 L0000207 L0000208 L0000209 L0000210
   SRCGROUP Onsite   L0000211 L0000212 L0000213 L0000214 L0000215 L0000216
   SRCGROUP Onsite   L0000217 L0000218 L0000219 L0000220
   SRCGROUP Offsite  L0008653 L0008654 L0008655 L0008656 L0008657 L0008658
   SRCGROUP Offsite  L0008659 L0008660 L0008661 L0008662 L0008663 L0008573
   SRCGROUP Offsite  L0008574 L0008575 L0008576 L0008577 L0008578 L0008579
   SRCGROUP Offsite  L0008580 L0008581 L0008582 L0008583 L0008584 L0008585
   SRCGROUP Offsite  L0008586 L0008587 L0008588 L0008589 L0008590 L0008591
   SRCGROUP Offsite  L0008592 L0008593 L0008594 L0008595 L0008596 L0008597
   SRCGROUP Offsite  L0008598 L0008599 L0008600 L0008601 L0008602 L0008603
   SRCGROUP Offsite  L0008604 L0008605 L0008606 L0008607 L0008608 L0008609
   SRCGROUP Offsite  L0008610 L0008611 L0008612
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED Highland_Meines&Palm_CSTN.rou
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE RDLD_v9.SFC
   PROFFILE RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 481.0 METERS
ME FINISHED
**
****************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST HIGHLAND_MEINES&PALM_CSTN.AD\01H1GALL.PLT 31
   PLOTFILE 1 Onsite 1ST HIGHLAND_MEINES&PALM_CSTN.AD\01H1G001.PLT 32
   PLOTFILE 1 Offsite 1ST HIGHLAND_MEINES&PALM_CSTN.AD\01H1G002.PLT 33
   PLOTFILE PERIOD ALL HIGHLAND_MEINES&PALM_CSTN.AD\PE00GALL.PLT 34
   PLOTFILE PERIOD Onsite HIGHLAND_MEINES&PALM_CSTN.AD\PE00G001.PLT 35
   PLOTFILE PERIOD Offsite HIGHLAND_MEINES&PALM_CSTN.AD\PE00G002.PLT 36
   SUMMFILE Highland_Meines&Palm_CSTN.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    6423       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    6423       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32

                                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
 ***
```

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 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   271 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    271 Source(s);       3 Source Group(s); and     775
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    271 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216
```

```
 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   481.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      4.1 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Highland_Meines&Palm_CSTN.err

 **File for Summary of Results:   Highland_Meines&Palm_CSTN.sum

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:12:32

                                   PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
```

```
 L0000001         0   0.45455E-02  480421.0 3774376.1   359.7     3.11     6.98
2.89     YES   HRDOW7
 L0000002         0   0.45455E-02  480435.5 3774379.9   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000003         0   0.45455E-02  480450.0 3774383.8   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000004         0   0.45455E-02  480464.5 3774387.7   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000005         0   0.45455E-02  480479.4 3774388.2   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000006         0   0.45455E-02  480494.4 3774387.8   360.2     3.11     6.98
2.89     YES   HRDOW7
 L0000007         0   0.45455E-02  480509.4 3774387.3   360.7     3.11     6.98
2.89     YES   HRDOW7
 L0000008         0   0.45455E-02  480524.4 3774386.9   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000009         0   0.45455E-02  480539.4 3774386.5   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000010         0   0.45455E-02  480554.4 3774386.1   361.2     3.11     6.98
2.89     YES   HRDOW7
 L0000011         0   0.45455E-02  480569.3 3774385.7   361.7     3.11     6.98
2.89     YES   HRDOW7
 L0000012         0   0.45455E-02  480584.3 3774385.3   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000013         0   0.45455E-02  480599.3 3774384.9   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000014         0   0.45455E-02  480614.3 3774384.5   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000015         0   0.45455E-02  480629.3 3774384.1   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000016         0   0.45455E-02  480644.3 3774383.6   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000017         0   0.45455E-02  480659.3 3774383.2   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000018         0   0.45455E-02  480674.3 3774382.8   362.2     3.11     6.98
2.89     YES   HRDOW7
 L0000019         0   0.45455E-02  480689.3 3774382.4   362.7     3.11     6.98
2.89     YES   HRDOW7
 L0000020         0   0.45455E-02  480704.3 3774382.0   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000021         0   0.45455E-02  480719.3 3774381.6   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000022         0   0.45455E-02  480729.5 3774376.8   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000023         0   0.45455E-02  480727.0 3774363.4   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000024         0   0.45455E-02  480712.1 3774364.1   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000025         0   0.45455E-02  480697.1 3774364.8   362.9     3.11     6.98
2.89     YES   HRDOW7
 L0000026         0   0.45455E-02  480682.1 3774365.5   362.4     3.11     6.98
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2.89     YES   HRDOW7
 L0000027         0   0.45455E-02  480667.1 3774366.2   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000028         0   0.45455E-02  480652.1 3774366.9   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000029         0   0.45455E-02  480637.1 3774367.6   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000030         0   0.45455E-02  480622.2 3774368.3   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000031         0   0.45455E-02  480607.2 3774369.0   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000032         0   0.45455E-02  480592.2 3774369.7   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000033         0   0.45455E-02  480577.2 3774370.4   361.9     3.11     6.98
2.89     YES   HRDOW7
 L0000034         0   0.45455E-02  480562.2 3774371.1   361.4     3.11     6.98
2.89     YES   HRDOW7
 L0000035         0   0.45455E-02  480547.2 3774371.8   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000036         0   0.45455E-02  480532.3 3774372.5   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000037         0   0.45455E-02  480517.3 3774373.2   360.9     3.11     6.98
2.89     YES   HRDOW7
 L0000038         0   0.45455E-02  480502.3 3774373.9   360.4     3.11     6.98
2.89     YES   HRDOW7
 L0000039         0   0.45455E-02  480487.3 3774374.5   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000040         0   0.45455E-02  480472.3 3774375.2   360.0     3.11     6.98
2.89     YES   HRDOW7
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000041         0   0.45455E-02  480457.7 3774372.0   360.0     3.11     6.98
2.89     YES   HRDOW7
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 L0000042         0   0.45455E-02  480443.2 3774368.3   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000043         0   0.45455E-02  480428.7 3774364.5   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000044         0   0.45455E-02  480414.2 3774360.8   359.5     3.11     6.98
2.89     YES   HRDOW7
 L0000045         0   0.45455E-02  480412.2 3774347.0   359.4     3.11     6.98
2.89     YES   HRDOW7
 L0000046         0   0.45455E-02  480417.3 3774339.3   359.7     3.11     6.98
2.89     YES   HRDOW7
 L0000047         0   0.45455E-02  480431.6 3774344.0   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000048         0   0.45455E-02  480445.8 3774348.6   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000049         0   0.45455E-02  480460.1 3774353.2   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000050         0   0.45455E-02  480474.5 3774357.3   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000051         0   0.45455E-02  480489.4 3774356.3   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000052         0   0.45455E-02  480504.4 3774355.3   360.5     3.11     6.98
2.89     YES   HRDOW7
 L0000053         0   0.45455E-02  480519.4 3774354.3   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000054         0   0.45455E-02  480534.3 3774353.3   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000055         0   0.45455E-02  480549.3 3774352.3   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000056         0   0.45455E-02  480564.3 3774351.3   361.5     3.11     6.98
2.89     YES   HRDOW7
 L0000057         0   0.45455E-02  480579.2 3774350.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000058         0   0.45455E-02  480594.2 3774349.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000059         0   0.45455E-02  480609.2 3774348.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000060         0   0.45455E-02  480624.1 3774347.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000061         0   0.45455E-02  480639.1 3774346.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000062         0   0.45455E-02  480654.1 3774345.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000063         0   0.45455E-02  480669.0 3774344.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000064         0   0.45455E-02  480684.0 3774343.4   362.5     3.11     6.98
2.89     YES   HRDOW7
 L0000065         0   0.45455E-02  480699.0 3774342.4   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000066         0   0.45455E-02  480713.9 3774341.5   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000067         0   0.45455E-02  480726.5 3774338.5   363.0     3.11     6.98
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000081	0	0.45455E-02	480528.2	3774336.8	361.0	3.11	6.98	2.89	YES	HRDOW7
L0000082	0	0.45455E-02	480513.3	3774337.7	360.8	3.11	6.98	2.89	YES	HRDOW7

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 L0000083         0   0.45455E-02  480498.3 3774338.5   360.3     3.11     6.98
2.89     YES   HRDOW7
 L0000084         0   0.45455E-02  480483.3 3774339.4   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000085         0   0.45455E-02  480468.5 3774338.9   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000086         0   0.45455E-02  480454.1 3774334.7   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000087         0   0.45455E-02  480439.7 3774330.6   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000088         0   0.45455E-02  480425.3 3774326.4   359.9     3.11     6.98
2.89     YES   HRDOW7
 L0000089         0   0.45455E-02  480410.8 3774322.2   359.9     3.11     6.98
2.89     YES   HRDOW7
 L0000090         0   0.45455E-02  480409.8 3774307.8   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000091         0   0.45455E-02  480415.8 3774301.5   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000092         0   0.45455E-02  480429.9 3774306.4   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000093         0   0.45455E-02  480444.1 3774311.3   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000094         0   0.45455E-02  480458.3 3774316.2   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000095         0   0.45455E-02  480472.5 3774320.8   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000096         0   0.45455E-02  480487.5 3774320.0   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000097         0   0.45455E-02  480502.5 3774319.1   360.4     3.11     6.98
2.89     YES   HRDOW7
 L0000098         0   0.45455E-02  480517.4 3774318.2   360.9     3.11     6.98
2.89     YES   HRDOW7
 L0000099         0   0.45455E-02  480532.4 3774317.4   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000100         0   0.45455E-02  480547.4 3774316.5   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000101         0   0.45455E-02  480562.4 3774315.7   361.4     3.11     6.98
2.89     YES   HRDOW7
 L0000102         0   0.45455E-02  480577.3 3774314.8   361.9     3.11     6.98
2.89     YES   HRDOW7
 L0000103         0   0.45455E-02  480592.3 3774313.9   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000104         0   0.45455E-02  480607.3 3774313.1   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000105         0   0.45455E-02  480622.3 3774312.2   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000106         0   0.45455E-02  480637.2 3774311.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000107         0   0.45455E-02  480652.2 3774310.5   362.1     3.11     6.98
2.89     YES   HRDOW7
 L0000108         0   0.45455E-02  480667.2 3774309.6   362.2     3.11     6.98
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2.89     YES   HRDOW7
 L0000109         0   0.45455E-02  480682.2 3774308.8   362.6     3.11     6.98
2.89     YES   HRDOW7
 L0000110         0   0.45455E-02  480697.1 3774307.9   362.9     3.11     6.98
2.89     YES   HRDOW7
 L0000111         0   0.45455E-02  480712.1 3774307.1   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000112         0   0.45455E-02  480722.1 3774301.4   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000113         0   0.45455E-02  480722.5 3774286.4   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000114         0   0.45455E-02  480712.1 3774282.8   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000115         0   0.45455E-02  480697.1 3774284.1   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000116         0   0.45455E-02  480682.2 3774285.4   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000117         0   0.45455E-02  480667.2 3774286.6   362.9     3.11     6.98
2.89     YES   HRDOW7
 L0000118         0   0.45455E-02  480652.3 3774287.9   362.4     3.11     6.98
2.89     YES   HRDOW7
 L0000119         0   0.45455E-02  480637.3 3774289.2   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000120         0   0.45455E-02  480622.4 3774290.4   362.0     3.11     6.98
2.89     YES   HRDOW7
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000121         0   0.45455E-02  480607.4 3774291.7   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000122         0   0.45455E-02  480592.5 3774293.0   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000123         0   0.45455E-02  480577.5 3774294.2   361.9     3.11     6.98
2.89     YES   HRDOW7
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 L0000124         0   0.45455E-02  480562.6 3774295.5   361.4     3.11     6.98
2.89     YES   HRDOW7
 L0000125         0   0.45455E-02  480547.6 3774296.8   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000126         0   0.45455E-02  480532.7 3774298.0   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000127         0   0.45455E-02  480517.8 3774299.3   360.9     3.11     6.98
2.89     YES   HRDOW7
 L0000128         0   0.45455E-02  480502.8 3774300.6   360.4     3.11     6.98
2.89     YES   HRDOW7
 L0000129         0   0.45455E-02  480487.9 3774301.8   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000130         0   0.45455E-02  480473.0 3774302.1   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000131         0   0.45455E-02  480458.8 3774297.5   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000132         0   0.45455E-02  480444.5 3774292.9   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000133         0   0.45455E-02  480430.2 3774288.3   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000134         0   0.45455E-02  480416.0 3774283.6   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000135         0   0.45455E-02  480410.8 3774272.4   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000136         0   0.45455E-02  480413.0 3774260.8   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000137         0   0.45455E-02  480426.8 3774266.7   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000138         0   0.45455E-02  480440.6 3774272.6   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000139         0   0.45455E-02  480454.3 3774278.5   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000140         0   0.45455E-02  480468.1 3774284.5   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000141         0   0.45455E-02  480482.5 3774286.7   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000142         0   0.45455E-02  480497.4 3774285.4   360.3     3.11     6.98
2.89     YES   HRDOW7
 L0000143         0   0.45455E-02  480512.4 3774284.2   360.8     3.11     6.98
2.89     YES   HRDOW7
 L0000144         0   0.45455E-02  480527.3 3774282.9   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000145         0   0.45455E-02  480542.3 3774281.6   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000146         0   0.45455E-02  480557.2 3774280.3   361.2     3.11     6.98
2.89     YES   HRDOW7
 L0000147         0   0.45455E-02  480572.2 3774279.1   361.7     3.11     6.98
2.89     YES   HRDOW7
 L0000148         0   0.45455E-02  480587.1 3774277.8   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000149         0   0.45455E-02  480602.1 3774276.5   362.0     3.11     6.98
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2.89 YES HRDOW7
L0000150 0 0.45455E-02 480617.0 3774275.3 362.0 3.11 6.98
2.89 YES HRDOW7
L0000151 0 0.45455E-02 480632.0 3774274.0 362.0 3.11 6.98
2.89 YES HRDOW7
L0000152 0 0.45455E-02 480646.9 3774272.7 362.2 3.11 6.98
2.89 YES HRDOW7
L0000153 0 0.45455E-02 480661.8 3774271.5 362.7 3.11 6.98
2.89 YES HRDOW7
L0000154 0 0.45455E-02 480676.8 3774270.2 363.0 3.11 6.98
2.89 YES HRDOW7
L0000155 0 0.45455E-02 480691.7 3774268.9 363.0 3.11 6.98
2.89 YES HRDOW7
L0000156 0 0.45455E-02 480706.7 3774267.6 363.0 3.11 6.98
2.89 YES HRDOW7
L0000157 0 0.45455E-02 480721.4 3774266.2 363.0 3.11 6.98
2.89 YES HRDOW7
L0000158 0 0.45455E-02 480721.4 3774251.2 363.0 3.11 6.98
2.89 YES HRDOW7
L0000159 0 0.45455E-02 480707.9 3774250.7 363.0 3.11 6.98
2.89 YES HRDOW7
L0000160 0 0.45455E-02 480693.0 3774251.9 363.0 3.11 6.98
2.89 YES HRDOW7

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000161	0	0.45455E-02	480678.0	3774253.1	362.9	3.11	6.98	2.89	YES	HRDOW7
L0000162	0	0.45455E-02	480663.1	3774254.3	362.7	3.11	6.98	2.89	YES	HRDOW7
L0000163	0	0.45455E-02	480648.1	3774255.5	362.3	3.11	6.98	2.89	YES	HRDOW7
L0000164	0	0.45455E-02	480633.2	3774256.8	362.0	3.11	6.98	2.89	YES	HRDOW7

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 L0000165         0   0.45455E-02  480618.2 3774258.0   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000166         0   0.45455E-02  480603.3 3774259.2   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000167         0   0.45455E-02  480588.3 3774260.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000168         0   0.45455E-02  480573.4 3774261.6   361.8     3.11     6.98
2.89     YES   HRDOW7
 L0000169         0   0.45455E-02  480558.4 3774262.8   361.3     3.11     6.98
2.89     YES   HRDOW7
 L0000170         0   0.45455E-02  480543.5 3774264.0   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000171         0   0.45455E-02  480528.5 3774265.2   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000172         0   0.45455E-02  480513.6 3774266.4   360.9     3.11     6.98
2.89     YES   HRDOW7
 L0000173         0   0.45455E-02  480498.6 3774267.6   360.7     3.11     6.98
2.89     YES   HRDOW7
 L0000174         0   0.45455E-02  480483.7 3774268.8   360.5     3.11     6.98
2.89     YES   HRDOW7
 L0000175         0   0.45455E-02  480469.4 3774266.2   360.2     3.11     6.98
2.89     YES   HRDOW7
 L0000176         0   0.45455E-02  480455.7 3774260.1   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000177         0   0.45455E-02  480442.0 3774254.0   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000178         0   0.45455E-02  480428.3 3774247.9   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000179         0   0.45455E-02  480414.6 3774241.8   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000180         0   0.45455E-02  480414.4 3774232.7   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000181         0   0.45455E-02  480429.4 3774231.8   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000182         0   0.45455E-02  480444.4 3774231.0   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000183         0   0.45455E-02  480459.4 3774230.2   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0000184         0   0.45455E-02  480474.3 3774229.4   360.5     3.11     6.98
2.89     YES   HRDOW7
 L0000185         0   0.45455E-02  480489.3 3774228.5   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000186         0   0.45455E-02  480504.3 3774227.7   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000187         0   0.45455E-02  480519.3 3774226.9   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000188         0   0.45455E-02  480534.2 3774226.0   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000189         0   0.45455E-02  480549.2 3774225.2   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000190         0   0.45455E-02  480564.2 3774224.4   361.5     3.11     6.98
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2.89     YES   HRDOW7
 L0000191         0   0.45455E-02  480579.2 3774223.5   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000192         0   0.45455E-02  480594.2 3774222.7   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000193         0   0.45455E-02  480609.1 3774221.9   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000194         0   0.45455E-02  480624.1 3774221.1   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000195         0   0.45455E-02  480639.1 3774220.2   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000196         0   0.45455E-02  480654.1 3774219.4   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000197         0   0.45455E-02  480669.0 3774218.6   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000198         0   0.45455E-02  480684.0 3774217.7   362.5     3.11     6.98
2.89     YES   HRDOW7
 L0000199         0   0.45455E-02  480699.0 3774216.9   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000200         0   0.45455E-02  480714.0 3774216.1   363.0     3.11     6.98
2.89     YES   HRDOW7
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0000201         0   0.45455E-02  480723.2 3774220.7   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000202         0   0.45455E-02  480721.6 3774235.6   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000203         0   0.45455E-02  480707.9 3774237.8   363.0     3.11     6.98
2.89     YES   HRDOW7
 L0000204         0   0.45455E-02  480692.9 3774238.5   362.9     3.11     6.98
2.89     YES   HRDOW7
 L0000205         0   0.45455E-02  480678.0 3774239.3   362.6     3.11     6.98
2.89     YES   HRDOW7
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 L0000206         0   0.45455E-02  480663.0 3774240.0   362.4     3.11     6.98
2.89     YES   HRDOW7
 L0000207         0   0.45455E-02  480648.0 3774240.8   362.1     3.11     6.98
2.89     YES   HRDOW7
 L0000208         0   0.45455E-02  480633.0 3774241.6   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000209         0   0.45455E-02  480618.0 3774242.3   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000210         0   0.45455E-02  480603.1 3774243.1   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000211         0   0.45455E-02  480588.1 3774243.9   362.0     3.11     6.98
2.89     YES   HRDOW7
 L0000212         0   0.45455E-02  480573.1 3774244.6   361.8     3.11     6.98
2.89     YES   HRDOW7
 L0000213         0   0.45455E-02  480558.1 3774245.4   361.3     3.11     6.98
2.89     YES   HRDOW7
 L0000214         0   0.45455E-02  480543.1 3774246.1   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000215         0   0.45455E-02  480528.1 3774246.9   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000216         0   0.45455E-02  480513.2 3774247.7   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000217         0   0.45455E-02  480498.2 3774248.4   361.0     3.11     6.98
2.89     YES   HRDOW7
 L0000218         0   0.45455E-02  480483.2 3774249.2   360.8     3.11     6.98
2.89     YES   HRDOW7
 L0000219         0   0.45455E-02  480468.4 3774248.4   360.3     3.11     6.98
2.89     YES   HRDOW7
 L0000220         0   0.45455E-02  480453.7 3774245.2   360.0     3.11     6.98
2.89     YES   HRDOW7
 L0008653         0   0.20069E-01  480744.1 3774377.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008654         0   0.20069E-01  480744.0 3774355.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008655         0   0.20069E-01  480743.8 3774333.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008656         0   0.20069E-01  480743.7 3774311.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008657         0   0.20069E-01  480743.5 3774289.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008658         0   0.20069E-01  480743.4 3774267.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008659         0   0.20069E-01  480743.2 3774245.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008660         0   0.20069E-01  480743.1 3774223.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008661         0   0.20069E-01  480743.0 3774201.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008662         0   0.20069E-01  480742.8 3774179.6   363.0     3.11    10.23
2.89     YES   HRDOW7
 L0008663         0   0.20069E-01  480742.7 3774157.6   363.1     3.11    10.23
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2.89 YES HRDOW7
L0008573 0 0.19481E-01 480750.7 3774136.6 363.7 3.11 10.23
2.89 YES HRDOW7
L0008574 0 0.19481E-01 480772.6 3774135.1 364.0 3.11 10.23
2.89 YES HRDOW7
L0008575 0 0.19481E-01 480794.6 3774133.5 364.0 3.11 10.23
2.89 YES HRDOW7
L0008576 0 0.19481E-01 480816.5 3774132.0 364.0 3.11 10.23
2.89 YES HRDOW7
L0008577 0 0.19481E-01 480838.5 3774130.4 364.1 3.11 10.23
2.89 YES HRDOW7
L0008578 0 0.19481E-01 480860.4 3774128.9 364.5 3.11 10.23
2.89 YES HRDOW7
L0008579 0 0.19481E-01 480882.3 3774127.3 365.0 3.11 10.23
2.89 YES HRDOW7
L0008580 0 0.19481E-01 480904.3 3774125.8 365.0 3.11 10.23
2.89 YES HRDOW7
L0008581 0 0.19481E-01 480926.2 3774124.2 365.0 3.11 10.23
2.89 YES HRDOW7

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0008582	0	0.19481E-01	480948.2	3774122.7	365.3	3.11	10.23	2.89	YES	HRDOW7
L0008583	0	0.19481E-01	480970.1	3774121.1	366.0	3.11	10.23	2.89	YES	HRDOW7
L0008584	0	0.19481E-01	480992.1	3774119.6	366.0	3.11	10.23	2.89	YES	HRDOW7
L0008585	0	0.19481E-01	481014.0	3774118.0	366.0	3.11	10.23	2.89	YES	HRDOW7
L0008586	0	0.19481E-01	481036.0	3774116.5	366.2	3.11	10.23	2.89	YES	HRDOW7
L0008587	0	0.19481E-01	481057.9	3774114.9	366.9	3.11	10.23	2.89	YES	HRDOW7

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 L0008588         0   0.19481E-01  481079.9 3774113.4   367.0     3.11    10.23
2.89     YES   HRDOW7
 L0008589         0   0.19481E-01  481101.8 3774111.8   367.0     3.11    10.23
2.89     YES   HRDOW7
 L0008590         0   0.19481E-01  481123.7 3774110.3   367.1     3.11    10.23
2.89     YES   HRDOW7
 L0008591         0   0.19481E-01  481145.7 3774108.7   367.9     3.11    10.23
2.89     YES   HRDOW7
 L0008592         0   0.19481E-01  481167.6 3774110.1   368.0     3.11    10.23
2.89     YES   HRDOW7
 L0008593         0   0.19481E-01  481189.6 3774111.6   368.0     3.11    10.23
2.89     YES   HRDOW7
 L0008594         0   0.19481E-01  481211.6 3774113.0   368.1     3.11    10.23
2.89     YES   HRDOW7
 L0008595         0   0.19481E-01  481233.5 3774114.4   368.8     3.11    10.23
2.89     YES   HRDOW7
 L0008596         0   0.19481E-01  481255.5 3774115.8   369.0     3.11    10.23
2.89     YES   HRDOW7
 L0008597         0   0.19481E-01  481277.4 3774117.3   369.0     3.11    10.23
2.89     YES   HRDOW7
 L0008598         0   0.19481E-01  481299.4 3774118.7   369.0     3.11    10.23
2.89     YES   HRDOW7
 L0008599         0   0.19481E-01  481321.3 3774120.1   369.7     3.11    10.23
2.89     YES   HRDOW7
 L0008600         0   0.19481E-01  481343.3 3774121.5   370.0     3.11    10.23
2.89     YES   HRDOW7
 L0008601         0   0.19481E-01  481365.2 3774122.9   370.0     3.11    10.23
2.89     YES   HRDOW7
 L0008602         0   0.19481E-01  481387.2 3774124.4   370.0     3.11    10.23
2.89     YES   HRDOW7
 L0008603         0   0.19481E-01  481409.1 3774125.8   370.6     3.11    10.23
2.89     YES   HRDOW7
 L0008604         0   0.19481E-01  481431.1 3774127.2   371.0     3.11    10.23
2.89     YES   HRDOW7
 L0008605         0   0.19481E-01  481453.0 3774128.6   371.0     3.11    10.23
2.89     YES   HRDOW7
 L0008606         0   0.19481E-01  481475.0 3774130.0   371.2     3.11    10.23
2.89     YES   HRDOW7
 L0008607         0   0.19481E-01  481497.0 3774131.5   371.6     3.11    10.23
2.89     YES   HRDOW7
 L0008608         0   0.19481E-01  481518.9 3774132.9   372.0     3.11    10.23
2.89     YES   HRDOW7
 L0008609         0   0.19481E-01  481540.9 3774134.3   372.0     3.11    10.23
2.89     YES   HRDOW7
 L0008610         0   0.19481E-01  481562.8 3774135.7   372.0     3.11    10.23
2.89     YES   HRDOW7
 L0008611         0   0.19481E-01  481584.8 3774137.2   372.5     3.11    10.23
2.89     YES   HRDOW7
 L0008612         0   0.19481E-01  481606.7 3774138.6   373.2     3.11    10.23
2.89     YES   HRDOW7
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ONSITE	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 ,

L0000102 , L0000103 , L0000104 ,

L0000105 , L0000106 , L0000107 , L0000108 , L0000109 ,
L0000110 , L0000111 , L0000112 ,

L0000113 , L0000114 , L0000115 , L0000116 , L0000117 ,
L0000118 , L0000119 , L0000120 ,

L0000121 , L0000122 , L0000123 , L0000124 , L0000125 ,
L0000126 , L0000127 , L0000128 ,

L0000129 , L0000130 , L0000131 , L0000132 , L0000133 ,
L0000134 , L0000135 , L0000136 ,

L0000137 , L0000138 , L0000139 , L0000140 , L0000141 ,
L0000142 , L0000143 , L0000144 ,

L0000145 , L0000146 , L0000147 , L0000148 , L0000149 ,
L0000150 , L0000151 , L0000152 ,

L0000153 , L0000154 , L0000155 , L0000156 , L0000157 ,
L0000158 , L0000159 , L0000160 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000161 , L0000162 , L0000163 , L0000164 , L0000165 ,
L0000166 , L0000167 , L0000168 ,

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L0000174 , L0000175 , L0000176 ,

L0000177 , L0000178 , L0000179 , L0000180 , L0000181 ,
L0000182 , L0000183 , L0000184 ,

L0000185 , L0000186 , L0000187 , L0000188 , L0000189 ,
L0000190 , L0000191 , L0000192 ,

L0000193 , L0000194 , L0000195 , L0000196 , L0000197 ,
L0000198 , L0000199 , L0000200 ,

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L0000206    , L0000207    , L0000208    ,

             L0000209    , L0000210    , L0000211    , L0000212    , L0000213    ,
L0000214    , L0000215    , L0000216    ,

             L0000217    , L0000218    , L0000219    , L0000220    ,

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L0008658    , L0008659    , L0008660    ,

             L0008661    , L0008662    , L0008663    , L0008573    , L0008574    ,
L0008575    , L0008576    , L0008577    ,

             L0008578    , L0008579    , L0008580    , L0008581    , L0008582    ,
L0008583    , L0008584    , L0008585    ,

             L0008586    , L0008587    , L0008588    , L0008589    , L0008590    ,
L0008591    , L0008592    , L0008593    ,

             L0008594    , L0008595    , L0008596    , L0008597    , L0008598    ,
L0008599    , L0008600    , L0008601    ,

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L0008607    , L0008608    , L0008609    ,

             L0008610    , L0008611    , L0008612    ,

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L0000014    , L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    , L0000029    ,
L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    , L0000037    ,
L0000038    , L0000039    , L0000040    ,
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
	L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,
	L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,
	L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 ,
	L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 ,
	L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0000201 , L0000202 , L0000203 , L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
	L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
	L0000217 , L0000218 , L0000219 , L0000220 , L0008653 , L0008654 , L0008655 , L0008656 ,
	L0008657 , L0008658 , L0008659 , L0008660 , L0008661 , L0008662 , L0008663 , L0008573 ,
	L0008574 , L0008575 , L0008576 , L0008577 , L0008578 , L0008579 , L0008580 , L0008581 ,
	L0008582 , L0008583 , L0008584 , L0008585 , L0008586 , L0008587 , L0008588 , L0008589 ,
	L0008590 , L0008591 , L0008592 , L0008593 , L0008594 , L0008595 , L0008596 , L0008597 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2035210.	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
		L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
		L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
		L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
		L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
		L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
		L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,
		L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,
		L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 ,
		L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000161 , L0000162 , L0000163 , L0000164 , L0000165 ,
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             L0000209    , L0000210    , L0000211    , L0000212    , L0000213    ,
L0000214    , L0000215    , L0000216    ,

             L0000217    , L0000218    , L0000219    , L0000220    , L0008653    ,
L0008654    , L0008655    , L0008656    ,

             L0008657    , L0008658    , L0008659    , L0008660    , L0008661    ,
L0008662    , L0008663    , L0008573    ,

             L0008574    , L0008575    , L0008576    , L0008577    , L0008578    ,
L0008579    , L0008580    , L0008581    ,

             L0008582    , L0008583    , L0008584    , L0008585    , L0008586    ,
L0008587    , L0008588    , L0008589    ,

             L0008590    , L0008591    , L0008592    , L0008593    , L0008594    ,
L0008595    , L0008596    , L0008597    ,

             L0008598    , L0008599    , L0008600    , L0008601    , L0008602    ,
L0008603    , L0008604    , L0008605    ,

             L0008606    , L0008607    , L0008608    , L0008609    , L0008610    ,
L0008611    , L0008612    ,
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000001     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000002 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                            ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       09:12:32

                                    PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000003     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000004     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
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 SOURCE ID = L0000005     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000006 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                   PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000007     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000008     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                              ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                             ***        09:12:32
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000009 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                    PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000010     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000011     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000012     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

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 - - -
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000013 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000014 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000015 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = MONDAY

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

```
WEEK (HRDOW7) *

 SOURCE ID = L0000016     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
🡅 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000017     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000018 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000019   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000020 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000021   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000022   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

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22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:12:32

                                 PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000024     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000026     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000027     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000028     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000029     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000030     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                             ***    04/14/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000031 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000032 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                  PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000033     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000034     ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000035     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000036 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000037     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000038 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000039 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000040 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000041 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000042   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000043   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                              DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                              DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                              DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                              DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000044   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000045     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000046 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000047     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000048   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01

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14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000049 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000050   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000051   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000052   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000053 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                            ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       09:12:32

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000054     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000055     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                   PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
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 SOURCE ID = L0000056     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000057     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE  72
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000058     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000059     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                              ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                             ***        09:12:32
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000061 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000062 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000063     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

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 - - -
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000064 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000065 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000066 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

```
WEEK (HRDOW7) *

 SOURCE ID = L0000067     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000068 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000069 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000070   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000071 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000072   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE  87
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000073     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000074     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

```
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:12:32

                                 PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000075     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000076   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000077   ; SOURCE TYPE = VOLUME   :

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

- - - -

```
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000078     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000079     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000080     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000081     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                             ***    04/14/23
 *** AERMET - VERSION  16216 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000082 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                    PAGE  97
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000083     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                   PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000084     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE  99
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000085     ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 100
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000086     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000087   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                             ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       09:12:32

                                    PAGE 102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000088     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32

                                   PAGE 103
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000089     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000090 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000091 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000092 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000093   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000094   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000095   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000096     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000097 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 112
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000098     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 113
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000099     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
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14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000100     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000101   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000102   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000103   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

```
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000104 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                            ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       09:12:32

                                    PAGE 119
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000105     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000106     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                  PAGE 121
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
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```
 SOURCE ID = L0000107     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000108     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 123
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000109     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000110     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
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```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                              ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                             ***        09:12:32
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000111 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:12:32

                                   PAGE 126
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000112     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                            ***          04/14/23
 *** AERMET - VERSION  16216 ***   ***
                            ***         09:12:32

                                    PAGE 127
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000113     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 128
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000114     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
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 - - -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000115 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000116 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000117 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

```
WEEK (HRDOW7) *

 SOURCE ID = L0000118     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
🡅 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 133
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000119     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000120 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000121   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000122 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000123   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

```
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 138
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000124     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 139
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000125     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

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22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:12:32

                                 PAGE 140
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000126     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

```
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                  PAGE 141
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000127     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

```
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 142
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000128     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

```
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 143
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000129     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                 PAGE 144
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000130     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000131     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 146
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000132     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                             ***    04/14/23
 *** AERMET - VERSION  16216 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000133 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.1000E+01				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				

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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                    PAGE 148
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000134     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                  PAGE 149
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000135     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 150
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000136     ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 151
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000137     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 152
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000138     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 153
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000139     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 154
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000140 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000141 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000142 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000143 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000144   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000145   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000146   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000147     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000148 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000149   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:12:32

                                  PAGE 164
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000150     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
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14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000151     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000152 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000153   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000154   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

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- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000155   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                    DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                            ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       09:12:32

                                    PAGE 170
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000156     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000157     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 172
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
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```
 SOURCE ID = L0000158     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 173
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000159     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 174
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000160     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 175
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000161     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
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```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                              ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                             ***        09:12:32
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000162 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                    PAGE 177
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000163     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                            ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       09:12:32

                                    PAGE 178
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000164     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32

                                  PAGE 179
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000165     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
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 - - -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000166 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000167 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000168 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

```
WEEK (HRDOW7) *

 SOURCE ID = L0000169     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
🡅 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 184
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000170     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000171 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000172   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000173 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000174   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 189
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000175     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 190
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000176     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

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22  .0000E+00   23  .0000E+00   24  .0000E+00
🡅 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 191
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000177     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

```
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 192
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000178     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000179   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

```
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 194
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000180     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000181 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 196
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000182     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 197
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000183     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                             ***    04/14/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000184 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000185 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                  PAGE 200
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000186     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 201
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000187     ; SOURCE TYPE = VOLUME   :
```

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  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 202
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000188     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 203
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000189     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 204
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000190     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 205
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000191 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000192 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000193 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000194 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000195   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000196   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000197   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000198     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 213
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000199     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 214
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000200     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 215
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000201     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
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14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000202     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000203   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000204   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000205   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000206 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                            ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       09:12:32

                                    PAGE 221
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000207     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
🡅 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 222
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000208     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 223
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
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 SOURCE ID = L0000209     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 224
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000210     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 225
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000211     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 226
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000212     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                              ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                             ***        09:12:32
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000213 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                    PAGE 228
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000214     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000215 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32

                                  PAGE 230
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000216     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
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 - - -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000217 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000218 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000219 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

```
WEEK (HRDOW7) *

 SOURCE ID = L0000220     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008653 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0008654   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008655   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008656 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008657   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

```
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 240
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008658     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 241
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008659     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

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22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:12:32

                                 PAGE 242
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008660     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008661   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 244
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008662     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

```
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 245
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008663     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
```

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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008573     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 247
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008574     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                  PAGE 248
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008575     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                             ***    04/14/23
 *** AERMET - VERSION  16216 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008576 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008577 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008578     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                  PAGE 252
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008579     ; SOURCE TYPE = VOLUME   :
```

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  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 253
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008580     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 254
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008581     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 255
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008582     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 256
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008583 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008584 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008585 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008586 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008587   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
 *** AERMOD - VERSION 21112 ***   *** Highland, Meines&Palm CSTN
                        ***   04/14/23
 *** AERMET - VERSION 16216 ***   ***
                       ***   09:12:32

                                  PAGE 261
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008588   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0008589   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0008590     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

```
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 264
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008591     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0008592   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:12:32

                                  PAGE 266
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008593     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
```

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008594     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008595   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008596 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008597   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

```
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008598 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                            ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       09:12:32

                                    PAGE 272
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008599     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                            ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       09:12:32

                                    PAGE 273
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008600     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:12:32

                                  PAGE 274
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
```

```
 SOURCE ID = L0008601     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008602 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 276
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008603     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 277
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008604     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
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```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                              ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                             ***        09:12:32
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008605 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008606 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 280
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008607     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                  PAGE 281
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0008608     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
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 - - -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008609 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008610 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0008611 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

```
WEEK (HRDOW7) *

 SOURCE ID = L0008612     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(480416.0, 3774200.2, 360.0, 360.0, 0.0); (480386.3, 3774201.6, 359.6, 359.6, 0.0);
(480364.5, 3774200.2, 359.0, 359.0, 0.0); (480441.3, 3774196.2, 360.0, 360.0, 0.0);
(480332.6, 3774203.3, 359.0, 359.0, 0.0); (480282.0, 3774208.1, 358.1, 358.1, 0.0);
(480259.4, 3774210.9, 358.0, 358.0, 0.0); (480179.2, 3774215.2, 357.0, 357.0, 0.0);
(479777.1, 3774155.7, 353.2, 353.2, 0.0); (479903.9, 3774153.0, 354.0, 354.0, 0.0);
(479888.7, 3774072.7, 354.0, 354.0, 0.0); (480286.7, 3774147.8, 358.2, 358.2, 0.0);
(480415.6, 3774088.1, 360.0, 360.0, 0.0); (480408.0, 3774009.2, 359.8, 359.8, 0.0);
(480445.4, 3774004.6, 360.0, 360.0, 0.0); (480447.3, 3774028.7, 360.0, 360.0, 0.0);
(480276.8, 3774266.8, 358.0, 358.0, 0.0); (480151.3, 3774266.8, 357.0, 357.0, 0.0);
(480135.3, 3774266.8, 357.0, 357.0, 0.0); (479301.5, 3774414.0, 350.0, 350.0, 0.0);
(479351.5, 3774414.0, 351.0, 351.0, 0.0); (479401.5, 3774414.0, 351.0, 351.0, 0.0);
(479451.5, 3774414.0, 351.4, 351.4, 0.0); (479501.5, 3774414.0, 352.0, 352.0, 0.0);
(479551.5, 3774414.0, 352.0, 352.0, 0.0); (479601.5, 3774414.0, 353.0, 353.0, 0.0);
(479651.5, 3774414.0, 353.1, 353.1, 0.0); (479701.5, 3774414.0, 354.0, 354.0, 0.0);
(479751.5, 3774414.0, 354.0, 354.0, 0.0); (479801.5, 3774414.0, 354.1, 354.1, 0.0);
(479851.5, 3774414.0, 355.0, 355.0, 0.0); (479901.5, 3774414.0, 355.1, 355.1, 0.0);
(479951.5, 3774414.0, 356.0, 356.0, 0.0); (480001.5, 3774414.0, 356.0, 356.0, 0.0);

```
     ( 480051.5, 3774414.0,     356.5,     356.5,       0.0);         ( 480101.5,
3774414.0,     357.0,     357.0,       0.0);
     ( 480151.5, 3774414.0,     357.2,     357.2,       0.0);         ( 480201.5,
3774414.0,     358.0,     358.0,       0.0);
     ( 480251.5, 3774414.0,     358.0,     358.0,       0.0);         ( 480301.5,
3774414.0,     358.7,     358.7,       0.0);
     ( 480351.5, 3774414.0,     359.0,     359.0,       0.0);         ( 480401.5,
3774414.0,     359.3,     359.3,       0.0);
     ( 480451.5, 3774414.0,     360.0,     360.0,       0.0);         ( 480501.5,
3774414.0,     360.4,     360.4,       0.0);
     ( 480551.5, 3774414.0,     361.1,     361.1,       0.0);         ( 480601.5,
3774414.0,     362.0,     362.0,       0.0);
     ( 480651.5, 3774414.0,     362.0,     362.0,       0.0);         ( 480701.5,
3774414.0,     363.0,     363.0,       0.0);
     ( 480751.5, 3774414.0,     363.0,     363.0,       0.0);         ( 480801.5,
3774414.0,     364.0,     364.0,       0.0);
     ( 480851.5, 3774414.0,     364.0,     364.0,       0.0);         ( 480901.5,
3774414.0,     364.7,     364.7,       0.0);
     ( 480951.5, 3774414.0,     365.0,     365.0,       0.0);         ( 481001.5,
3774414.0,     365.0,     365.0,       0.0);
     ( 481051.5, 3774414.0,     365.7,     365.7,       0.0);         ( 481101.5,
3774414.0,     366.0,     366.0,       0.0);
     ( 481151.5, 3774414.0,     367.0,     367.0,       0.0);         ( 481201.5,
3774414.0,     367.7,     367.7,       0.0);
     ( 481251.5, 3774414.0,     368.4,     368.4,       0.0);         ( 481301.5,
3774414.0,     369.0,     369.0,       0.0);
     ( 481351.5, 3774414.0,     369.8,     369.8,       0.0);         ( 481401.5,
3774414.0,     370.1,     370.1,       0.0);
     ( 481451.5, 3774414.0,     371.0,     371.0,       0.0);         ( 479301.5,
3774464.0,     350.0,     350.0,       0.0);
     ( 479351.5, 3774464.0,     351.0,     351.0,       0.0);         ( 479401.5,
3774464.0,     351.0,     351.0,       0.0);
     ( 479451.5, 3774464.0,     351.9,     351.9,       0.0);         ( 479501.5,
3774464.0,     352.0,     352.0,       0.0);
     ( 479551.5, 3774464.0,     352.7,     352.7,       0.0);         ( 479601.5,
3774464.0,     353.0,     353.0,       0.0);
     ( 479651.5, 3774464.0,     353.1,     353.1,       0.0);         ( 479701.5,
3774464.0,     354.0,     354.0,       0.0);
     ( 479751.5, 3774464.0,     354.0,     354.0,       0.0);         ( 479801.5,
3774464.0,     354.9,     354.9,       0.0);
     ( 479851.5, 3774464.0,     355.0,     355.0,       0.0);         ( 479901.5,
3774464.0,     355.4,     355.4,       0.0);
     ( 479951.5, 3774464.0,     356.0,     356.0,       0.0);         ( 480001.5,
3774464.0,     356.0,     356.0,       0.0);
     ( 480051.5, 3774464.0,     357.0,     357.0,       0.0);         ( 480101.5,
3774464.0,     357.0,     357.0,       0.0);
     ( 480151.5, 3774464.0,     357.7,     357.7,       0.0);         ( 480201.5,
3774464.0,     358.0,     358.0,       0.0);
     ( 480251.5, 3774464.0,     358.1,     358.1,       0.0);         ( 480301.5,
3774464.0,     359.0,     359.0,       0.0);
     ( 480351.5, 3774464.0,     359.0,     359.0,       0.0);         ( 480401.5,
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3774464.0,     360.0,     360.0,       0.0);
     ( 480451.5, 3774464.0,     360.0,     360.0,       0.0);         ( 480501.5,
3774464.0,     360.4,     360.4,       0.0);
     ( 480551.5, 3774464.0,     361.1,     361.1,       0.0);         ( 480601.5,
3774464.0,     362.0,     362.0,       0.0);
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:12:32

                                PAGE 287
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                     (METERS)

     ( 480651.5, 3774464.0,     362.4,     362.4,       0.0);         ( 480701.5,
3774464.0,     363.0,     363.0,       0.0);
     ( 480751.5, 3774464.0,     363.0,     363.0,       0.0);         ( 480801.5,
3774464.0,     364.0,     364.0,       0.0);
     ( 480851.5, 3774464.0,     364.0,     364.0,       0.0);         ( 480901.5,
3774464.0,     364.7,     364.7,       0.0);
     ( 480951.5, 3774464.0,     365.0,     365.0,       0.0);         ( 481001.5,
3774464.0,     365.1,     365.1,       0.0);
     ( 481051.5, 3774464.0,     366.0,     366.0,       0.0);         ( 481101.5,
3774464.0,     366.0,     366.0,       0.0);
     ( 481151.5, 3774464.0,     367.0,     367.0,       0.0);         ( 481201.5,
3774464.0,     367.7,     367.7,       0.0);
     ( 481251.5, 3774464.0,     368.4,     368.4,       0.0);         ( 481301.5,
3774464.0,     369.1,     369.1,       0.0);
     ( 481351.5, 3774464.0,     370.0,     370.0,       0.0);         ( 481401.5,
3774464.0,     370.4,     370.4,       0.0);
     ( 481451.5, 3774464.0,     371.0,     371.0,       0.0);         ( 481501.5,
3774464.0,     371.7,     371.7,       0.0);
     ( 479301.5, 3774514.0,     350.4,     350.4,       0.0);         ( 479351.5,
3774514.0,     351.0,     351.0,       0.0);
     ( 479401.5, 3774514.0,     351.0,     351.0,       0.0);         ( 479451.5,
3774514.0,     352.0,     352.0,       0.0);
     ( 479501.5, 3774514.0,     352.0,     352.0,       0.0);         ( 479551.5,
3774514.0,     352.7,     352.7,       0.0);
     ( 479601.5, 3774514.0,     353.0,     353.0,       0.0);         ( 479651.5,
3774514.0,     354.0,     354.0,       0.0);
     ( 479701.5, 3774514.0,     354.0,     354.0,       0.0);         ( 479751.5,
3774514.0,     354.0,     354.0,       0.0);
     ( 479801.5, 3774514.0,     355.0,     355.0,       0.0);         ( 479851.5,
3774514.0,     355.0,     355.0,       0.0);
     ( 479901.5, 3774514.0,     356.0,     356.0,       0.0);         ( 479951.5,
3774514.0,     356.0,     356.0,       0.0);
     ( 480001.5, 3774514.0,     356.7,     356.7,       0.0);         ( 480051.5,
3774514.0,     357.0,     357.0,       0.0);
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     ( 480101.5, 3774514.0,     357.0,     357.0,       0.0);         ( 480151.5,
3774514.0,     357.9,     357.9,       0.0);
     ( 480201.5, 3774514.0,     358.0,     358.0,       0.0);         ( 480251.5,
3774514.0,     358.1,     358.1,       0.0);
     ( 480301.5, 3774514.0,     359.0,     359.0,       0.0);         ( 480351.5,
3774514.0,     359.0,     359.0,       0.0);
     ( 480401.5, 3774514.0,     360.0,     360.0,       0.0);         ( 480451.5,
3774514.0,     360.0,     360.0,       0.0);
     ( 480501.5, 3774514.0,     361.0,     361.0,       0.0);         ( 480551.5,
3774514.0,     361.1,     361.1,       0.0);
     ( 480601.5, 3774514.0,     362.0,     362.0,       0.0);         ( 480651.5,
3774514.0,     362.4,     362.4,       0.0);
     ( 480701.5, 3774514.0,     363.0,     363.0,       0.0);         ( 480751.5,
3774514.0,     363.7,     363.7,       0.0);
     ( 480801.5, 3774514.0,     364.0,     364.0,       0.0);         ( 480851.5,
3774514.0,     364.0,     364.0,       0.0);
     ( 480901.5, 3774514.0,     364.9,     364.9,       0.0);         ( 480951.5,
3774514.0,     365.0,     365.0,       0.0);
     ( 481001.5, 3774514.0,     366.0,     366.0,       0.0);         ( 481051.5,
3774514.0,     366.0,     366.0,       0.0);
     ( 481101.5, 3774514.0,     366.8,     366.8,       0.0);         ( 481151.5,
3774514.0,     367.1,     367.1,       0.0);
     ( 481201.5, 3774514.0,     368.0,     368.0,       0.0);         ( 481251.5,
3774514.0,     368.8,     368.8,       0.0);
     ( 481301.5, 3774514.0,     369.6,     369.6,       0.0);         ( 481351.5,
3774514.0,     370.0,     370.0,       0.0);
     ( 481401.5, 3774514.0,     371.0,     371.0,       0.0);         ( 481451.5,
3774514.0,     371.1,     371.1,       0.0);
     ( 481501.5, 3774514.0,     372.0,     372.0,       0.0);         ( 481551.5,
3774514.0,     372.0,     372.0,       0.0);
     ( 479301.5, 3774564.0,     350.4,     350.4,       0.0);         ( 479351.5,
3774564.0,     351.0,     351.0,       0.0);
     ( 479401.5, 3774564.0,     351.2,     351.2,       0.0);         ( 479451.5,
3774564.0,     352.0,     352.0,       0.0);
     ( 479501.5, 3774564.0,     352.0,     352.0,       0.0);         ( 479551.5,
3774564.0,     352.7,     352.7,       0.0);
     ( 479601.5, 3774564.0,     353.0,     353.0,       0.0);         ( 479651.5,
3774564.0,     354.0,     354.0,       0.0);
     ( 479701.5, 3774564.0,     354.0,     354.0,       0.0);         ( 479751.5,
3774564.0,     354.4,     354.4,       0.0);
     ( 479801.5, 3774564.0,     355.0,     355.0,       0.0);         ( 479851.5,
3774564.0,     355.0,     355.0,       0.0);
     ( 479901.5, 3774564.0,     356.0,     356.0,       0.0);         ( 479951.5,
3774564.0,     356.0,     356.0,       0.0);
     ( 480001.5, 3774564.0,     356.8,     356.8,       0.0);         ( 480051.5,
3774564.0,     357.0,     357.0,       0.0);
     ( 480101.5, 3774564.0,     358.0,     358.0,       0.0);         ( 480151.5,
3774564.0,     358.0,     358.0,       0.0);
     ( 480201.5, 3774564.0,     358.0,     358.0,       0.0);         ( 480251.5,
3774564.0,     359.0,     359.0,       0.0);
     ( 480301.5, 3774564.0,     359.0,     359.0,       0.0);         ( 480351.5,
```

3774564.0,   359.5,   359.5,   0.0);
     (480401.5, 3774564.0,   360.0,   360.0,   0.0);   (480451.5,
3774564.0,   360.2,   360.2,   0.0);
     (480501.5, 3774564.0,   361.0,   361.0,   0.0);   (480551.5,
3774564.0,   362.0,   362.0,   0.0);

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (480601.5, 3774564.0,   362.0,   362.0,   0.0);   (480651.5,
3774564.0,   362.5,   362.5,   0.0);
     (480701.5, 3774564.0,   363.0,   363.0,   0.0);   (480751.5,
3774564.0,   363.8,   363.8,   0.0);
     (480801.5, 3774564.0,   364.0,   364.0,   0.0);   (480851.5,
3774564.0,   364.3,   364.3,   0.0);
     (480901.5, 3774564.0,   365.0,   365.0,   0.0);   (480951.5,
3774564.0,   365.4,   365.4,   0.0);
     (481001.5, 3774564.0,   366.0,   366.0,   0.0);   (481051.5,
3774564.0,   366.2,   366.2,   0.0);
     (481101.5, 3774564.0,   367.1,   367.1,   0.0);   (481151.5,
3774564.0,   368.0,   368.0,   0.0);
     (481201.5, 3774564.0,   368.2,   368.2,   0.0);   (481251.5,
3774564.0,   369.0,   369.0,   0.0);
     (481301.5, 3774564.0,   370.0,   370.0,   0.0);   (481351.5,
3774564.0,   370.2,   370.2,   0.0);
     (481401.5, 3774564.0,   371.0,   371.0,   0.0);   (481451.5,
3774564.0,   372.0,   372.0,   0.0);
     (481501.5, 3774564.0,   372.0,   372.0,   0.0);   (481551.5,
3774564.0,   372.5,   372.5,   0.0);
     (479301.5, 3774614.0,   350.9,   350.9,   0.0);   (479351.5,
3774614.0,   351.0,   351.0,   0.0);
     (479401.5, 3774614.0,   351.7,   351.7,   0.0);   (479451.5,
3774614.0,   352.0,   352.0,   0.0);
     (479501.5, 3774614.0,   352.1,   352.1,   0.0);   (479551.5,
3774614.0,   353.0,   353.0,   0.0);
     (479601.5, 3774614.0,   353.0,   353.0,   0.0);   (479651.5,
3774614.0,   354.0,   354.0,   0.0);
     (479701.5, 3774614.0,   354.0,   354.0,   0.0);   (479751.5,
3774614.0,   354.9,   354.9,   0.0);
     (479801.5, 3774614.0,   355.0,   355.0,   0.0);   (479851.5,
3774614.0,   355.7,   355.7,   0.0);
     (479901.5, 3774614.0,   356.0,   356.0,   0.0);   (479951.5,
3774614.0,   356.1,   356.1,   0.0);

```
     ( 480001.5, 3774614.0,     357.0,     357.0,       0.0);         ( 480051.5,
3774614.0,     357.0,     357.0,       0.0);
     ( 480101.5, 3774614.0,     358.0,     358.0,       0.0);         ( 480151.5,
3774614.0,     358.0,     358.0,       0.0);
     ( 480201.5, 3774614.0,     358.4,     358.4,       0.0);         ( 480251.5,
3774614.0,     359.0,     359.0,       0.0);
     ( 480301.5, 3774614.0,     359.7,     359.7,       0.0);         ( 480351.5,
3774614.0,     360.0,     360.0,       0.0);
     ( 480401.5, 3774614.0,     360.1,     360.1,       0.0);         ( 480451.5,
3774614.0,     361.0,     361.0,       0.0);
     ( 480501.5, 3774614.0,     361.4,     361.4,       0.0);         ( 480551.5,
3774614.0,     362.0,     362.0,       0.0);
     ( 480601.5, 3774614.0,     362.0,     362.0,       0.0);         ( 480651.5,
3774614.0,     363.0,     363.0,       0.0);
     ( 480701.5, 3774614.0,     363.1,     363.1,       0.0);         ( 480751.5,
3774614.0,     364.0,     364.0,       0.0);
     ( 480801.5, 3774614.0,     364.0,     364.0,       0.0);         ( 480851.5,
3774614.0,     365.0,     365.0,       0.0);
     ( 480901.5, 3774614.0,     365.0,     365.0,       0.0);         ( 480951.5,
3774614.0,     365.9,     365.9,       0.0);
     ( 481001.5, 3774614.0,     366.1,     366.1,       0.0);         ( 481051.5,
3774614.0,     367.0,     367.0,       0.0);
     ( 481101.5, 3774614.0,     367.4,     367.4,       0.0);         ( 481151.5,
3774614.0,     368.0,     368.0,       0.0);
     ( 481201.5, 3774614.0,     368.7,     368.7,       0.0);         ( 481251.5,
3774614.0,     369.4,     369.4,       0.0);
     ( 481301.5, 3774614.0,     370.0,     370.0,       0.0);         ( 481351.5,
3774614.0,     370.7,     370.7,       0.0);
     ( 481401.5, 3774614.0,     371.4,     371.4,       0.0);         ( 481451.5,
3774614.0,     372.0,     372.0,       0.0);
     ( 481501.5, 3774614.0,     372.7,     372.7,       0.0);         ( 481551.5,
3774614.0,     373.0,     373.0,       0.0);
     ( 479301.5, 3774664.0,     351.0,     351.0,       0.0);         ( 479351.5,
3774664.0,     351.0,     351.0,       0.0);
     ( 479401.5, 3774664.0,     351.9,     351.9,       0.0);         ( 479451.5,
3774664.0,     352.0,     352.0,       0.0);
     ( 479501.5, 3774664.0,     352.6,     352.6,       0.0);         ( 479551.5,
3774664.0,     353.0,     353.0,       0.0);
     ( 479601.5, 3774664.0,     353.4,     353.4,       0.0);         ( 479651.5,
3774664.0,     354.0,     354.0,       0.0);
     ( 479701.5, 3774664.0,     354.0,     354.0,       0.0);         ( 479751.5,
3774664.0,     355.0,     355.0,       0.0);
     ( 479801.5, 3774664.0,     355.0,     355.0,       0.0);         ( 479851.5,
3774664.0,     355.9,     355.9,       0.0);
     ( 479901.5, 3774664.0,     356.0,     356.0,       0.0);         ( 479951.5,
3774664.0,     356.1,     356.1,       0.0);
     ( 480001.5, 3774664.0,     357.0,     357.0,       0.0);         ( 480051.5,
3774664.0,     357.4,     357.4,       0.0);
     ( 480101.5, 3774664.0,     358.0,     358.0,       0.0);         ( 480151.5,
3774664.0,     358.0,     358.0,       0.0);
     ( 480201.5, 3774664.0,     359.0,     359.0,       0.0);         ( 480251.5,
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3774664.0,     359.1,     359.1,       0.0);
     ( 480301.5, 3774664.0,     360.0,     360.0,       0.0);         ( 480351.5,
3774664.0,     360.0,     360.0,       0.0);
     ( 480401.5, 3774664.0,     360.6,     360.6,       0.0);         ( 480451.5,
3774664.0,     361.0,     361.0,       0.0);
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                 PAGE 289
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                     (METERS)

     ( 480501.5, 3774664.0,     362.0,     362.0,       0.0);         ( 480551.5,
3774664.0,     362.0,     362.0,       0.0);
     ( 480601.5, 3774664.0,     362.7,     362.7,       0.0);         ( 480651.5,
3774664.0,     363.0,     363.0,       0.0);
     ( 480701.5, 3774664.0,     363.6,     363.6,       0.0);         ( 480751.5,
3774664.0,     364.0,     364.0,       0.0);
     ( 480801.5, 3774664.0,     364.4,     364.4,       0.0);         ( 480851.5,
3774664.0,     365.0,     365.0,       0.0);
     ( 480901.5, 3774664.0,     365.7,     365.7,       0.0);         ( 480951.5,
3774664.0,     366.0,     366.0,       0.0);
     ( 481001.5, 3774664.0,     366.6,     366.6,       0.0);         ( 481051.5,
3774664.0,     367.4,     367.4,       0.0);
     ( 481101.5, 3774664.0,     368.0,     368.0,       0.0);         ( 481151.5,
3774664.0,     368.6,     368.6,       0.0);
     ( 481201.5, 3774664.0,     369.0,     369.0,       0.0);         ( 481251.5,
3774664.0,     369.8,     369.8,       0.0);
     ( 481301.5, 3774664.0,     370.0,     370.0,       0.0);         ( 481351.5,
3774664.0,     370.9,     370.9,       0.0);
     ( 481401.5, 3774664.0,     371.8,     371.8,       0.0);         ( 481451.5,
3774664.0,     372.0,     372.0,       0.0);
     ( 481501.5, 3774664.0,     372.9,     372.9,       0.0);         ( 481551.5,
3774664.0,     373.2,     373.2,       0.0);
     ( 479301.5, 3774714.0,     351.0,     351.0,       0.0);         ( 479351.5,
3774714.0,     351.3,     351.3,       0.0);
     ( 479401.5, 3774714.0,     352.0,     352.0,       0.0);         ( 479451.5,
3774714.0,     352.0,     352.0,       0.0);
     ( 479501.5, 3774714.0,     353.0,     353.0,       0.0);         ( 479551.5,
3774714.0,     353.0,     353.0,       0.0);
     ( 479601.5, 3774714.0,     354.0,     354.0,       0.0);         ( 479651.5,
3774714.0,     354.0,     354.0,       0.0);
     ( 479701.5, 3774714.0,     354.7,     354.7,       0.0);         ( 479751.5,
3774714.0,     355.0,     355.0,       0.0);
     ( 479801.5, 3774714.0,     355.3,     355.3,       0.0);         ( 479851.5,
3774714.0,     356.0,     356.0,       0.0);
```

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     ( 479901.5, 3774714.0,     356.0,     356.0,       0.0);         ( 479951.5,
3774714.0,     357.0,     357.0,       0.0);
     ( 480001.5, 3774714.0,     357.0,     357.0,       0.0);         ( 480051.5,
3774714.0,     357.5,     357.5,       0.0);
     ( 480101.5, 3774714.0,     358.0,     358.0,       0.0);         ( 480151.5,
3774714.0,     358.7,     358.7,       0.0);
     ( 480201.5, 3774714.0,     359.0,     359.0,       0.0);         ( 480251.5,
3774714.0,     360.0,     360.0,       0.0);
     ( 480301.5, 3774714.0,     360.0,     360.0,       0.0);         ( 480351.5,
3774714.0,     360.4,     360.4,       0.0);
     ( 480401.5, 3774714.0,     361.0,     361.0,       0.0);         ( 480451.5,
3774714.0,     361.7,     361.7,       0.0);
     ( 480501.5, 3774714.0,     362.0,     362.0,       0.0);         ( 480551.5,
3774714.0,     362.3,     362.3,       0.0);
     ( 480601.5, 3774714.0,     363.0,     363.0,       0.0);         ( 480651.5,
3774714.0,     363.1,     363.1,       0.0);
     ( 480701.5, 3774714.0,     364.0,     364.0,       0.0);         ( 480751.5,
3774714.0,     364.0,     364.0,       0.0);
     ( 480801.5, 3774714.0,     364.5,     364.5,       0.0);         ( 480851.5,
3774714.0,     365.1,     365.1,       0.0);
     ( 480901.5, 3774714.0,     366.0,     366.0,       0.0);         ( 480951.5,
3774714.0,     366.4,     366.4,       0.0);
     ( 481001.5, 3774714.0,     367.0,     367.0,       0.0);         ( 481051.5,
3774714.0,     367.8,     367.8,       0.0);
     ( 481101.5, 3774714.0,     368.1,     368.1,       0.0);         ( 481151.5,
3774714.0,     369.0,     369.0,       0.0);
     ( 481201.5, 3774714.0,     369.2,     369.2,       0.0);         ( 481251.5,
3774714.0,     370.0,     370.0,       0.0);
     ( 481301.5, 3774714.0,     370.3,     370.3,       0.0);         ( 481351.5,
3774714.0,     371.2,     371.2,       0.0);
     ( 481401.5, 3774714.0,     372.0,     372.0,       0.0);         ( 481451.5,
3774714.0,     372.3,     372.3,       0.0);
     ( 481501.5, 3774714.0,     373.2,     373.2,       0.0);         ( 479301.5,
3774764.0,     351.0,     351.0,       0.0);
     ( 479351.5, 3774764.0,     352.0,     352.0,       0.0);         ( 479401.5,
3774764.0,     352.0,     352.0,       0.0);
     ( 479451.5, 3774764.0,     352.4,     352.4,       0.0);         ( 479501.5,
3774764.0,     353.0,     353.0,       0.0);
     ( 479551.5, 3774764.0,     353.0,     353.0,       0.0);         ( 479601.5,
3774764.0,     354.0,     354.0,       0.0);
     ( 479651.5, 3774764.0,     354.0,     354.0,       0.0);         ( 479701.5,
3774764.0,     354.7,     354.7,       0.0);
     ( 479751.5, 3774764.0,     355.0,     355.0,       0.0);         ( 479801.5,
3774764.0,     356.0,     356.0,       0.0);
     ( 479851.5, 3774764.0,     356.0,     356.0,       0.0);         ( 479901.5,
3774764.0,     356.0,     356.0,       0.0);
     ( 479951.5, 3774764.0,     357.0,     357.0,       0.0);         ( 480001.5,
3774764.0,     357.0,     357.0,       0.0);
     ( 480051.5, 3774764.0,     358.0,     358.0,       0.0);         ( 480101.5,
3774764.0,     358.0,     358.0,       0.0);
     ( 480151.5, 3774764.0,     358.7,     358.7,       0.0);         ( 480201.5,
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3774764.0,     359.4,     359.4,       0.0);
     ( 480251.5, 3774764.0,     360.0,     360.0,       0.0);         ( 480301.5,
3774764.0,     360.0,     360.0,       0.0);
     ( 480351.5, 3774764.0,     360.9,     360.9,       0.0);         ( 480401.5,
3774764.0,     361.0,     361.0,       0.0);
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                 PAGE 290
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                     (METERS)

     ( 480451.5, 3774764.0,     361.7,     361.7,       0.0);         ( 480501.5,
3774764.0,     362.0,     362.0,       0.0);
     ( 480551.5, 3774764.0,     363.0,     363.0,       0.0);         ( 480601.5,
3774764.0,     363.0,     363.0,       0.0);
     ( 480651.5, 3774764.0,     363.9,     363.9,       0.0);         ( 480701.5,
3774764.0,     364.0,     364.0,       0.0);
     ( 480751.5, 3774764.0,     364.7,     364.7,       0.0);         ( 480801.5,
3774764.0,     365.0,     365.0,       0.0);
     ( 480851.5, 3774764.0,     365.1,     365.1,       0.0);         ( 480901.5,
3774764.0,     366.0,     366.0,       0.0);
     ( 480951.5, 3774764.0,     366.9,     366.9,       0.0);         ( 481001.5,
3774764.0,     367.1,     367.1,       0.0);
     ( 481051.5, 3774764.0,     368.0,     368.0,       0.0);         ( 481101.5,
3774764.0,     368.4,     368.4,       0.0);
     ( 481151.5, 3774764.0,     369.1,     369.1,       0.0);         ( 481201.5,
3774764.0,     370.0,     370.0,       0.0);
     ( 481251.5, 3774764.0,     370.4,     370.4,       0.0);         ( 481301.5,
3774764.0,     371.0,     371.0,       0.0);
     ( 481351.5, 3774764.0,     371.7,     371.7,       0.0);         ( 481401.5,
3774764.0,     372.4,     372.4,       0.0);
     ( 481451.5, 3774764.0,     373.0,     373.0,       0.0);         ( 481501.5,
3774764.0,     373.7,     373.7,       0.0);
     ( 479301.5, 3774814.0,     351.0,     351.0,       0.0);         ( 479351.5,
3774814.0,     352.0,     352.0,       0.0);
     ( 479401.5, 3774814.0,     352.0,     352.0,       0.0);         ( 479451.5,
3774814.0,     352.8,     352.8,       0.0);
     ( 479501.5, 3774814.0,     353.0,     353.0,       0.0);         ( 479551.5,
3774814.0,     353.7,     353.7,       0.0);
     ( 479601.5, 3774814.0,     354.0,     354.0,       0.0);         ( 479651.5,
3774814.0,     354.0,     354.0,       0.0);
     ( 479701.5, 3774814.0,     354.9,     354.9,       0.0);         ( 479751.5,
3774814.0,     355.0,     355.0,       0.0);
     ( 479801.5, 3774814.0,     356.0,     356.0,       0.0);         ( 479851.5,
3774814.0,     356.0,     356.0,       0.0);
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     ( 479901.5, 3774814.0,     356.4,     356.4,       0.0);         ( 479951.5,
3774814.0,     357.0,     357.0,       0.0);
     ( 480001.5, 3774814.0,     357.0,     357.0,       0.0);         ( 480051.5,
3774814.0,     358.0,     358.0,       0.0);
     ( 480101.5, 3774814.0,     358.0,     358.0,       0.0);         ( 480151.5,
3774814.0,     358.7,     358.7,       0.0);
     ( 480201.5, 3774814.0,     359.4,     359.4,       0.0);         ( 480251.5,
3774814.0,     360.0,     360.0,       0.0);
     ( 480301.5, 3774814.0,     360.0,     360.0,       0.0);         ( 480351.5,
3774814.0,     361.0,     361.0,       0.0);
     ( 480401.5, 3774814.0,     361.1,     361.1,       0.0);         ( 480451.5,
3774814.0,     362.0,     362.0,       0.0);
     ( 480501.5, 3774814.0,     362.2,     362.2,       0.0);         ( 480551.5,
3774814.0,     363.0,     363.0,       0.0);
     ( 480601.5, 3774814.0,     363.7,     363.7,       0.0);         ( 480651.5,
3774814.0,     364.2,     364.2,       0.0);
     ( 480701.5, 3774814.0,     365.0,     365.0,       0.0);         ( 480751.5,
3774814.0,     365.0,     365.0,       0.0);
     ( 480801.5, 3774814.0,     365.0,     365.0,       0.0);         ( 480851.5,
3774814.0,     366.0,     366.0,       0.0);
     ( 480901.5, 3774814.0,     366.0,     366.0,       0.0);         ( 480951.5,
3774814.0,     367.0,     367.0,       0.0);
     ( 481001.5, 3774814.0,     368.0,     368.0,       0.0);         ( 481051.5,
3774814.0,     368.4,     368.4,       0.0);
     ( 481101.5, 3774814.0,     369.0,     369.0,       0.0);         ( 481151.5,
3774814.0,     369.6,     369.6,       0.0);
     ( 481201.5, 3774814.0,     370.0,     370.0,       0.0);         ( 481251.5,
3774814.0,     370.8,     370.8,       0.0);
     ( 481301.5, 3774814.0,     371.1,     371.1,       0.0);         ( 481351.5,
3774814.0,     372.0,     372.0,       0.0);
     ( 481401.5, 3774814.0,     372.8,     372.8,       0.0);         ( 481451.5,
3774814.0,     373.6,     373.6,       0.0);
     ( 481501.5, 3774814.0,     374.0,     374.0,       0.0);         ( 479301.5,
3774864.0,     351.0,     351.0,       0.0);
     ( 479351.5, 3774864.0,     352.0,     352.0,       0.0);         ( 479401.5,
3774864.0,     352.0,     352.0,       0.0);
     ( 479451.5, 3774864.0,     353.0,     353.0,       0.0);         ( 479501.5,
3774864.0,     353.1,     353.1,       0.0);
     ( 479551.5, 3774864.0,     354.0,     354.0,       0.0);         ( 479601.5,
3774864.0,     354.0,     354.0,       0.0);
     ( 479651.5, 3774864.0,     354.1,     354.1,       0.0);         ( 479701.5,
3774864.0,     355.0,     355.0,       0.0);
     ( 479751.5, 3774864.0,     355.0,     355.0,       0.0);         ( 479801.5,
3774864.0,     356.0,     356.0,       0.0);
     ( 479851.5, 3774864.0,     356.0,     356.0,       0.0);         ( 479901.5,
3774864.0,     356.4,     356.4,       0.0);
     ( 479951.5, 3774864.0,     357.0,     357.0,       0.0);         ( 480001.5,
3774864.0,     357.7,     357.7,       0.0);
     ( 480051.5, 3774864.0,     358.0,     358.0,       0.0);         ( 480101.5,
3774864.0,     358.0,     358.0,       0.0);
     ( 480151.5, 3774864.0,     358.7,     358.7,       0.0);         ( 480201.5,
```

3774864.0,   359.3,   359.3,   0.0);
     (480251.5, 3774864.0,   360.0,   360.0,   0.0);   (480301.5,
3774864.0,   360.0,   360.0,   0.0);
     (480351.5, 3774864.0,   361.0,   361.0,   0.0);   (480401.5,
3774864.0,   361.3,   361.3,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                        (METERS)

     (480451.5, 3774864.0,   362.0,   362.0,   0.0);   (480501.5,
3774864.0,   362.4,   362.4,   0.0);
     (480551.5, 3774864.0,   363.1,   363.1,   0.0);   (480601.5,
3774864.0,   364.0,   364.0,   0.0);
     (480651.5, 3774864.0,   364.5,   364.5,   0.0);   (480701.5,
3774864.0,   366.0,   366.0,   0.0);
     (480751.5, 3774864.0,   365.5,   365.5,   0.0);   (480801.5,
3774864.0,   365.2,   365.2,   0.0);
     (480851.5, 3774864.0,   366.0,   366.0,   0.0);   (480901.5,
3774864.0,   366.2,   366.2,   0.0);
     (480951.5, 3774864.0,   367.4,   367.4,   0.0);   (481001.5,
3774864.0,   368.0,   368.0,   0.0);
     (481051.5, 3774864.0,   368.8,   368.8,   0.0);   (481101.5,
3774864.0,   369.4,   369.4,   0.0);
     (481151.5, 3774864.0,   370.0,   370.0,   0.0);   (481201.5,
3774864.0,   370.2,   370.2,   0.0);
     (481251.5, 3774864.0,   371.1,   371.1,   0.0);   (481301.5,
3774864.0,   372.0,   372.0,   0.0);
     (481351.5, 3774864.0,   372.7,   372.7,   0.0);   (481401.5,
3774864.0,   373.4,   373.4,   0.0);
     (481451.5, 3774864.0,   374.0,   374.0,   0.0);   (481501.5,
3774864.0,   374.8,   374.8,   0.0);
     (479301.5, 3774914.0,   351.0,   351.0,   0.0);   (479351.5,
3774914.0,   352.0,   352.0,   0.0);
     (479401.5, 3774914.0,   352.0,   352.0,   0.0);   (479451.5,
3774914.0,   353.0,   353.0,   0.0);
     (479501.5, 3774914.0,   353.1,   353.1,   0.0);   (479551.5,
3774914.0,   354.0,   354.0,   0.0);
     (479601.5, 3774914.0,   354.0,   354.0,   0.0);   (479651.5,
3774914.0,   354.1,   354.1,   0.0);
     (479701.5, 3774914.0,   355.0,   355.0,   0.0);   (479751.5,
3774914.0,   355.0,   355.0,   0.0);
     (479801.5, 3774914.0,   356.0,   356.0,   0.0);   (479851.5,
3774914.0,   356.0,   356.0,   0.0);

```
     ( 479901.5, 3774914.0,     356.4,     356.4,       0.0);         ( 479951.5,
3774914.0,     357.0,     357.0,       0.0);
     ( 480001.5, 3774914.0,     357.7,     357.7,       0.0);         ( 480051.5,
3774914.0,     358.0,     358.0,       0.0);
     ( 480101.5, 3774914.0,     358.1,     358.1,       0.0);         ( 480151.5,
3774914.0,     359.0,     359.0,       0.0);
     ( 480201.5, 3774914.0,     359.0,     359.0,       0.0);         ( 480251.5,
3774914.0,     360.0,     360.0,       0.0);
     ( 480301.5, 3774914.0,     360.0,     360.0,       0.0);         ( 480351.5,
3774914.0,     361.0,     361.0,       0.0);
     ( 480401.5, 3774914.0,     362.0,     362.0,       0.0);         ( 480451.5,
3774914.0,     362.0,     362.0,       0.0);
     ( 480501.5, 3774914.0,     362.9,     362.9,       0.0);         ( 480551.5,
3774914.0,     363.1,     363.1,       0.0);
     ( 480601.5, 3774914.0,     364.0,     364.0,       0.0);         ( 480651.5,
3774914.0,     365.0,     365.0,       0.0);
     ( 480701.5, 3774914.0,     366.0,     366.0,       0.0);         ( 480751.5,
3774914.0,     366.0,     366.0,       0.0);
     ( 480801.5, 3774914.0,     366.0,     366.0,       0.0);         ( 480851.5,
3774914.0,     366.0,     366.0,       0.0);
     ( 480901.5, 3774914.0,     366.7,     366.7,       0.0);         ( 480951.5,
3774914.0,     367.4,     367.4,       0.0);
     ( 481001.5, 3774914.0,     368.1,     368.1,       0.0);         ( 481051.5,
3774914.0,     369.0,     369.0,       0.0);
     ( 481101.5, 3774914.0,     369.9,     369.9,       0.0);         ( 481151.5,
3774914.0,     370.1,     370.1,       0.0);
     ( 481201.5, 3774914.0,     371.0,     371.0,       0.0);         ( 481251.5,
3774914.0,     371.4,     371.4,       0.0);
     ( 481301.5, 3774914.0,     372.1,     372.1,       0.0);         ( 481351.5,
3774914.0,     373.0,     373.0,       0.0);
     ( 481401.5, 3774914.0,     373.9,     373.9,       0.0);         ( 481451.5,
3774914.0,     374.9,     374.9,       0.0);
     ( 481501.5, 3774914.0,     375.7,     375.7,       0.0);         ( 479301.5,
3774964.0,     351.0,     351.0,       0.0);
     ( 479351.5, 3774964.0,     352.0,     352.0,       0.0);         ( 479401.5,
3774964.0,     352.0,     352.0,       0.0);
     ( 479451.5, 3774964.0,     353.0,     353.0,       0.0);         ( 479501.5,
3774964.0,     353.1,     353.1,       0.0);
     ( 479551.5, 3774964.0,     354.0,     354.0,       0.0);         ( 479601.5,
3774964.0,     354.0,     354.0,       0.0);
     ( 479651.5, 3774964.0,     354.1,     354.1,       0.0);         ( 479701.5,
3774964.0,     355.0,     355.0,       0.0);
     ( 479751.5, 3774964.0,     355.4,     355.4,       0.0);         ( 479801.5,
3774964.0,     356.0,     356.0,       0.0);
     ( 479851.5, 3774964.0,     356.0,     356.0,       0.0);         ( 479901.5,
3774964.0,     356.4,     356.4,       0.0);
     ( 479951.5, 3774964.0,     357.0,     357.0,       0.0);         ( 480001.5,
3774964.0,     357.7,     357.7,       0.0);
     ( 480051.5, 3774964.0,     358.0,     358.0,       0.0);         ( 480101.5,
3774964.0,     358.1,     358.1,       0.0);
     ( 480151.5, 3774964.0,     359.0,     359.0,       0.0);         ( 480201.5,
```

3774964.0, 359.0, 359.0, 0.0);
(480251.5, 3774964.0, 360.0, 360.0, 0.0); (480301.5, 3774964.0, 360.0, 360.0, 0.0);
(480351.5, 3774964.0, 361.0, 361.0, 0.0); (480401.5, 3774964.0, 362.0, 362.0, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(480451.5, 3774964.0, 362.0, 362.0, 0.0); (480501.5, 3774964.0, 363.0, 363.0, 0.0);
(480551.5, 3774964.0, 364.0, 364.0, 0.0); (480601.5, 3774964.0, 364.0, 364.0, 0.0);
(480651.5, 3774964.0, 365.0, 365.0, 0.0); (480701.5, 3774964.0, 366.0, 366.0, 0.0);
(480751.5, 3774964.0, 366.4, 366.4, 0.0); (480801.5, 3774964.0, 366.0, 366.0, 0.0);
(480851.5, 3774964.0, 366.1, 366.1, 0.0); (480901.5, 3774964.0, 367.4, 367.4, 0.0);
(480951.5, 3774964.0, 368.2, 368.2, 0.0); (481001.5, 3774964.0, 369.0, 369.0, 0.0);
(481051.5, 3774964.0, 369.9, 369.9, 0.0); (481101.5, 3774964.0, 370.2, 370.2, 0.0);
(481151.5, 3774964.0, 371.0, 371.0, 0.0); (481201.5, 3774964.0, 371.4, 371.4, 0.0);
(481251.5, 3774964.0, 372.2, 372.2, 0.0); (481301.5, 3774964.0, 373.0, 373.0, 0.0);
(481351.5, 3774964.0, 373.9, 373.9, 0.0); (481401.5, 3774964.0, 374.8, 374.8, 0.0);
(481451.5, 3774964.0, 375.6, 375.6, 0.0); (480801.5, 3775014.0, 366.7, 366.7, 0.0);
(480851.5, 3775014.0, 367.3, 367.3, 0.0); (480901.5, 3775014.0, 368.0, 368.0, 0.0);
(480951.5, 3775014.0, 368.5, 368.5, 0.0); (481001.5, 3775014.0, 369.3, 369.3, 0.0);
(481051.5, 3775014.0, 370.2, 370.2, 0.0); (481101.5, 3775014.0, 371.0, 371.0, 0.0);
(481151.5, 3775014.0, 371.3, 371.3, 0.0); (481201.5, 3775014.0, 372.2, 372.2, 0.0);
(481251.5, 3775014.0, 373.1, 373.1, 0.0); (481301.5, 3775014.0, 374.0, 374.0, 0.0);
(481351.5, 3775014.0, 375.0, 375.0, 0.0); (481401.5, 3775014.0, 375.5, 375.5, 0.0);

```
     ( 481451.5, 3775014.0,     376.3,     376.3,       0.0);         ( 480801.5,
3775064.0,     367.4,     367.4,       0.0);
     ( 480851.5, 3775064.0,     368.0,     368.0,       0.0);         ( 480901.5,
3775064.0,     368.7,     368.7,       0.0);
     ( 480951.5, 3775064.0,     369.4,     369.4,       0.0);         ( 481001.5,
3775064.0,     370.0,     370.0,       0.0);
     ( 481051.5, 3775064.0,     370.7,     370.7,       0.0);         ( 481101.5,
3775064.0,     371.4,     371.4,       0.0);
     ( 481151.5, 3775064.0,     372.0,     372.0,       0.0);         ( 481201.5,
3775064.0,     372.7,     372.7,       0.0);
     ( 481251.5, 3775064.0,     373.9,     373.9,       0.0);         ( 481301.5,
3775064.0,     375.0,     375.0,       0.0);
     ( 481351.5, 3775064.0,     376.0,     376.0,       0.0);         ( 481401.5,
3775064.0,     376.9,     376.9,       0.0);
     ( 481451.5, 3775064.0,     377.1,     377.1,       0.0);         ( 480801.5,
3775114.0,     367.8,     367.8,       0.0);
     ( 480851.5, 3775114.0,     368.6,     368.6,       0.0);         ( 480901.5,
3775114.0,     369.4,     369.4,       0.0);
     ( 480951.5, 3775114.0,     370.0,     370.0,       0.0);         ( 481001.5,
3775114.0,     370.6,     370.6,       0.0);
     ( 481051.5, 3775114.0,     371.4,     371.4,       0.0);         ( 481101.5,
3775114.0,     372.2,     372.2,       0.0);
     ( 481151.5, 3775114.0,     373.0,     373.0,       0.0);         ( 481201.5,
3775114.0,     373.9,     373.9,       0.0);
     ( 481251.5, 3775114.0,     375.0,     375.0,       0.0);         ( 481301.5,
3775114.0,     376.0,     376.0,       0.0);
     ( 481351.5, 3775114.0,     376.9,     376.9,       0.0);         ( 481401.5,
3775114.0,     377.8,     377.8,       0.0);
     ( 481451.5, 3775114.0,     378.0,     378.0,       0.0);         ( 480801.5,
3775164.0,     368.1,     368.1,       0.0);
     ( 480851.5, 3775164.0,     369.1,     369.1,       0.0);         ( 480901.5,
3775164.0,     370.0,     370.0,       0.0);
     ( 480951.5, 3775164.0,     370.5,     370.5,       0.0);         ( 481001.5,
3775164.0,     371.3,     371.3,       0.0);
     ( 481051.5, 3775164.0,     372.2,     372.2,       0.0);         ( 481101.5,
3775164.0,     373.1,     373.1,       0.0);
     ( 481151.5, 3775164.0,     374.3,     374.3,       0.0);         ( 481201.5,
3775164.0,     375.0,     375.0,       0.0);
     ( 481251.5, 3775164.0,     376.1,     376.1,       0.0);         ( 481301.5,
3775164.0,     377.0,     377.0,       0.0);
     ( 481351.5, 3775164.0,     377.8,     377.8,       0.0);         ( 481401.5,
3775164.0,     378.6,     378.6,       0.0);
     ( 481451.5, 3775164.0,     379.3,     379.3,       0.0);         ( 480801.5,
3775214.0,     368.9,     368.9,       0.0);
     ( 480851.5, 3775214.0,     369.9,     369.9,       0.0);         ( 480901.5,
3775214.0,     370.7,     370.7,       0.0);
     ( 480951.5, 3775214.0,     371.4,     371.4,       0.0);         ( 481001.5,
3775214.0,     372.0,     372.0,       0.0);
     ( 481051.5, 3775214.0,     372.7,     372.7,       0.0);         ( 481101.5,
3775214.0,     373.9,     373.9,       0.0);
     ( 481151.5, 3775214.0,     375.1,     375.1,       0.0);         ( 481201.5,
```

```
3775214.0,     376.0,     376.0,       0.0);
     ( 481251.5, 3775214.0,     377.3,     377.3,       0.0);         ( 481301.5,
3775214.0,     377.9,     377.9,       0.0);
     ( 481351.5, 3775214.0,     378.7,     378.7,       0.0);         ( 481401.5,
3775214.0,     379.9,     379.9,       0.0);
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                 PAGE 293
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                     (METERS)

     ( 481451.5, 3775214.0,     380.9,     380.9,       0.0);         ( 480801.5,
3775264.0,     369.8,     369.8,       0.0);
     ( 480851.5, 3775264.0,     370.6,     370.6,       0.0);         ( 480901.5,
3775264.0,     371.4,     371.4,       0.0);
     ( 480951.5, 3775264.0,     372.2,     372.2,       0.0);         ( 481001.5,
3775264.0,     372.6,     372.6,       0.0);
     ( 481051.5, 3775264.0,     373.9,     373.9,       0.0);         ( 481101.5,
3775264.0,     375.0,     375.0,       0.0);
     ( 481151.5, 3775264.0,     376.0,     376.0,       0.0);         ( 481201.5,
3775264.0,     377.3,     377.3,       0.0);
     ( 481251.5, 3775264.0,     378.2,     378.2,       0.0);         ( 481301.5,
3775264.0,     379.0,     379.0,       0.0);
     ( 481351.5, 3775264.0,     380.3,     380.3,       0.0);         ( 481401.5,
3775264.0,     381.0,     381.0,       0.0);
     ( 481451.5, 3775264.0,     381.6,     381.6,       0.0);         ( 480801.5,
3775314.0,     370.1,     370.1,       0.0);
     ( 480851.5, 3775314.0,     371.1,     371.1,       0.0);         ( 480901.5,
3775314.0,     372.2,     372.2,       0.0);
     ( 480951.5, 3775314.0,     373.1,     373.1,       0.0);         ( 481001.5,
3775314.0,     374.3,     374.3,       0.0);
     ( 481051.5, 3775314.0,     375.0,     375.0,       0.0);         ( 481101.5,
3775314.0,     376.1,     376.1,       0.0);
     ( 481151.5, 3775314.0,     377.3,     377.3,       0.0);         ( 481201.5,
3775314.0,     378.2,     378.2,       0.0);
     ( 481251.5, 3775314.0,     379.5,     379.5,       0.0);         ( 481301.5,
3775314.0,     380.3,     380.3,       0.0);
     ( 481351.5, 3775314.0,     381.8,     381.8,       0.0);         ( 481401.5,
3775314.0,     382.6,     382.6,       0.0);
     ( 480801.5, 3775364.0,     370.9,     370.9,       0.0);         ( 480851.5,
3775364.0,     372.0,     372.0,       0.0);
     ( 480901.5, 3775364.0,     373.0,     373.0,       0.0);         ( 480951.5,
3775364.0,     374.3,     374.3,       0.0);
     ( 481001.5, 3775364.0,     375.1,     375.1,       0.0);         ( 481051.5,
3775364.0,     376.0,     376.0,       0.0);
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     ( 481101.5, 3775364.0,     377.3,     377.3,       0.0);         ( 481151.5,
3775364.0,     378.1,     378.1,       0.0);
     ( 481201.5, 3775364.0,     379.0,     379.0,       0.0);         ( 481251.5,
3775364.0,     380.4,     380.4,       0.0);
     ( 481301.5, 3775364.0,     381.9,     381.9,       0.0);         ( 481351.5,
3775364.0,     382.7,     382.7,       0.0);
     ( 481401.5, 3775364.0,     383.9,     383.9,       0.0);         ( 480801.5,
3775414.0,     371.8,     371.8,       0.0);
     ( 480851.5, 3775414.0,     372.6,     372.6,       0.0);         ( 480901.5,
3775414.0,     373.9,     373.9,       0.0);
     ( 480951.5, 3775414.0,     375.2,     375.2,       0.0);         ( 481001.5,
3775414.0,     376.6,     376.6,       0.0);
     ( 481051.5, 3775414.0,     377.4,     377.4,       0.0);         ( 481101.5,
3775414.0,     378.2,     378.2,       0.0);
     ( 481151.5, 3775414.0,     379.6,     379.6,       0.0);         ( 481201.5,
3775414.0,     380.4,     380.4,       0.0);
     ( 481251.5, 3775414.0,     381.6,     381.6,       0.0);         ( 481301.5,
3775414.0,     382.1,     382.1,       0.0);
     ( 481351.5, 3775414.0,     383.7,     383.7,       0.0);         ( 481401.5,
3775414.0,     385.0,     385.0,       0.0);
     ( 480801.5, 3775464.0,     372.4,     372.4,       0.0);         ( 480851.5,
3775464.0,     374.0,     374.0,       0.0);
     ( 480901.5, 3775464.0,     375.0,     375.0,       0.0);         ( 480951.5,
3775464.0,     376.5,     376.5,       0.0);
     ( 481001.5, 3775464.0,     377.3,     377.3,       0.0);         ( 481051.5,
3775464.0,     378.2,     378.2,       0.0);
     ( 481101.5, 3775464.0,     379.5,     379.5,       0.0);         ( 481151.5,
3775464.0,     380.3,     380.3,       0.0);
     ( 481201.5, 3775464.0,     381.8,     381.8,       0.0);         ( 481251.5,
3775464.0,     382.5,     382.5,       0.0);
     ( 481301.5, 3775464.0,     383.3,     383.3,       0.0);         ( 481351.5,
3775464.0,     383.8,     383.8,       0.0);
     ( 481401.5, 3775464.0,     385.4,     385.4,       0.0);         ( 480801.5,
3775514.0,     373.3,     373.3,       0.0);
     ( 480851.5, 3775514.0,     375.0,     375.0,       0.0);         ( 480901.5,
3775514.0,     376.6,     376.6,       0.0);
     ( 480951.5, 3775514.0,     377.4,     377.4,       0.0);         ( 481001.5,
3775514.0,     378.9,     378.9,       0.0);
     ( 481051.5, 3775514.0,     379.6,     379.6,       0.0);         ( 481101.5,
3775514.0,     380.4,     380.4,       0.0);
     ( 481151.5, 3775514.0,     381.9,     381.9,       0.0);         ( 481201.5,
3775514.0,     382.7,     382.7,       0.0);
     ( 481251.5, 3775514.0,     383.9,     383.9,       0.0);         ( 481301.5,
3775514.0,     384.0,     384.0,       0.0);
     ( 481351.5, 3775514.0,     384.7,     384.7,       0.0);         ( 481401.5,
3775514.0,     386.7,     386.7,       0.0);
     ( 480801.5, 3775564.0,     375.0,     375.0,       0.0);         ( 480851.5,
3775564.0,     376.0,     376.0,       0.0);
     ( 480901.5, 3775564.0,     377.3,     377.3,       0.0);         ( 480951.5,
3775564.0,     378.4,     378.4,       0.0);
     ( 481001.5, 3775564.0,     379.6,     379.6,       0.0);         ( 481051.5,
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3775564.0,     380.4,     380.4,       0.0);
     ( 481101.5, 3775564.0,     381.8,     381.8,       0.0);         ( 481151.5,
3775564.0,     382.6,     382.6,       0.0);
     ( 481201.5, 3775564.0,     383.9,     383.9,       0.0);         ( 481251.5,
3775564.0,     385.0,     385.0,       0.0);
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                 PAGE 294
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                     (METERS)

     ( 481301.5, 3775564.0,     385.6,     385.6,       0.0);         ( 481351.5,
3775564.0,     387.3,     387.3,       0.0);
     ( 481401.5, 3775564.0,     389.0,     389.0,       0.0);         ( 479332.5,
3774240.2,     350.0,     350.0,       0.0);
     ( 479382.5, 3774240.2,     350.1,     350.1,       0.0);         ( 479432.5,
3774240.2,     351.0,     351.0,       0.0);
     ( 479482.5, 3774240.2,     351.0,     351.0,       0.0);         ( 479532.5,
3774240.2,     352.0,     352.0,       0.0);
     ( 479582.5, 3774240.2,     352.0,     352.0,       0.0);         ( 479632.5,
3774240.2,     352.4,     352.4,       0.0);
     ( 479682.5, 3774240.2,     353.0,     353.0,       0.0);         ( 479732.5,
3774240.2,     353.0,     353.0,       0.0);
     ( 479782.5, 3774240.2,     354.0,     354.0,       0.0);         ( 479832.5,
3774240.2,     354.0,     354.0,       0.0);
     ( 479882.5, 3774240.2,     354.0,     354.0,       0.0);         ( 479932.5,
3774240.2,     354.0,     354.0,       0.0);
     ( 479332.5, 3774290.2,     350.0,     350.0,       0.0);         ( 479382.5,
3774290.2,     351.0,     351.0,       0.0);
     ( 479432.5, 3774290.2,     351.0,     351.0,       0.0);         ( 479482.5,
3774290.2,     351.1,     351.1,       0.0);
     ( 479532.5, 3774290.2,     352.0,     352.0,       0.0);         ( 479582.5,
3774290.2,     352.0,     352.0,       0.0);
     ( 479632.5, 3774290.2,     353.0,     353.0,       0.0);         ( 479682.5,
3774290.2,     353.0,     353.0,       0.0);
     ( 479732.5, 3774290.2,     353.1,     353.1,       0.0);         ( 479782.5,
3774290.2,     353.9,     353.9,       0.0);
     ( 479832.5, 3774290.2,     354.0,     354.0,       0.0);         ( 479882.5,
3774290.2,     354.0,     354.0,       0.0);
     ( 479932.5, 3774290.2,     354.5,     354.5,       0.0);         ( 479332.5,
3774340.2,     350.0,     350.0,       0.0);
     ( 479382.5, 3774340.2,     351.0,     351.0,       0.0);         ( 479432.5,
3774340.2,     351.0,     351.0,       0.0);
     ( 479482.5, 3774340.2,     351.4,     351.4,       0.0);         ( 479532.5,
3774340.2,     352.0,     352.0,       0.0);
```

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     ( 479582.5, 3774340.2,     352.0,     352.0,       0.0);         ( 479632.5,
3774340.2,     353.0,     353.0,       0.0);
     ( 479682.5, 3774340.2,     353.1,     353.1,       0.0);         ( 479732.5,
3774340.2,     353.9,     353.9,       0.0);
     ( 479782.5, 3774340.2,     353.9,     353.9,       0.0);         ( 479832.5,
3774340.2,     354.0,     354.0,       0.0);
     ( 479882.5, 3774340.2,     354.6,     354.6,       0.0);         ( 479932.5,
3774340.2,     355.0,     355.0,       0.0);
     ( 479332.5, 3774390.2,     350.4,     350.4,       0.0);         ( 479382.5,
3774390.2,     351.0,     351.0,       0.0);
     ( 479432.5, 3774390.2,     351.0,     351.0,       0.0);         ( 479482.5,
3774390.2,     352.0,     352.0,       0.0);
     ( 479532.5, 3774390.2,     352.0,     352.0,       0.0);         ( 479582.5,
3774390.2,     352.8,     352.8,       0.0);
     ( 479632.5, 3774390.2,     353.0,     353.0,       0.0);         ( 479682.5,
3774390.2,     354.0,     354.0,       0.0);
     ( 479732.5, 3774390.2,     354.0,     354.0,       0.0);         ( 479782.5,
3774390.2,     354.0,     354.0,       0.0);
     ( 479832.5, 3774390.2,     354.5,     354.5,       0.0);         ( 479882.5,
3774390.2,     355.0,     355.0,       0.0);
     ( 479932.5, 3774390.2,     355.4,     355.4,       0.0);

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                           ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       09:12:32

                                    PAGE 295
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                  (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
```

WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: RDLD_v9.SFC
Met Version: 16216
Profile file: RDLD_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	110.	9.1	285.4	5.5
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	130.	9.1	284.5	5.5
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	100.	9.1	285.0	5.5
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	107.	9.1	284.6	5.5
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	98.	9.1	284.9	5.5
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	86.	9.1	284.5	5.5

```
 12 01 01   1 07   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90   91.    9.1  284.0    5.5
 12 01 01   1 08   -4.0  0.102 -9.000 -9.000 -999.   78.     22.9  0.32   3.22
0.54    0.90  107.    9.1  285.0    5.5
 12 01 01   1 09   44.6  0.237  0.382  0.006   43.  276.    -25.6  0.15   3.22
0.33    2.10   81.   10.1  289.1    5.5
 12 01 01   1 10  134.3  0.111  0.882  0.008  176.   99.     -1.0  0.32   3.22
0.26    0.40   72.    9.1  295.1    5.5
 12 01 01   1 11  199.8  0.409  1.429  0.005  503.  627.    -29.4  0.15   3.22
0.23    3.68   78.   10.1  297.9    5.5
 12 01 01   1 12  232.3  0.300  1.889  0.005  999.  402.    -10.0  0.32   3.22
0.22    1.80  333.    9.1  299.4    5.5
 12 01 01   1 13  230.0  0.300  2.134  0.005 1453.  394.    -10.1  0.32   3.22
0.22    1.80   72.    9.1  300.4    5.5
 12 01 01   1 14  194.0  0.294  2.109  0.005 1663.  382.    -11.2  0.32   3.22
0.24    1.80  277.    9.1  301.0    5.5
 12 01 01   1 15  126.3  0.378  1.872  0.005 1784.  557.    -36.5  0.32   3.22
0.27    2.70  243.    9.1  301.0    5.5
 12 01 01   1 16   39.5  0.199  1.278  0.005 1817.  240.    -17.2  0.32   3.22
0.36    1.30  274.    9.1  300.1    5.5
 12 01 01   1 17   -4.7  0.101 -9.000 -9.000 -999.   85.     19.0  0.32   3.22
0.65    0.90  252.    9.1  298.2    5.5
 12 01 01   1 18   -4.9  0.102 -9.000 -9.000 -999.   78.     18.2  0.32   3.22
1.00    0.90  116.    9.1  296.4    5.5
 12 01 01   1 19  -18.8  0.204 -9.000 -9.000 -999.  220.     45.6  0.15   3.22
1.00    2.27   79.   10.1  292.2    5.5
 12 01 01   1 20   -5.0  0.102 -9.000 -9.000 -999.   83.     18.1  0.32   3.22
1.00    0.90   95.    9.1  290.2    5.5
 12 01 01   1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90   99.    9.1  287.8    5.5
 12 01 01   1 22   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90  110.    9.1  287.6    5.5
 12 01 01   1 23  -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32   3.22
1.00    1.30   89.    9.1  287.2    5.5
 12 01 01   1 24   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  105.    9.1  285.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   285.5   99.0  -99.00  -99.00
 12 01 01 01    9.1 1  110.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                              ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                             ***       09:12:32

                                    PAGE 297
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480415.97	3774200.25	0.77995	480386.35	3774201.62	0.51628
480364.52	3774200.25	0.36643	480441.34	3774196.20	0.87312
480332.65	3774203.34	0.25277	480281.98	3774208.10	0.15661
480259.39	3774210.95	0.13098	480179.23	3774215.23	0.07679
479777.13	3774155.68	0.01854	479903.88	3774153.05	0.02501
479888.73	3774072.72	0.02275	480286.74	3774147.78	0.12547
480415.64	3774088.13	0.16929	480408.03	3774009.17	0.09463
480445.38	3774004.65	0.10022	480447.28	3774028.67	0.11812
480276.83	3774266.75	0.17324	480151.33	3774266.75	0.06856
480135.30	3774266.75	0.06286	479301.50	3774413.98	0.00901
479351.50	3774413.98	0.00955	479401.50	3774413.98	0.01014
479451.50	3774413.98	0.01082	479501.50	3774413.98	0.01159
479551.50	3774413.98	0.01246	479601.50	3774413.98	0.01347
479651.50	3774413.98	0.01463	479701.50	3774413.98	0.01601
479751.50	3774413.98	0.01764	479801.50		

3774413.98 0.01960
479851.50 3774413.98 0.02201 479901.50
3774413.98 0.02500
479951.50 3774413.98 0.02879 480001.50
3774413.98 0.03370
480051.50 3774413.98 0.04025 480101.50
3774413.98 0.04930
480151.50 3774413.98 0.06233 480201.50
3774413.98 0.08215
480251.50 3774413.98 0.11455 480301.50
3774413.98 0.17268
480351.50 3774413.98 0.29233 480401.50
3774413.98 0.57954
480451.50 3774413.98 1.06346 480501.50
3774413.98 1.30453
480551.50 3774413.98 1.30609 480601.50
3774413.98 1.24454
480651.50 3774413.98 1.13846 480701.50
3774413.98 0.93826
480751.50 3774413.98 0.54455 480801.50
3774413.98 0.30094
480851.50 3774413.98 0.19875 480901.50
3774413.98 0.14306
480951.50 3774413.98 0.10912 481001.50
3774413.98 0.08661
481051.50 3774413.98 0.07049 481101.50
3774413.98 0.05881
481151.50 3774413.98 0.04983 481201.50
3774413.98 0.04288
481251.50 3774413.98 0.03742 481301.50
3774413.98 0.03307
481351.50 3774413.98 0.02952 481401.50
3774413.98 0.02655
481451.50 3774413.98 0.02404 479301.50
3774463.98 0.00897
479351.50 3774463.98 0.00950 479401.50
3774463.98 0.01008
479451.50 3774463.98 0.01074 479501.50
3774463.98 0.01149
479551.50 3774463.98 0.01234 479601.50
3774463.98 0.01331
479651.50 3774463.98 0.01444 479701.50
3774463.98 0.01577
479751.50 3774463.98 0.01732 479801.50
3774463.98 0.01920
479851.50 3774463.98 0.02146 479901.50
3774463.98 0.02425
479951.50 3774463.98 0.02775 480001.50
3774463.98 0.03223
480051.50 3774463.98 0.03810 480101.50
3774463.98 0.04600

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480151.50	3774463.98	0.05699	480201.50	3774463.98	0.07288
480251.50	3774463.98	0.09688	480301.50	3774463.98	0.13463
480351.50	3774463.98	0.19540	480401.50	3774463.98	0.28586
480451.50	3774463.98	0.38649	480501.50	3774463.98	0.45301
480551.50	3774463.98	0.47478	480601.50	3774463.98	0.46459
480651.50	3774463.98	0.42947	480701.50	3774463.98	0.36173
480751.50	3774463.98	0.27386	480801.50	3774463.98	0.19525
480851.50	3774463.98	0.14491	480901.50	3774463.98	0.11113
480951.50	3774463.98	0.08847	481001.50	3774463.98	0.07237
481051.50	3774463.98	0.06022	481101.50	3774463.98	0.05124
481151.50	3774463.98	0.04405	481201.50	3774463.98	0.03838

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         481251.50    3774463.98        0.03385                    481301.50
3774463.98        0.03019
         481351.50    3774463.98        0.02717                    481401.50
3774463.98        0.02462
         481451.50    3774463.98        0.02244                    481501.50
3774463.98        0.02055
         479301.50    3774513.98        0.00891                    479351.50
3774513.98        0.00942
         479401.50    3774513.98        0.00999                    479451.50
3774513.98        0.01063
         479501.50    3774513.98        0.01135                    479551.50
3774513.98        0.01217
         479601.50    3774513.98        0.01311                    479651.50
3774513.98        0.01419
         479701.50    3774513.98        0.01544                    479751.50
3774513.98        0.01691
         479801.50    3774513.98        0.01867                    479851.50
3774513.98        0.02077
         479901.50    3774513.98        0.02334                    479951.50
3774513.98        0.02651
         480001.50    3774513.98        0.03050                    480051.50
3774513.98        0.03561
         480101.50    3774513.98        0.04230                    480151.50
3774513.98        0.05126
         480201.50    3774513.98        0.06353                    480251.50
3774513.98        0.08067
         480301.50    3774513.98        0.10468                    480351.50
3774513.98        0.13734
         480401.50    3774513.98        0.17701                    480451.50
3774513.98        0.21618
         480501.50    3774513.98        0.24324                    480551.50
3774513.98        0.25565
         480601.50    3774513.98        0.25151                    480651.50
3774513.98        0.23470
         480701.50    3774513.98        0.20480                    480751.50
3774513.98        0.16795
         480801.50    3774513.98        0.13390                    480851.50
3774513.98        0.10709
         480901.50    3774513.98        0.08635                    480951.50
3774513.98        0.07146
         481001.50    3774513.98        0.05976                    481051.50
3774513.98        0.05113
         481101.50    3774513.98        0.04413                    481151.50
3774513.98        0.03859
         481201.50    3774513.98        0.03406                    481251.50
3774513.98        0.03038
         481301.50    3774513.98        0.02736                    481351.50
3774513.98        0.02482
         481401.50    3774513.98        0.02265                    481451.50
3774513.98        0.02079
         481501.50    3774513.98        0.01913                    481551.50
```

3774513.98   0.01773
         479301.50   3774563.98   0.00883   479351.50
3774563.98   0.00932
         479401.50   3774563.98   0.00987   479451.50
3774563.98   0.01049
         479501.50   3774563.98   0.01118   479551.50
3774563.98   0.01197

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         479601.50   3774563.98   0.01286   479651.50
3774563.98   0.01388
         479701.50   3774563.98   0.01506   479751.50
3774563.98   0.01643
         479801.50   3774563.98   0.01805   479851.50
3774563.98   0.01997
         479901.50   3774563.98   0.02230   479951.50
3774563.98   0.02512
         480001.50   3774563.98   0.02861   480051.50
3774563.98   0.03298
         480101.50   3774563.98   0.03854   480151.50
3774563.98   0.04569
         480201.50   3774563.98   0.05499   480251.50
3774563.98   0.06711
         480301.50   3774563.98   0.08265   480351.50

3774563.98 0.10154
480401.50 3774563.98 0.12223 480451.50
3774563.98 0.14143
480501.50 3774563.98 0.15490 480551.50
3774563.98 0.16038
480601.50 3774563.98 0.15905 480651.50
3774563.98 0.14983
480701.50 3774563.98 0.13454 480751.50
3774563.98 0.11569
480801.50 3774563.98 0.09763 480851.50
3774563.98 0.08174
480901.50 3774563.98 0.06858 480951.50
3774563.98 0.05826
481001.50 3774563.98 0.05004 481051.50
3774563.98 0.04356
481101.50 3774563.98 0.03812 481151.50
3774563.98 0.03374
481201.50 3774563.98 0.03020 481251.50
3774563.98 0.02722
481301.50 3774563.98 0.02471 481351.50
3774563.98 0.02260
481401.50 3774563.98 0.02075 481451.50
3774563.98 0.01912
481501.50 3774563.98 0.01775 481551.50
3774563.98 0.01650
479301.50 3774613.98 0.00873 479351.50
3774613.98 0.00921
479401.50 3774613.98 0.00974 479451.50
3774613.98 0.01033
479501.50 3774613.98 0.01098 479551.50
3774613.98 0.01173
479601.50 3774613.98 0.01256 479651.50
3774613.98 0.01352
479701.50 3774613.98 0.01462 479751.50
3774613.98 0.01589
479801.50 3774613.98 0.01737 479851.50
3774613.98 0.01911
479901.50 3774613.98 0.02118 479951.50
3774613.98 0.02366
480001.50 3774613.98 0.02667 480051.50
3774613.98 0.03035
480101.50 3774613.98 0.03491 480151.50
3774613.98 0.04056
480201.50 3774613.98 0.04758 480251.50
3774613.98 0.05622
480301.50 3774613.98 0.06654 480351.50
3774613.98 0.07820
480401.50 3774613.98 0.09017 480451.50
3774613.98 0.10056
480501.50 3774613.98 0.10802 480551.50
3774613.98 0.11116

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480601.50	3774613.98	0.11028	480651.50	3774613.98	0.10447
480701.50	3774613.98	0.09615	480751.50	3774613.98	0.08518
480801.50	3774613.98	0.07465	480851.50	3774613.98	0.06428
480901.50	3774613.98	0.05584	480951.50	3774613.98	0.04835
481001.50	3774613.98	0.04245	481051.50	3774613.98	0.03739
481101.50	3774613.98	0.03325	481151.50	3774613.98	0.02980
481201.50	3774613.98	0.02688	481251.50	3774613.98	0.02445
481301.50	3774613.98	0.02236	481351.50	3774613.98	0.02055
481401.50	3774613.98	0.01898	481451.50	3774613.98	0.01759
481501.50	3774613.98	0.01636	481551.50	3774613.98	0.01530
479301.50	3774663.98	0.00861	479351.50	3774663.98	0.00907

```
         479401.50    3774663.98        0.00957                    479451.50
3774663.98        0.01013
         479501.50    3774663.98        0.01076                    479551.50
3774663.98        0.01146
         479601.50    3774663.98        0.01224                    479651.50
3774663.98        0.01313
         479701.50    3774663.98        0.01414                    479751.50
3774663.98        0.01530
         479801.50    3774663.98        0.01664                    479851.50
3774663.98        0.01821
         479901.50    3774663.98        0.02003                    479951.50
3774663.98        0.02219
         480001.50    3774663.98        0.02477                    480051.50
3774663.98        0.02785
         480101.50    3774663.98        0.03155                    480151.50
3774663.98        0.03600
         480201.50    3774663.98        0.04131                    480251.50
3774663.98        0.04756
         480301.50    3774663.98        0.05463                    480351.50
3774663.98        0.06220
         480401.50    3774663.98        0.06957                    480451.50
3774663.98        0.07583
         480501.50    3774663.98        0.07996                    480551.50
3774663.98        0.08201
         480601.50    3774663.98        0.08105                    480651.50
3774663.98        0.07778
         480701.50    3774663.98        0.07236                    480751.50
3774663.98        0.06587
         480801.50    3774663.98        0.05900                    480851.50
3774663.98        0.05229
         480901.50    3774663.98        0.04615                    480951.50
3774663.98        0.04097
         481001.50    3774663.98        0.03643                    481051.50
3774663.98        0.03248
         481101.50    3774663.98        0.02922                    481151.50
3774663.98        0.02644
         481201.50    3774663.98        0.02410                    481251.50
3774663.98        0.02205
         481301.50    3774663.98        0.02032                    481351.50
3774663.98        0.01876
         481401.50    3774663.98        0.01737                    481451.50
3774663.98        0.01620
         481501.50    3774663.98        0.01510                    481551.50
3774663.98        0.01418
         479301.50    3774713.98        0.00847                    479351.50
3774713.98        0.00891
         479401.50    3774713.98        0.00939                    479451.50
3774713.98        0.00992
         479501.50    3774713.98        0.01051                    479551.50
3774713.98        0.01116
         479601.50    3774713.98        0.01189                    479651.50
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3774713.98   0.01271
         479701.50   3774713.98   0.01364   479751.50
3774713.98   0.01469
         479801.50   3774713.98   0.01589   479851.50
3774713.98   0.01728
         479901.50   3774713.98   0.01889   479951.50
3774713.98   0.02076
         480001.50   3774713.98   0.02294   480051.50
3774713.98   0.02551
         480101.50   3774713.98   0.02851   480151.50
3774713.98   0.03203
         480201.50   3774713.98   0.03608   480251.50
3774713.98   0.04066
         480301.50   3774713.98   0.04564   480351.50
3774713.98   0.05075
         480401.50   3774713.98   0.05549   480451.50
3774713.98   0.05938
         480501.50   3774713.98   0.06209   480551.50
3774713.98   0.06323
         480601.50   3774713.98   0.06251   480651.50
3774713.98   0.06046

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         480701.50   3774713.98   0.05680   480751.50

3774713.98 0.05272
480801.50 3774713.98 0.04807 480851.50
3774713.98 0.04343
480901.50 3774713.98 0.03900 480951.50
3774713.98 0.03513
481001.50 3774713.98 0.03163 481051.50
3774713.98 0.02858
481101.50 3774713.98 0.02599 481151.50
3774713.98 0.02369
481201.50 3774713.98 0.02178 481251.50
3774713.98 0.02003
481301.50 3774713.98 0.01855 481351.50
3774713.98 0.01718
481401.50 3774713.98 0.01596 481451.50
3774713.98 0.01494
481501.50 3774713.98 0.01396 479301.50
3774763.98 0.00832
479351.50 3774763.98 0.00874 479401.50
3774763.98 0.00919
479451.50 3774763.98 0.00969 479501.50
3774763.98 0.01024
479551.50 3774763.98 0.01084 479601.50
3774763.98 0.01152
479651.50 3774763.98 0.01227 479701.50
3774763.98 0.01311
479751.50 3774763.98 0.01406 479801.50
3774763.98 0.01515
479851.50 3774763.98 0.01637 479901.50
3774763.98 0.01777
479951.50 3774763.98 0.01939 480001.50
3774763.98 0.02124
480051.50 3774763.98 0.02337 480101.50
3774763.98 0.02582
480151.50 3774763.98 0.02860 480201.50
3774763.98 0.03173
480251.50 3774763.98 0.03514 480301.50
3774763.98 0.03874
480351.50 3774763.98 0.04225 480401.50
3774763.98 0.04552
480451.50 3774763.98 0.04809 480501.50
3774763.98 0.04985
480551.50 3774763.98 0.05036 480601.50
3774763.98 0.05001
480651.50 3774763.98 0.04834 480701.50
3774763.98 0.04613
480751.50 3774763.98 0.04315 480801.50
3774763.98 0.03999
480851.50 3774763.98 0.03678 480901.50
3774763.98 0.03352
480951.50 3774763.98 0.03050 481001.50
3774763.98 0.02787

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         481051.50    3774763.98        0.02542                       481101.50
3774763.98        0.02331
         481151.50    3774763.98        0.02143                       481201.50
3774763.98        0.01973
         481251.50    3774763.98        0.01829                       481301.50
3774763.98        0.01697
         481351.50    3774763.98        0.01577                       481401.50
3774763.98        0.01471
         481451.50    3774763.98        0.01377                       481501.50
3774763.98        0.01292
         479301.50    3774813.98        0.00816                       479351.50
3774813.98        0.00855
         479401.50    3774813.98        0.00897                       479451.50
3774813.98        0.00944
         479501.50    3774813.98        0.00995                       479551.50
3774813.98        0.01051
         479601.50    3774813.98        0.01113                       479651.50
3774813.98        0.01181
         479701.50    3774813.98        0.01258                       479751.50
3774813.98        0.01344
         479801.50    3774813.98        0.01440                       479851.50
3774813.98        0.01548
         479901.50    3774813.98        0.01671                       479951.50
3774813.98        0.01810
         480001.50    3774813.98        0.01966                       480051.50
3774813.98        0.02144
         480101.50    3774813.98        0.02344                       480151.50
3774813.98        0.02567
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32

                                    PAGE 302
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480201.50	3774813.98	0.02810	480251.50	3774813.98	0.03069
480301.50	3774813.98	0.03334	480351.50	3774813.98	0.03585
480401.50	3774813.98	0.03814	480451.50	3774813.98	0.03987
480501.50	3774813.98	0.04105	480551.50	3774813.98	0.04139
480601.50	3774813.98	0.04095	480651.50	3774813.98	0.03986
480701.50	3774813.98	0.03814	480751.50	3774813.98	0.03619
480801.50	3774813.98	0.03398	480851.50	3774813.98	0.03145
480901.50	3774813.98	0.02918	480951.50	3774813.98	0.02684
481001.50	3774813.98	0.02463	481051.50	3774813.98	0.02273
481101.50	3774813.98	0.02101	481151.50	3774813.98	0.01946
481201.50	3774813.98	0.01808	481251.50	3774813.98	0.01678
481301.50	3774813.98	0.01568	481351.50	3774813.98	0.01459
481401.50	3774813.98	0.01363	481451.50	3774813.98	0.01275
481501.50	3774813.98	0.01204	479301.50	3774863.98	0.00798
479351.50	3774863.98	0.00835	479401.50	3774863.98	0.00875
479451.50	3774863.98	0.00918	479501.50	3774863.98	0.00965
479551.50	3774863.98	0.01017	479601.50	3774863.98	0.01074
479651.50	3774863.98	0.01136	479701.50	3774863.98	0.01206
479751.50	3774863.98	0.01282	479801.50	3774863.98	0.01368
479851.50	3774863.98	0.01463	479901.50	3774863.98	0.01570
479951.50	3774863.98	0.01690	480001.50	3774863.98	0.01823
480051.50	3774863.98	0.01972	480101.50	3774863.98	0.02136
480151.50	3774863.98	0.02315	480201.50		

3774863.98   0.02506
         480251.50   3774863.98   0.02706   480301.50
3774863.98   0.02904
         480351.50   3774863.98   0.03089   480401.50
3774863.98   0.03252
         480451.50   3774863.98   0.03375   480501.50
3774863.98   0.03455
         480551.50   3774863.98   0.03477   480601.50
3774863.98   0.03438
         480651.50   3774863.98   0.03358   480701.50
3774863.98   0.03214
         480751.50   3774863.98   0.03083   480801.50
3774863.98   0.02927
         480851.50   3774863.98   0.02741   480901.50
3774863.98   0.02564
         480951.50   3774863.98   0.02375   481001.50
3774863.98   0.02207
         481051.50   3774863.98   0.02050   481101.50
3774863.98   0.01909
         481151.50   3774863.98   0.01777   481201.50
3774863.98   0.01663
         481251.50   3774863.98   0.01548   481301.50
3774863.98   0.01442
         481351.50   3774863.98   0.01348   481401.50
3774863.98   0.01264
         481451.50   3774863.98   0.01190   481501.50
3774863.98   0.01122
         479301.50   3774913.98   0.00780   479351.50
3774913.98   0.00814
         479401.50   3774913.98   0.00851   479451.50
3774913.98   0.00891
         479501.50   3774913.98   0.00935   479551.50
3774913.98   0.00983
         479601.50   3774913.98   0.01034   479651.50
3774913.98   0.01091

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                    INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,

L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479701.50	3774913.98	0.01154	479751.50	3774913.98	0.01222
479801.50	3774913.98	0.01299	479851.50	3774913.98	0.01383
479901.50	3774913.98	0.01476	479951.50	3774913.98	0.01579
480001.50	3774913.98	0.01693	480051.50	3774913.98	0.01818
480101.50	3774913.98	0.01953	480151.50	3774913.98	0.02099
480201.50	3774913.98	0.02251	480251.50	3774913.98	0.02406
480301.50	3774913.98	0.02558	480351.50	3774913.98	0.02696
480401.50	3774913.98	0.02811	480451.50	3774913.98	0.02905
480501.50	3774913.98	0.02955	480551.50	3774913.98	0.02975
480601.50	3774913.98	0.02944	480651.50	3774913.98	0.02877
480701.50	3774913.98	0.02774	480751.50	3774913.98	0.02669
480801.50	3774913.98	0.02548	480851.50	3774913.98	0.02416
480901.50	3774913.98	0.02272	480951.50	3774913.98	0.02129
481001.50	3774913.98	0.01992	481051.50	3774913.98	0.01863
481101.50	3774913.98	0.01740	481151.50	3774913.98	0.01636
481201.50	3774913.98	0.01528	481251.50	3774913.98	0.01436
481301.50	3774913.98	0.01346	481351.50	3774913.98	0.01259
481401.50	3774913.98	0.01180	481451.50	3774913.98	0.01109
481501.50	3774913.98	0.01049	479301.50	3774963.98	0.00760

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         479351.50    3774963.98        0.00793                      479401.50
3774963.98        0.00827
         479451.50    3774963.98        0.00864                      479501.50
3774963.98        0.00904
         479551.50    3774963.98        0.00948                      479601.50
3774963.98        0.00995
         479651.50    3774963.98        0.01047                      479701.50
3774963.98        0.01104
         479751.50    3774963.98        0.01165                      479801.50
3774963.98        0.01233
         479851.50    3774963.98        0.01307                      479901.50
3774963.98        0.01389
         479951.50    3774963.98        0.01478                      480001.50
3774963.98        0.01575
         480051.50    3774963.98        0.01681                      480101.50
3774963.98        0.01793
         480151.50    3774963.98        0.01912                      480201.50
3774963.98        0.02034
         480251.50    3774963.98        0.02157                      480301.50
3774963.98        0.02275
         480351.50    3774963.98        0.02380                      480401.50
3774963.98        0.02466
         480451.50    3774963.98        0.02535                      480501.50
3774963.98        0.02570
         480551.50    3774963.98        0.02574                      480601.50
3774963.98        0.02560
         480651.50    3774963.98        0.02507                      480701.50
3774963.98        0.02428
         480751.50    3774963.98        0.02340                      480801.50
3774963.98        0.02253
         480851.50    3774963.98        0.02149                      480901.50
3774963.98        0.02025
         480951.50    3774963.98        0.01909                      481001.50
3774963.98        0.01800
         481051.50    3774963.98        0.01692                      481101.50
3774963.98        0.01596
         481151.50    3774963.98        0.01499                      481201.50
3774963.98        0.01413
         481251.50    3774963.98        0.01326                      481301.50
3774963.98        0.01244
         481351.50    3774963.98        0.01169                      481401.50
3774963.98        0.01102
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                       ***         04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 304
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481451.50	3774963.98	0.01041	480801.50	3775013.98	0.02004
480851.50	3775013.98	0.01914	480901.50	3775013.98	0.01823
480951.50	3775013.98	0.01732	481001.50	3775013.98	0.01642
481051.50	3775013.98	0.01551	481101.50	3775013.98	0.01464
481151.50	3775013.98	0.01387	481201.50	3775013.98	0.01305
481251.50	3775013.98	0.01226	481301.50	3775013.98	0.01154
481351.50	3775013.98	0.01088	481401.50	3775013.98	0.01033
481451.50	3775013.98	0.00980	480801.50	3775063.98	0.01796
480851.50	3775063.98	0.01725	480901.50	3775063.98	0.01651
480951.50	3775063.98	0.01576	481001.50	3775063.98	0.01501
481051.50	3775063.98	0.01425	481101.50	3775063.98	0.01353
481151.50	3775063.98	0.01281	481201.50	3775063.98	0.01212
481251.50	3775063.98	0.01139	481301.50	3775063.98	0.01075
481351.50	3775063.98	0.01018	481401.50	3775063.98	0.00966
481451.50	3775063.98	0.00925	480801.50	3775113.98	0.01627
480851.50	3775113.98	0.01566	480901.50		

3775113.98 0.01504
480951.50 3775113.98 0.01442 481001.50
3775113.98 0.01378
481051.50 3775113.98 0.01312 481101.50
3775113.98 0.01245
481151.50 3775113.98 0.01180 481201.50
3775113.98 0.01119
481251.50 3775113.98 0.01059 481301.50
3775113.98 0.01004
481351.50 3775113.98 0.00956 481401.50
3775113.98 0.00911
481451.50 3775113.98 0.00873 480801.50
3775163.98 0.01483
480851.50 3775163.98 0.01433 480901.50
3775163.98 0.01378
480951.50 3775163.98 0.01326 481001.50
3775163.98 0.01269
481051.50 3775163.98 0.01209 481101.50
3775163.98 0.01149
481151.50 3775163.98 0.01089 481201.50
3775163.98 0.01039
481251.50 3775163.98 0.00987 481301.50
3775163.98 0.00941
481351.50 3775163.98 0.00900 481401.50
3775163.98 0.00860
481451.50 3775163.98 0.00825 480801.50
3775213.98 0.01358
480851.50 3775213.98 0.01314 480901.50
3775213.98 0.01268
480951.50 3775213.98 0.01220 481001.50
3775213.98 0.01171
481051.50 3775213.98 0.01121 481101.50
3775213.98 0.01065
481151.50 3775213.98 0.01015 481201.50
3775213.98 0.00969
481251.50 3775213.98 0.00923 481301.50
3775213.98 0.00886
481351.50 3775213.98 0.00849 481401.50
3775213.98 0.00812
481451.50 3775213.98 0.00779 480801.50
3775263.98 0.01249
480851.50 3775263.98 0.01210 480901.50
3775263.98 0.01169
480951.50 3775263.98 0.01124 481001.50
3775263.98 0.01085
481051.50 3775263.98 0.01035 481101.50
3775263.98 0.00989
481151.50 3775263.98 0.00947 481201.50
3775263.98 0.00904

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481251.50	3775263.98	0.00868	481301.50	3775263.98	0.00834
481351.50	3775263.98	0.00799	481401.50	3775263.98	0.00770
481451.50	3775263.98	0.00742	480801.50	3775313.98	0.01157
480851.50	3775313.98	0.01122	480901.50	3775313.98	0.01080
480951.50	3775313.98	0.01040	481001.50	3775313.98	0.00997
481051.50	3775313.98	0.00960	481101.50	3775313.98	0.00921
481151.50	3775313.98	0.00884	481201.50	3775313.98	0.00851
481251.50	3775313.98	0.00816	481301.50	3775313.98	0.00787
481351.50	3775313.98	0.00755	481401.50	3775313.98	0.00728
480801.50	3775363.98	0.01071	480851.50	3775363.98	0.01037
480901.50	3775363.98	0.01001	480951.50	3775363.98	0.00961
481001.50	3775363.98	0.00929	481051.50	3775363.98	0.00896

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         481101.50    3775363.98        0.00861                    481151.50
3775363.98        0.00832
         481201.50    3775363.98        0.00803                    481251.50
3775363.98        0.00772
         481301.50    3775363.98        0.00742                    481351.50
3775363.98        0.00718
         481401.50    3775363.98        0.00692                    480801.50
3775413.98        0.00994
         480851.50    3775413.98        0.00965                    480901.50
3775413.98        0.00930
         480951.50    3775413.98        0.00896                    481001.50
3775413.98        0.00863
         481051.50    3775413.98        0.00836                    481101.50
3775413.98        0.00810
         481151.50    3775413.98        0.00781                    481201.50
3775413.98        0.00756
         481251.50    3775413.98        0.00730                    481301.50
3775413.98        0.00709
         481351.50    3775413.98        0.00683                    481401.50
3775413.98        0.00660
         480801.50    3775463.98        0.00927                    480851.50
3775463.98        0.00893
         480901.50    3775463.98        0.00866                    480951.50
3775463.98        0.00835
         481001.50    3775463.98        0.00812                    481051.50
3775463.98        0.00788
         481101.50    3775463.98        0.00762                    481151.50
3775463.98        0.00739
         481201.50    3775463.98        0.00714                    481251.50
3775463.98        0.00694
         481301.50    3775463.98        0.00673                    481351.50
3775463.98        0.00655
         481401.50    3775463.98        0.00633                    480801.50
3775513.98        0.00864
         480851.50    3775513.98        0.00834                    480901.50
3775513.98        0.00806
         480951.50    3775513.98        0.00786                    481001.50
3775513.98        0.00760
         481051.50    3775513.98        0.00741                    481101.50
3775513.98        0.00721
         481151.50    3775513.98        0.00698                    481201.50
3775513.98        0.00679
         481251.50    3775513.98        0.00658                    481301.50
3775513.98        0.00643
         481351.50    3775513.98        0.00626                    481401.50
3775513.98        0.00605
         480801.50    3775563.98        0.00801                    480851.50
3775563.98        0.00781
         480901.50    3775563.98        0.00760                    480951.50
3775563.98        0.00740
         481001.50    3775563.98        0.00720                    481051.50
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3775563.98        0.00702
         481101.50    3775563.98        0.00682                      481151.50
3775563.98        0.00664
         481201.50    3775563.98        0.00645                      481251.50
3775563.98        0.00628
🡅 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 306
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
         481301.50    3775563.98        0.00612                      481351.50
3775563.98        0.00593
         481401.50    3775563.98        0.00576                      479332.46
3774240.22        0.00934
         479382.46    3774240.22        0.00992                      479432.46
3774240.22        0.01058
         479482.46    3774240.22        0.01132                      479532.46
3774240.22        0.01218
         479582.46    3774240.22        0.01316                      479632.46
3774240.22        0.01430
         479682.46    3774240.22        0.01565                      479732.46
3774240.22        0.01724
         479782.46    3774240.22        0.01916                      479832.46
3774240.22        0.02150
         479882.46    3774240.22        0.02441                      479932.46
3774240.22        0.02810
         479332.46    3774290.22        0.00936                      479382.46
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3774290.22   0.00995
         479432.46   3774290.22   0.01061   479482.46
3774290.22   0.01135
         479532.46   3774290.22   0.01221   479582.46
3774290.22   0.01320
         479632.46   3774290.22   0.01435   479682.46
3774290.22   0.01569
         479732.46   3774290.22   0.01729   479782.46
3774290.22   0.01922
         479832.46   3774290.22   0.02158   479882.46
3774290.22   0.02452
         479932.46   3774290.22   0.02826   479332.46
3774340.22   0.00936
         479382.46   3774340.22   0.00995   479432.46
3774340.22   0.01061
         479482.46   3774340.22   0.01135   479532.46
3774340.22   0.01220
         479582.46   3774340.22   0.01318   479632.46
3774340.22   0.01432
         479682.46   3774340.22   0.01565   479732.46
3774340.22   0.01725
         479782.46   3774340.22   0.01915   479832.46
3774340.22   0.02148
         479882.46   3774340.22   0.02439   479932.46
3774340.22   0.02808
         479332.46   3774390.22   0.00935   479382.46
3774390.22   0.00993
         479432.46   3774390.22   0.01058   479482.46
3774390.22   0.01132
         479532.46   3774390.22   0.01215   479582.46
3774390.22   0.01312
         479632.46   3774390.22   0.01423   479682.46
3774390.22   0.01555
         479732.46   3774390.22   0.01709   479782.46
3774390.22   0.01895
         479832.46   3774390.22   0.02122   479882.46
3774390.22   0.02403
         479932.46   3774390.22   0.02757

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE ***
                                    INCLUDING SOURCE(S):   L0008653   , L0008654
, L0008655   , L0008656   , L0008657   ,

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                L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
                L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         480415.97    3774200.25        0.04109                       480386.35
3774201.62        0.03607
         480364.52    3774200.25        0.03302                       480441.34
3774196.20        0.04643
         480332.65    3774203.34        0.02932                       480281.98
3774208.10        0.02477
         480259.39    3774210.95        0.02315                       480179.23
3774215.23        0.01870
         479777.13    3774155.68        0.00936                       479903.88
3774153.05        0.01112
         479888.73    3774072.72        0.01079                       480286.74
3774147.78        0.02499
         480415.64    3774088.13        0.03828                       480408.03
3774009.17        0.03347
         480445.38    3774004.65        0.03803                       480447.28
3774028.67        0.04002
         480276.83    3774266.75        0.02409                       480151.33
3774266.75        0.01737
         480135.30    3774266.75        0.01677                       479301.50
3774413.98        0.00584
         479351.50    3774413.98        0.00608                       479401.50
3774413.98        0.00633
         479451.50    3774413.98        0.00660                       479501.50
3774413.98        0.00690
         479551.50    3774413.98        0.00722                       479601.50
3774413.98        0.00758
         479651.50    3774413.98        0.00797                       479701.50
3774413.98        0.00841
         479751.50    3774413.98        0.00889                       479801.50
3774413.98        0.00943
         479851.50    3774413.98        0.01004                       479901.50
3774413.98        0.01073
         479951.50    3774413.98        0.01152                       480001.50
3774413.98        0.01244
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         480051.50    3774413.98        0.01351                        480101.50
3774413.98        0.01477
         480151.50    3774413.98        0.01628                        480201.50
3774413.98        0.01813
         480251.50    3774413.98        0.02041                        480301.50
3774413.98        0.02330
         480351.50    3774413.98        0.02706                        480401.50
3774413.98        0.03208
         480451.50    3774413.98        0.03908                        480501.50
3774413.98        0.04932
         480551.50    3774413.98        0.06534                        480601.50
3774413.98        0.09282
         480651.50    3774413.98        0.14792                        480701.50
3774413.98        0.28924
         480751.50    3774413.98        0.47752                        480801.50
3774413.98        0.24782
         480851.50    3774413.98        0.15827                        480901.50
3774413.98        0.12170
         480951.50    3774413.98        0.10367                        481001.50
3774413.98        0.09346
         481051.50    3774413.98        0.08686                        481101.50
3774413.98        0.08250
         481151.50    3774413.98        0.07918                        481201.50
3774413.98        0.07666
         481251.50    3774413.98        0.07446                        481301.50
3774413.98        0.07241
         481351.50    3774413.98        0.07018                        481401.50
3774413.98        0.06770
         481451.50    3774413.98        0.06448                        479301.50
3774463.98        0.00582
         479351.50    3774463.98        0.00605                        479401.50
3774463.98        0.00630
         479451.50    3774463.98        0.00657                        479501.50
3774463.98        0.00685
         479551.50    3774463.98        0.00717                        479601.50
3774463.98        0.00752
         479651.50    3774463.98        0.00790                        479701.50
3774463.98        0.00832
         479751.50    3774463.98        0.00878                        479801.50
3774463.98        0.00931
         479851.50    3774463.98        0.00989                        479901.50
3774463.98        0.01055
         479951.50    3774463.98        0.01130                        480001.50
3774463.98        0.01216
         480051.50    3774463.98        0.01317                        480101.50
3774463.98        0.01434
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***

INCLUDING SOURCE(S): L0008653 , L0008654 , L0008655 , L0008656 , L0008657 , L0008658 , L0008659 , L0008660 , L0008661 , L0008662 , L0008663 , L0008573 , L0008574 , L0008575 , L0008576 , L0008577 , L0008578 , L0008579 , L0008580 , L0008581 , L0008582 , L0008583 , L0008584 , L0008585 , L0008586 , L0008587 , L0008588 , L0008589 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480151.50	3774463.98	0.01573	480201.50	3774463.98	0.01741
480251.50	3774463.98	0.01946	480301.50	3774463.98	0.02201
480351.50	3774463.98	0.02525	480401.50	3774463.98	0.02946
480451.50	3774463.98	0.03509	480501.50	3774463.98	0.04290
480551.50	3774463.98	0.05412	480601.50	3774463.98	0.07088
480651.50	3774463.98	0.09639	480701.50	3774463.98	0.13050
480751.50	3774463.98	0.14833	480801.50	3774463.98	0.12713
480851.50	3774463.98	0.10393	480901.50	3774463.98	0.08842
480951.50	3774463.98	0.07909	481001.50	3774463.98	0.07311
481051.50	3774463.98	0.06879	481101.50	3774463.98	0.06587
481151.50	3774463.98	0.06342	481201.50	3774463.98	0.06143
481251.50	3774463.98	0.05959	481301.50	3774463.98	0.05780
481351.50	3774463.98	0.05582	481401.50	3774463.98	0.05371
481451.50	3774463.98	0.05117	481501.50		

```
3774463.98        0.04815
         479301.50    3774513.98        0.00579                    479351.50
3774513.98        0.00602
         479401.50    3774513.98        0.00625                    479451.50
3774513.98        0.00652
         479501.50    3774513.98        0.00680                    479551.50
3774513.98        0.00711
         479601.50    3774513.98        0.00744                    479651.50
3774513.98        0.00781
         479701.50    3774513.98        0.00822                    479751.50
3774513.98        0.00866
         479801.50    3774513.98        0.00916                    479851.50
3774513.98        0.00971
         479901.50    3774513.98        0.01034                    479951.50
3774513.98        0.01104
         480001.50    3774513.98        0.01185                    480051.50
3774513.98        0.01278
         480101.50    3774513.98        0.01386                    480151.50
3774513.98        0.01513
         480201.50    3774513.98        0.01663                    480251.50
3774513.98        0.01844
         480301.50    3774513.98        0.02066                    480351.50
3774513.98        0.02340
         480401.50    3774513.98        0.02686                    480451.50
3774513.98        0.03129
         480501.50    3774513.98        0.03707                    480551.50
3774513.98        0.04471
         480601.50    3774513.98        0.05468                    480651.50
3774513.98        0.06687
         480701.50    3774513.98        0.07869                    480751.50
3774513.98        0.08395
         480801.50    3774513.98        0.08027                    480851.50
3774513.98        0.07322
         480901.50    3774513.98        0.06652                    480951.50
3774513.98        0.06185
         481001.50    3774513.98        0.05819                    481051.50
3774513.98        0.05569
         481101.50    3774513.98        0.05360                    481151.50
3774513.98        0.05194
         481201.50    3774513.98        0.05037                    481251.50
3774513.98        0.04883
         481301.50    3774513.98        0.04730                    481351.50
3774513.98        0.04575
         481401.50    3774513.98        0.04390                    481451.50
3774513.98        0.04194
         481501.50    3774513.98        0.03956                    481551.50
3774513.98        0.03708
         479301.50    3774563.98        0.00575                    479351.50
3774563.98        0.00597
         479401.50    3774563.98        0.00621                    479451.50
3774563.98        0.00646
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0008653 , L0008654 , L0008655 , L0008656 , L0008657 ,
L0008658 , L0008659 , L0008660 , L0008661 , L0008662 , L0008663 , L0008573 , L0008574 ,
L0008575 , L0008576 , L0008577 , L0008578 , L0008579 , L0008580 , L0008581 , L0008582 ,
L0008583 , L0008584 , L0008585 , L0008586 , L0008587 , L0008588 , L0008589 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479601.50	3774563.98	0.00735	479651.50	3774563.98	0.00771
479701.50	3774563.98	0.00809	479751.50	3774563.98	0.00852
479801.50	3774563.98	0.00899	479851.50	3774563.98	0.00951
479901.50	3774563.98	0.01010	479951.50	3774563.98	0.01076
480001.50	3774563.98	0.01151	480051.50	3774563.98	0.01236
480101.50	3774563.98	0.01335	480151.50	3774563.98	0.01449
480201.50	3774563.98	0.01582	480251.50	3774563.98	0.01741
480301.50	3774563.98	0.01931	480351.50	3774563.98	0.02160
480401.50	3774563.98	0.02440	480451.50	3774563.98	0.02785
480501.50	3774563.98	0.03211	480551.50	3774563.98	0.03731

480601.50 3774563.98 0.04343 480651.50
3774563.98 0.04993
480701.50 3774563.98 0.05545 480751.50
3774563.98 0.05811
480801.50 3774563.98 0.05760 480851.50
3774563.98 0.05517
480901.50 3774563.98 0.05221 480951.50
3774563.98 0.04972
481001.50 3774563.98 0.04763 481051.50
3774563.98 0.04602
481101.50 3774563.98 0.04454 481151.50
3774563.98 0.04324
481201.50 3774563.98 0.04208 481251.50
3774563.98 0.04088
481301.50 3774563.98 0.03958 481351.50
3774563.98 0.03832
481401.50 3774563.98 0.03683 481451.50
3774563.98 0.03510
481501.50 3774563.98 0.03337 481551.50
3774563.98 0.03138
479301.50 3774613.98 0.00571 479351.50
3774613.98 0.00592
479401.50 3774613.98 0.00615 479451.50
3774613.98 0.00639
479501.50 3774613.98 0.00665 479551.50
3774613.98 0.00694
479601.50 3774613.98 0.00725 479651.50
3774613.98 0.00759
479701.50 3774613.98 0.00795 479751.50
3774613.98 0.00836
479801.50 3774613.98 0.00880 479851.50
3774613.98 0.00930
479901.50 3774613.98 0.00984 479951.50
3774613.98 0.01045
480001.50 3774613.98 0.01114 480051.50
3774613.98 0.01192
480101.50 3774613.98 0.01281 480151.50
3774613.98 0.01383
480201.50 3774613.98 0.01501 480251.50
3774613.98 0.01639
480301.50 3774613.98 0.01801 480351.50
3774613.98 0.01991
480401.50 3774613.98 0.02217 480451.50
3774613.98 0.02486
480501.50 3774613.98 0.02801 480551.50
3774613.98 0.03164
480601.50 3774613.98 0.03558 480651.50
3774613.98 0.03944
480701.50 3774613.98 0.04258 480751.50
3774613.98 0.04424
480801.50 3774613.98 0.04456 480851.50

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3774613.98        0.04360
         480901.50    3774613.98        0.04242                       480951.50
3774613.98        0.04099
         481001.50    3774613.98        0.03983                       481051.50
3774613.98        0.03868
         481101.50    3774613.98        0.03770                       481151.50
3774613.98        0.03676
         481201.50    3774613.98        0.03576                       481251.50
3774613.98        0.03480
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***       04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:12:32

                                 PAGE 310
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
                L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         481301.50    3774613.98        0.03378                       481351.50
3774613.98        0.03266
         481401.50    3774613.98        0.03144                       481451.50
3774613.98        0.03009
         481501.50    3774613.98        0.02860                       481551.50
3774613.98        0.02705
         479301.50    3774663.98        0.00566                       479351.50
3774663.98        0.00586
         479401.50    3774663.98        0.00608                       479451.50
3774663.98        0.00631
         479501.50    3774663.98        0.00657                       479551.50
3774663.98        0.00684
         479601.50    3774663.98        0.00714                       479651.50
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3774663.98 0.00746
479701.50 3774663.98 0.00780 479751.50
3774663.98 0.00819
479801.50 3774663.98 0.00860 479851.50
3774663.98 0.00906
479901.50 3774663.98 0.00957 479951.50
3774663.98 0.01013
480001.50 3774663.98 0.01076 480051.50
3774663.98 0.01147
480101.50 3774663.98 0.01227 480151.50
3774663.98 0.01318
480201.50 3774663.98 0.01422 480251.50
3774663.98 0.01540
480301.50 3774663.98 0.01678 480351.50
3774663.98 0.01836
480401.50 3774663.98 0.02019 480451.50
3774663.98 0.02229
480501.50 3774663.98 0.02466 480551.50
3774663.98 0.02726
480601.50 3774663.98 0.02993 480651.50
3774663.98 0.03244
480701.50 3774663.98 0.03445 480751.50
3774663.98 0.03566
480801.50 3774663.98 0.03610 480851.50
3774663.98 0.03588
480901.50 3774663.98 0.03529 480951.50
3774663.98 0.03461
481001.50 3774663.98 0.03386 481051.50
3774663.98 0.03309
481101.50 3774663.98 0.03238 481151.50
3774663.98 0.03160
481201.50 3774663.98 0.03089 481251.50
3774663.98 0.03008
481301.50 3774663.98 0.02927 481351.50
3774663.98 0.02832
481401.50 3774663.98 0.02727 481451.50
3774663.98 0.02620
481501.50 3774663.98 0.02495 481551.50
3774663.98 0.02370
479301.50 3774713.98 0.00560 479351.50
3774713.98 0.00579
479401.50 3774713.98 0.00601 479451.50
3774713.98 0.00623
479501.50 3774713.98 0.00647 479551.50
3774713.98 0.00673
479601.50 3774713.98 0.00701 479651.50
3774713.98 0.00732
479701.50 3774713.98 0.00765 479751.50
3774713.98 0.00800
479801.50 3774713.98 0.00839 479851.50
3774713.98 0.00882

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         479901.50    3774713.98        0.00928                      479951.50
3774713.98        0.00981
         480001.50    3774713.98        0.01038                      480051.50
3774713.98        0.01102
         480101.50    3774713.98        0.01174                      480151.50
3774713.98        0.01254
         480201.50    3774713.98        0.01345                      480251.50
3774713.98        0.01448
         480301.50    3774713.98        0.01564                      480351.50
3774713.98        0.01696
         480401.50    3774713.98        0.01845                      480451.50
3774713.98        0.02011
         480501.50    3774713.98        0.02192                      480551.50
3774713.98        0.02383
         480601.50    3774713.98        0.02574                      480651.50
3774713.98        0.02748
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32

                                    PAGE 311
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                    INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                  L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
                  L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                  L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         480701.50    3774713.98        0.02884                      480751.50
3774713.98        0.02981
         480801.50    3774713.98        0.03026                      480851.50
3774713.98        0.03031
         480901.50    3774713.98        0.03005                      480951.50
3774713.98        0.02969
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         481001.50    3774713.98        0.02923                    481051.50
3774713.98        0.02872
         481101.50    3774713.98        0.02817                    481151.50
3774713.98        0.02758
         481201.50    3774713.98        0.02701                    481251.50
3774713.98        0.02634
         481301.50    3774713.98        0.02566                    481351.50
3774713.98        0.02486
         481401.50    3774713.98        0.02399                    481451.50
3774713.98        0.02309
         481501.50    3774713.98        0.02204                    479301.50
3774763.98        0.00553
         479351.50    3774763.98        0.00572                    479401.50
3774763.98        0.00592
         479451.50    3774763.98        0.00614                    479501.50
3774763.98        0.00637
         479551.50    3774763.98        0.00661                    479601.50
3774763.98        0.00688
         479651.50    3774763.98        0.00716                    479701.50
3774763.98        0.00747
         479751.50    3774763.98        0.00781                    479801.50
3774763.98        0.00817
         479851.50    3774763.98        0.00857                    479901.50
3774763.98        0.00899
         479951.50    3774763.98        0.00947                    480001.50
3774763.98        0.00999
         480051.50    3774763.98        0.01057                    480101.50
3774763.98        0.01121
         480151.50    3774763.98        0.01193                    480201.50
3774763.98        0.01272
         480251.50    3774763.98        0.01361                    480301.50
3774763.98        0.01460
         480351.50    3774763.98        0.01570                    480401.50
3774763.98        0.01692
         480451.50    3774763.98        0.01825                    480501.50
3774763.98        0.01966
         480551.50    3774763.98        0.02111                    480601.50
3774763.98        0.02252
         480651.50    3774763.98        0.02376                    480701.50
3774763.98        0.02481
         480751.50    3774763.98        0.02551                    480801.50
3774763.98        0.02595
         480851.50    3774763.98        0.02614                    480901.50
3774763.98        0.02606
         480951.50    3774763.98        0.02584                    481001.50
3774763.98        0.02560
         481051.50    3774763.98        0.02523                    481101.50
3774763.98        0.02481
         481151.50    3774763.98        0.02435                    481201.50
3774763.98        0.02384
         481251.50    3774763.98        0.02331                    481301.50
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3774763.98        0.02272
         481351.50    3774763.98        0.02204                       481401.50
3774763.98        0.02132
         481451.50    3774763.98        0.02052                       481501.50
3774763.98        0.01966
         479301.50    3774813.98        0.00546                       479351.50
3774813.98        0.00564
         479401.50    3774813.98        0.00583                       479451.50
3774813.98        0.00604
         479501.50    3774813.98        0.00625                       479551.50
3774813.98        0.00649
         479601.50    3774813.98        0.00674                       479651.50
3774813.98        0.00701
         479701.50    3774813.98        0.00730                       479751.50
3774813.98        0.00761
         479801.50    3774813.98        0.00795                       479851.50
3774813.98        0.00831
         479901.50    3774813.98        0.00871                       479951.50
3774813.98        0.00914
         480001.50    3774813.98        0.00961                       480051.50
3774813.98        0.01014
         480101.50    3774813.98        0.01071                       480151.50
3774813.98        0.01134
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32

                                    PAGE 312
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                    INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                  L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
                  L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                  L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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480201.50	3774813.98	0.01204	480251.50	3774813.98	0.01281
480301.50	3774813.98	0.01365	480351.50	3774813.98	0.01458
480401.50	3774813.98	0.01559	480451.50	3774813.98	0.01666
480501.50	3774813.98	0.01778	480551.50	3774813.98	0.01891
480601.50	3774813.98	0.01997	480651.50	3774813.98	0.02091
480701.50	3774813.98	0.02168	480751.50	3774813.98	0.02229
480801.50	3774813.98	0.02269	480851.50	3774813.98	0.02285
480901.50	3774813.98	0.02292	480951.50	3774813.98	0.02281
481001.50	3774813.98	0.02261	481051.50	3774813.98	0.02234
481101.50	3774813.98	0.02204	481151.50	3774813.98	0.02168
481201.50	3774813.98	0.02130	481251.50	3774813.98	0.02083
481301.50	3774813.98	0.02034	481351.50	3774813.98	0.01976
481401.50	3774813.98	0.01912	481451.50	3774813.98	0.01841
481501.50	3774813.98	0.01772	479301.50	3774863.98	0.00538
479351.50	3774863.98	0.00555	479401.50	3774863.98	0.00573
479451.50	3774863.98	0.00593	479501.50	3774863.98	0.00614
479551.50	3774863.98	0.00636	479601.50	3774863.98	0.00659
479651.50	3774863.98	0.00684	479701.50	3774863.98	0.00711
479751.50	3774863.98	0.00740	479801.50	3774863.98	0.00772
479851.50	3774863.98	0.00805	479901.50	3774863.98	0.00842
479951.50	3774863.98	0.00881	480001.50	3774863.98	0.00924
480051.50	3774863.98	0.00971	480101.50	3774863.98	0.01022
480151.50	3774863.98	0.01079	480201.50	3774863.98	0.01140
480251.50	3774863.98	0.01207	480301.50	3774863.98	0.01279
480351.50	3774863.98	0.01358	480401.50	3774863.98	0.01442

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         480451.50    3774863.98        0.01530                      480501.50
3774863.98        0.01620
         480551.50    3774863.98        0.01709                      480601.50
3774863.98        0.01792
         480651.50    3774863.98        0.01866                      480701.50
3774863.98        0.01923
         480751.50    3774863.98        0.01975                      480801.50
3774863.98        0.02012
         480851.50    3774863.98        0.02030                      480901.50
3774863.98        0.02038
         480951.50    3774863.98        0.02033                      481001.50
3774863.98        0.02018
         481051.50    3774863.98        0.01999                      481101.50
3774863.98        0.01975
         481151.50    3774863.98        0.01947                      481201.50
3774863.98        0.01916
         481251.50    3774863.98        0.01875                      481301.50
3774863.98        0.01830
         481351.50    3774863.98        0.01780                      481401.50
3774863.98        0.01725
         481451.50    3774863.98        0.01666                      481501.50
3774863.98        0.01604
         479301.50    3774913.98        0.00529                      479351.50
3774913.98        0.00546
         479401.50    3774913.98        0.00563                      479451.50
3774913.98        0.00582
         479501.50    3774913.98        0.00601                      479551.50
3774913.98        0.00622
         479601.50    3774913.98        0.00644                      479651.50
3774913.98        0.00667
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***         04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:12:32

                                   PAGE 313
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                 L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
                 L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                 L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479701.50	3774913.98	0.00693	479751.50	3774913.98	0.00720
479801.50	3774913.98	0.00749	479851.50	3774913.98	0.00780
479901.50	3774913.98	0.00813	479951.50	3774913.98	0.00849
480001.50	3774913.98	0.00889	480051.50	3774913.98	0.00931
480101.50	3774913.98	0.00977	480151.50	3774913.98	0.01027
480201.50	3774913.98	0.01081	480251.50	3774913.98	0.01139
480301.50	3774913.98	0.01202	480351.50	3774913.98	0.01269
480401.50	3774913.98	0.01340	480451.50	3774913.98	0.01412
480501.50	3774913.98	0.01486	480551.50	3774913.98	0.01558
480601.50	3774913.98	0.01624	480651.50	3774913.98	0.01682
480701.50	3774913.98	0.01730	480751.50	3774913.98	0.01771
480801.50	3774913.98	0.01802	480851.50	3774913.98	0.01822
480901.50	3774913.98	0.01830	480951.50	3774913.98	0.01830
481001.50	3774913.98	0.01820	481051.50	3774913.98	0.01805
481101.50	3774913.98	0.01783	481151.50	3774913.98	0.01763
481201.50	3774913.98	0.01733	481251.50	3774913.98	0.01702
481301.50	3774913.98	0.01664	481351.50	3774913.98	0.01619
481401.50	3774913.98	0.01568	481451.50	3774913.98	0.01514
481501.50	3774913.98	0.01459	479301.50	3774963.98	0.00521
479351.50	3774963.98	0.00536	479401.50	3774963.98	0.00553
479451.50	3774963.98	0.00570	479501.50	3774963.98	0.00589
479551.50	3774963.98	0.00608	479601.50		

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3774963.98        0.00629
         479651.50    3774963.98        0.00651                      479701.50
3774963.98        0.00674
         479751.50    3774963.98        0.00699                      479801.50
3774963.98        0.00726
         479851.50    3774963.98        0.00755                      479901.50
3774963.98        0.00785
         479951.50    3774963.98        0.00819                      480001.50
3774963.98        0.00854
         480051.50    3774963.98        0.00893                      480101.50
3774963.98        0.00934
         480151.50    3774963.98        0.00979                      480201.50
3774963.98        0.01026
         480251.50    3774963.98        0.01077                      480301.50
3774963.98        0.01132
         480351.50    3774963.98        0.01189                      480401.50
3774963.98        0.01249
         480451.50    3774963.98        0.01310                      480501.50
3774963.98        0.01371
         480551.50    3774963.98        0.01429                      480601.50
3774963.98        0.01484
         480651.50    3774963.98        0.01531                      480701.50
3774963.98        0.01571
         480751.50    3774963.98        0.01604                      480801.50
3774963.98        0.01632
         480851.50    3774963.98        0.01650                      480901.50
3774963.98        0.01656
         480951.50    3774963.98        0.01654                      481001.50
3774963.98        0.01648
         481051.50    3774963.98        0.01636                      481101.50
3774963.98        0.01622
         481151.50    3774963.98        0.01602                      481201.50
3774963.98        0.01579
         481251.50    3774963.98        0.01550                      481301.50
3774963.98        0.01515
         481351.50    3774963.98        0.01475                      481401.50
3774963.98        0.01431
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32

                                    PAGE 314
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                    INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                  L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
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                 L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                 L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         481451.50    3774963.98        0.01385                      480801.50
3775013.98        0.01488
         480851.50    3775013.98        0.01503                      480901.50
3775013.98        0.01511
         480951.50    3775013.98        0.01510                      481001.50
3775013.98        0.01506
         481051.50    3775013.98        0.01496                      481101.50
3775013.98        0.01483
         481151.50    3775013.98        0.01468                      481201.50
3775013.98        0.01445
         481251.50    3775013.98        0.01417                      481301.50
3775013.98        0.01384
         481351.50    3775013.98        0.01348                      481401.50
3775013.98        0.01313
         481451.50    3775013.98        0.01273                      480801.50
3775063.98        0.01366
         480851.50    3775063.98        0.01379                      480901.50
3775063.98        0.01384
         480951.50    3775063.98        0.01385                      481001.50
3775063.98        0.01382
         481051.50    3775063.98        0.01375                      481101.50
3775063.98        0.01364
         481151.50    3775063.98        0.01350                      481201.50
3775063.98        0.01330
         481251.50    3775063.98        0.01301                      481301.50
3775063.98        0.01271
         481351.50    3775063.98        0.01238                      481401.50
3775063.98        0.01203
         481451.50    3775063.98        0.01175                      480801.50
3775113.98        0.01263
         480851.50    3775113.98        0.01271                      480901.50
3775113.98        0.01275
         480951.50    3775113.98        0.01278                      481001.50
3775113.98        0.01275
         481051.50    3775113.98        0.01269                      481101.50
3775113.98        0.01258
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         481151.50    3775113.98        0.01243                        481201.50
3775113.98        0.01223
         481251.50    3775113.98        0.01198                        481301.50
3775113.98        0.01170
         481351.50    3775113.98        0.01143                        481401.50
3775113.98        0.01113
         481451.50    3775113.98        0.01087                        480801.50
3775163.98        0.01171
         480851.50    3775163.98        0.01178                        480901.50
3775163.98        0.01183
         480951.50    3775163.98        0.01184                        481001.50
3775163.98        0.01182
         481051.50    3775163.98        0.01175                        481101.50
3775163.98        0.01164
         481151.50    3775163.98        0.01146                        481201.50
3775163.98        0.01129
         481251.50    3775163.98        0.01106                        481301.50
3775163.98        0.01083
         481351.50    3775163.98        0.01059                        481401.50
3775163.98        0.01033
         481451.50    3775163.98        0.01007                        480801.50
3775213.98        0.01090
         480851.50    3775213.98        0.01097                        480901.50
3775213.98        0.01101
         480951.50    3775213.98        0.01102                        481001.50
3775213.98        0.01100
         481051.50    3775213.98        0.01094                        481101.50
3775213.98        0.01080
         481151.50    3775213.98        0.01064                        481201.50
3775213.98        0.01047
         481251.50    3775213.98        0.01024                        481301.50
3775213.98        0.01006
         481351.50    3775213.98        0.00985                        481401.50
3775213.98        0.00958
         481451.50    3775213.98        0.00932                        480801.50
3775263.98        0.01019
         480851.50    3775263.98        0.01025                        480901.50
3775263.98        0.01028
         480951.50    3775263.98        0.01028                        481001.50
3775263.98        0.01027
         481051.50    3775263.98        0.01016                        481101.50
3775263.98        0.01004
         481151.50    3775263.98        0.00990                        481201.50
3775263.98        0.00971
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
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                                  PAGE 315
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***

INCLUDING SOURCE(S): L0008653 , L0008654 , L0008655 , L0008656 , L0008657 , L0008658 , L0008659 , L0008660 , L0008661 , L0008662 , L0008663 , L0008573 , L0008574 , L0008575 , L0008576 , L0008577 , L0008578 , L0008579 , L0008580 , L0008581 , L0008582 , L0008583 , L0008584 , L0008585 , L0008586 , L0008587 , L0008588 , L0008589 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481251.50	3775263.98	0.00954	481301.50	3775263.98	0.00936
481351.50	3775263.98	0.00913	481401.50	3775263.98	0.00893
481451.50	3775263.98	0.00873	480801.50	3775313.98	0.00958
480851.50	3775313.98	0.00962	480901.50	3775313.98	0.00963
480951.50	3775313.98	0.00961	481001.50	3775313.98	0.00954
481051.50	3775313.98	0.00947	481101.50	3775313.98	0.00935
481151.50	3775313.98	0.00921	481201.50	3775313.98	0.00907
481251.50	3775313.98	0.00888	481301.50	3775313.98	0.00872
481351.50	3775313.98	0.00849	481401.50	3775313.98	0.00831
480801.50	3775363.98	0.00901	480851.50	3775363.98	0.00905
480901.50	3775363.98	0.00904	480951.50	3775363.98	0.00898
481001.50	3775363.98	0.00894	481051.50	3775363.98	0.00886
481101.50	3775363.98	0.00873	481151.50	3775363.98	0.00863
481201.50	3775363.98	0.00851	481251.50	3775363.98	0.00833
481301.50	3775363.98	0.00812	481351.50		

3775363.98 0.00798
481401.50 3775363.98 0.00778 480801.50
3775413.98 0.00851
480851.50 3775413.98 0.00853 480901.50
3775413.98 0.00850
480951.50 3775413.98 0.00843 481001.50
3775413.98 0.00834
481051.50 3775413.98 0.00828 481101.50
3775413.98 0.00820
481151.50 3775413.98 0.00806 481201.50
3775413.98 0.00795
481251.50 3775413.98 0.00781 481301.50
3775413.98 0.00770
481351.50 3775413.98 0.00750 481401.50
3775413.98 0.00733
480801.50 3775463.98 0.00805 480851.50
3775463.98 0.00801
480901.50 3775463.98 0.00799 480951.50
3775463.98 0.00791
481001.50 3775463.98 0.00787 481051.50
3775463.98 0.00780
481101.50 3775463.98 0.00769 481151.50
3775463.98 0.00760
481201.50 3775463.98 0.00746 481251.50
3775463.98 0.00735
481301.50 3775463.98 0.00724 481351.50
3775463.98 0.00714
481401.50 3775463.98 0.00696 480801.50
3775513.98 0.00761
480851.50 3775513.98 0.00757 480901.50
3775513.98 0.00750
480951.50 3775513.98 0.00747 481001.50
3775513.98 0.00737
481051.50 3775513.98 0.00732 481101.50
3775513.98 0.00726
481151.50 3775513.98 0.00713 481201.50
3775513.98 0.00704
481251.50 3775513.98 0.00692 481301.50
3775513.98 0.00686
481351.50 3775513.98 0.00676 481401.50
3775513.98 0.00659
480801.50 3775563.98 0.00717 480851.50
3775563.98 0.00715
480901.50 3775563.98 0.00710 480951.50
3775563.98 0.00705
481001.50 3775563.98 0.00699 481051.50
3775563.98 0.00693
481101.50 3775563.98 0.00684 481151.50
3775563.98 0.00676
481201.50 3775563.98 0.00665 481251.50
3775563.98 0.00655

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0008653 , L0008654 , L0008655 , L0008656 , L0008657 ,
L0008658 , L0008659 , L0008660 , L0008661 , L0008662 , L0008663 , L0008573 , L0008574 ,
L0008575 , L0008576 , L0008577 , L0008578 , L0008579 , L0008580 , L0008581 , L0008582 ,
L0008583 , L0008584 , L0008585 , L0008586 , L0008587 , L0008588 , L0008589 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3775563.98	0.00647	481351.50	3775563.98	0.00634
481401.50	3775563.98	0.00621	479332.46	3774240.22	0.00601
479382.46	3774240.22	0.00626	479432.46	3774240.22	0.00654
479482.46	3774240.22	0.00684	479532.46	3774240.22	0.00717
479582.46	3774240.22	0.00753	479632.46	3774240.22	0.00793
479682.46	3774240.22	0.00838	479732.46	3774240.22	0.00887
479782.46	3774240.22	0.00943	479832.46	3774240.22	0.01006
479882.46	3774240.22	0.01078	479932.46	3774240.22	0.01161
479332.46	3774290.22	0.00601	479382.46	3774290.22	0.00627
479432.46	3774290.22	0.00654	479482.46	3774290.22	0.00684
479532.46	3774290.22	0.00717	479582.46	3774290.22	0.00752

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         479632.46    3774290.22        0.00792                        479682.46
3774290.22        0.00836
         479732.46    3774290.22        0.00885                        479782.46
3774290.22        0.00940
         479832.46    3774290.22        0.01002                        479882.46
3774290.22        0.01073
         479932.46    3774290.22        0.01154                        479332.46
3774340.22        0.00601
         479382.46    3774340.22        0.00626                        479432.46
3774340.22        0.00653
         479482.46    3774340.22        0.00682                        479532.46
3774340.22        0.00715
         479582.46    3774340.22        0.00750                        479632.46
3774340.22        0.00789
         479682.46    3774340.22        0.00832                        479732.46
3774340.22        0.00881
         479782.46    3774340.22        0.00934                        479832.46
3774340.22        0.00995
         479882.46    3774340.22        0.01064                        479932.46
3774340.22        0.01144
         479332.46    3774390.22        0.00599                        479382.46
3774390.22        0.00624
         479432.46    3774390.22        0.00651                        479482.46
3774390.22        0.00680
         479532.46    3774390.22        0.00711                        479582.46
3774390.22        0.00746
         479632.46    3774390.22        0.00785                        479682.46
3774390.22        0.00827
         479732.46    3774390.22        0.00874                        479782.46
3774390.22        0.00926
         479832.46    3774390.22        0.00985                        479882.46
3774390.22        0.01052
         479932.46    3774390.22        0.01129

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                              ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
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                                       PAGE 317
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                   *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                       INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
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, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480415.97	3774200.25	0.82104	480386.35	3774201.62	0.55235
480364.52	3774200.25	0.39944	480441.34	3774196.20	0.91955
480332.65	3774203.34	0.28210	480281.98	3774208.10	0.18139
480259.39	3774210.95	0.15413	480179.23	3774215.23	0.09549
479777.13	3774155.68	0.02790	479903.88	3774153.05	0.03613
479888.73	3774072.72	0.03353	480286.74	3774147.78	0.15046
480415.64	3774088.13	0.20757	480408.03	3774009.17	0.12810
480445.38	3774004.65	0.13825	480447.28	3774028.67	0.15814
480276.83	3774266.75	0.19734	480151.33	3774266.75	0.08593
480135.30	3774266.75	0.07963	479301.50	3774413.98	0.01485
479351.50	3774413.98	0.01563	479401.50	3774413.98	0.01647
479451.50	3774413.98	0.01742	479501.50	3774413.98	0.01849
479551.50	3774413.98	0.01968	479601.50	3774413.98	0.02105
479651.50	3774413.98	0.02261	479701.50	3774413.98	0.02442
479751.50	3774413.98	0.02653	479801.50	3774413.98	0.02903
479851.50	3774413.98	0.03205	479901.50	3774413.98	0.03572
479951.50	3774413.98	0.04031	480001.50	3774413.98	0.04613
480051.50	3774413.98	0.05376	480101.50	3774413.98	0.06407
480151.50	3774413.98	0.07861	480201.50	3774413.98	0.10028
480251.50	3774413.98	0.13496	480301.50		

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3774413.98        0.19598
         480351.50    3774413.98        0.31938                      480401.50
3774413.98        0.61162
         480451.50    3774413.98        1.10254                      480501.50
3774413.98        1.35385
         480551.50    3774413.98        1.37143                      480601.50
3774413.98        1.33736
         480651.50    3774413.98        1.28638                      480701.50
3774413.98        1.22750
         480751.50    3774413.98        1.02206                      480801.50
3774413.98        0.54877
         480851.50    3774413.98        0.35702                      480901.50
3774413.98        0.26476
         480951.50    3774413.98        0.21279                      481001.50
3774413.98        0.18007
         481051.50    3774413.98        0.15735                      481101.50
3774413.98        0.14131
         481151.50    3774413.98        0.12901                      481201.50
3774413.98        0.11954
         481251.50    3774413.98        0.11189                      481301.50
3774413.98        0.10548
         481351.50    3774413.98        0.09970                      481401.50
3774413.98        0.09425
         481451.50    3774413.98        0.08852                      479301.50
3774463.98        0.01478
         479351.50    3774463.98        0.01555                      479401.50
3774463.98        0.01638
         479451.50    3774463.98        0.01731                      479501.50
3774463.98        0.01834
         479551.50    3774463.98        0.01951                      479601.50
3774463.98        0.02083
         479651.50    3774463.98        0.02234                      479701.50
3774463.98        0.02409
         479751.50    3774463.98        0.02611                      479801.50
3774463.98        0.02850
         479851.50    3774463.98        0.03135                      479901.50
3774463.98        0.03480
         479951.50    3774463.98        0.03905                      480001.50
3774463.98        0.04439
         480051.50    3774463.98        0.05127                      480101.50
3774463.98        0.06034
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 318
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
```

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480151.50	3774463.98	0.07273	480201.50	3774463.98	0.09029
480251.50	3774463.98	0.11634	480301.50	3774463.98	0.15664
480351.50	3774463.98	0.22065	480401.50	3774463.98	0.31532
480451.50	3774463.98	0.42159	480501.50	3774463.98	0.49591
480551.50	3774463.98	0.52890	480601.50	3774463.98	0.53547
480651.50	3774463.98	0.52586	480701.50	3774463.98	0.49223
480751.50	3774463.98	0.42219	480801.50	3774463.98	0.32238
480851.50	3774463.98	0.24883	480901.50	3774463.98	0.19955
480951.50	3774463.98	0.16756	481001.50	3774463.98	0.14548
481051.50	3774463.98	0.12901	481101.50	3774463.98	0.11711
481151.50	3774463.98	0.10747	481201.50	3774463.98	0.09981
481251.50	3774463.98	0.09344	481301.50	3774463.98	0.08798
481351.50	3774463.98	0.08299	481401.50	3774463.98	0.07832
481451.50	3774463.98	0.07360	481501.50	3774463.98	0.06870
479301.50	3774513.98	0.01470	479351.50	3774513.98	0.01544
479401.50	3774513.98	0.01624	479451.50	3774513.98	0.01715

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         479501.50    3774513.98        0.01815                    479551.50
3774513.98        0.01928
         479601.50    3774513.98        0.02055                    479651.50
3774513.98        0.02201
         479701.50    3774513.98        0.02366                    479751.50
3774513.98        0.02557
         479801.50    3774513.98        0.02783                    479851.50
3774513.98        0.03048
         479901.50    3774513.98        0.03368                    479951.50
3774513.98        0.03755
         480001.50    3774513.98        0.04235                    480051.50
3774513.98        0.04839
         480101.50    3774513.98        0.05616                    480151.50
3774513.98        0.06639
         480201.50    3774513.98        0.08016                    480251.50
3774513.98        0.09911
         480301.50    3774513.98        0.12534                    480351.50
3774513.98        0.16074
         480401.50    3774513.98        0.20387                    480451.50
3774513.98        0.24747
         480501.50    3774513.98        0.28031                    480551.50
3774513.98        0.30036
         480601.50    3774513.98        0.30619                    480651.50
3774513.98        0.30157
         480701.50    3774513.98        0.28349                    480751.50
3774513.98        0.25190
         480801.50    3774513.98        0.21417                    480851.50
3774513.98        0.18031
         480901.50    3774513.98        0.15287                    480951.50
3774513.98        0.13330
         481001.50    3774513.98        0.11795                    481051.50
3774513.98        0.10682
         481101.50    3774513.98        0.09773                    481151.50
3774513.98        0.09053
         481201.50    3774513.98        0.08442                    481251.50
3774513.98        0.07921
         481301.50    3774513.98        0.07467                    481351.50
3774513.98        0.07057
         481401.50    3774513.98        0.06654                    481451.50
3774513.98        0.06273
         481501.50    3774513.98        0.05869                    481551.50
3774513.98        0.05481
         479301.50    3774563.98        0.01458                    479351.50
3774563.98        0.01530
         479401.50    3774563.98        0.01608                    479451.50
3774563.98        0.01695
         479501.50    3774563.98        0.01791                    479551.50
3774563.98        0.01900
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479601.50	3774563.98	0.02021	479651.50	3774563.98	0.02159
479701.50	3774563.98	0.02315	479751.50	3774563.98	0.02495
479801.50	3774563.98	0.02704	479851.50	3774563.98	0.02948
479901.50	3774563.98	0.03240	479951.50	3774563.98	0.03588
480001.50	3774563.98	0.04012	480051.50	3774563.98	0.04534
480101.50	3774563.98	0.05188	480151.50	3774563.98	0.06017
480201.50	3774563.98	0.07082	480251.50	3774563.98	0.08452
480301.50	3774563.98	0.10196	480351.50	3774563.98	0.12314
480401.50	3774563.98	0.14664	480451.50	3774563.98	0.16928
480501.50	3774563.98	0.18701	480551.50	3774563.98	0.19769
480601.50	3774563.98	0.20248	480651.50	3774563.98	0.19976
480701.50	3774563.98	0.18998	480751.50	3774563.98	0.17380
480801.50	3774563.98	0.15523	480851.50		

3774563.98 0.13690
480901.50 3774563.98 0.12079 480951.50
3774563.98 0.10798
481001.50 3774563.98 0.09767 481051.50
3774563.98 0.08957
481101.50 3774563.98 0.08266 481151.50
3774563.98 0.07698
481201.50 3774563.98 0.07227 481251.50
3774563.98 0.06809
481301.50 3774563.98 0.06430 481351.50
3774563.98 0.06092
481401.50 3774563.98 0.05758 481451.50
3774563.98 0.05422
481501.50 3774563.98 0.05111 481551.50
3774563.98 0.04788
479301.50 3774613.98 0.01444 479351.50
3774613.98 0.01512
479401.50 3774613.98 0.01589 479451.50
3774613.98 0.01672
479501.50 3774613.98 0.01764 479551.50
3774613.98 0.01867
479601.50 3774613.98 0.01981 479651.50
3774613.98 0.02111
479701.50 3774613.98 0.02257 479751.50
3774613.98 0.02425
479801.50 3774613.98 0.02617 479851.50
3774613.98 0.02841
479901.50 3774613.98 0.03102 479951.50
3774613.98 0.03411
480001.50 3774613.98 0.03782 480051.50
3774613.98 0.04228
480101.50 3774613.98 0.04772 480151.50
3774613.98 0.05439
480201.50 3774613.98 0.06259 480251.50
3774613.98 0.07261
480301.50 3774613.98 0.08455 480351.50
3774613.98 0.09811
480401.50 3774613.98 0.11234 480451.50
3774613.98 0.12542
480501.50 3774613.98 0.13603 480551.50
3774613.98 0.14280
480601.50 3774613.98 0.14586 480651.50
3774613.98 0.14391
480701.50 3774613.98 0.13872 480751.50
3774613.98 0.12941
480801.50 3774613.98 0.11921 480851.50
3774613.98 0.10789
480901.50 3774613.98 0.09826 480951.50
3774613.98 0.08934
481001.50 3774613.98 0.08228 481051.50
3774613.98 0.07607

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481101.50	3774613.98	0.07095	481151.50	3774613.98	0.06656
481201.50	3774613.98	0.06264	481251.50	3774613.98	0.05925
481301.50	3774613.98	0.05614	481351.50	3774613.98	0.05322
481401.50	3774613.98	0.05042	481451.50	3774613.98	0.04768
481501.50	3774613.98	0.04496	481551.50	3774613.98	0.04235
479301.50	3774663.98	0.01427	479351.50	3774663.98	0.01493
479401.50	3774663.98	0.01566	479451.50	3774663.98	0.01645
479501.50	3774663.98	0.01733	479551.50	3774663.98	0.01830
479601.50	3774663.98	0.01938	479651.50	3774663.98	0.02059
479701.50	3774663.98	0.02194	479751.50	3774663.98	0.02349
479801.50	3774663.98	0.02524	479851.50	3774663.98	0.02727

479901.50 3774663.98 0.02960 479951.50
3774663.98 0.03232
480001.50 3774663.98 0.03553 480051.50
3774663.98 0.03932
480101.50 3774663.98 0.04382 480151.50
3774663.98 0.04917
480201.50 3774663.98 0.05553 480251.50
3774663.98 0.06296
480301.50 3774663.98 0.07141 480351.50
3774663.98 0.08056
480401.50 3774663.98 0.08976 480451.50
3774663.98 0.09812
480501.50 3774663.98 0.10463 480551.50
3774663.98 0.10927
480601.50 3774663.98 0.11098 480651.50
3774663.98 0.11022
480701.50 3774663.98 0.10681 480751.50
3774663.98 0.10153
480801.50 3774663.98 0.09509 480851.50
3774663.98 0.08817
480901.50 3774663.98 0.08144 480951.50
3774663.98 0.07558
481001.50 3774663.98 0.07028 481051.50
3774663.98 0.06557
481101.50 3774663.98 0.06160 481151.50
3774663.98 0.05804
481201.50 3774663.98 0.05499 481251.50
3774663.98 0.05213
481301.50 3774663.98 0.04959 481351.50
3774663.98 0.04708
481401.50 3774663.98 0.04464 481451.50
3774663.98 0.04240
481501.50 3774663.98 0.04006 481551.50
3774663.98 0.03789
479301.50 3774713.98 0.01407 479351.50
3774713.98 0.01470
479401.50 3774713.98 0.01540 479451.50
3774713.98 0.01615
479501.50 3774713.98 0.01698 479551.50
3774713.98 0.01789
479601.50 3774713.98 0.01891 479651.50
3774713.98 0.02002
479701.50 3774713.98 0.02128 479751.50
3774713.98 0.02269
479801.50 3774713.98 0.02428 479851.50
3774713.98 0.02610
479901.50 3774713.98 0.02817 479951.50
3774713.98 0.03057
480001.50 3774713.98 0.03332 480051.50
3774713.98 0.03653
480101.50 3774713.98 0.04025 480151.50

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3774713.98        0.04457
         480201.50    3774713.98        0.04953                       480251.50
3774713.98        0.05514
         480301.50    3774713.98        0.06129                       480351.50
3774713.98        0.06771
         480401.50    3774713.98        0.07394                       480451.50
3774713.98        0.07949
         480501.50    3774713.98        0.08401                       480551.50
3774713.98        0.08707
         480601.50    3774713.98        0.08825                       480651.50
3774713.98        0.08794
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 321
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         480701.50    3774713.98        0.08565                       480751.50
3774713.98        0.08254
         480801.50    3774713.98        0.07833                       480851.50
3774713.98        0.07374
         480901.50    3774713.98        0.06905                       480951.50
3774713.98        0.06483
         481001.50    3774713.98        0.06086                       481051.50
3774713.98        0.05730
         481101.50    3774713.98        0.05416                       481151.50
3774713.98        0.05127
         481201.50    3774713.98        0.04879                       481251.50
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3774713.98 0.04637
481301.50 3774713.98 0.04421 481351.50
3774713.98 0.04203
481401.50 3774713.98 0.03994 481451.50
3774713.98 0.03804
481501.50 3774713.98 0.03600 479301.50
3774763.98 0.01385
479351.50 3774763.98 0.01446 479401.50
3774763.98 0.01511
479451.50 3774763.98 0.01582 479501.50
3774763.98 0.01660
479551.50 3774763.98 0.01745 479601.50
3774763.98 0.01840
479651.50 3774763.98 0.01943 479701.50
3774763.98 0.02059
479751.50 3774763.98 0.02187 479801.50
3774763.98 0.02332
479851.50 3774763.98 0.02494 479901.50
3774763.98 0.02677
479951.50 3774763.98 0.02886 480001.50
3774763.98 0.03123
480051.50 3774763.98 0.03395 480101.50
3774763.98 0.03703
480151.50 3774763.98 0.04053 480201.50
3774763.98 0.04445
480251.50 3774763.98 0.04876 480301.50
3774763.98 0.05334
480351.50 3774763.98 0.05796 480401.50
3774763.98 0.06244
480451.50 3774763.98 0.06634 480501.50
3774763.98 0.06951
480551.50 3774763.98 0.07147 480601.50
3774763.98 0.07253
480651.50 3774763.98 0.07210 480701.50
3774763.98 0.07093
480751.50 3774763.98 0.06867 480801.50
3774763.98 0.06593
480851.50 3774763.98 0.06292 480901.50
3774763.98 0.05958
480951.50 3774763.98 0.05634 481001.50
3774763.98 0.05347
481051.50 3774763.98 0.05065 481101.50
3774763.98 0.04812
481151.50 3774763.98 0.04579 481201.50
3774763.98 0.04356
481251.50 3774763.98 0.04159 481301.50
3774763.98 0.03968
481351.50 3774763.98 0.03782 481401.50
3774763.98 0.03603
481451.50 3774763.98 0.03429 481501.50
3774763.98 0.03258

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         479301.50    3774813.98        0.01361                      479351.50
3774813.98        0.01419
         479401.50    3774813.98        0.01480                      479451.50
3774813.98        0.01548
         479501.50    3774813.98        0.01620                      479551.50
3774813.98        0.01700
         479601.50    3774813.98        0.01787                      479651.50
3774813.98        0.01882
         479701.50    3774813.98        0.01988                      479751.50
3774813.98        0.02104
         479801.50    3774813.98        0.02235                      479851.50
3774813.98        0.02379
         479901.50    3774813.98        0.02541                      479951.50
3774813.98        0.02724
         480001.50    3774813.98        0.02928                      480051.50
3774813.98        0.03158
         480101.50    3774813.98        0.03415                      480151.50
3774813.98        0.03701
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                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
         480201.50    3774813.98        0.04014                      480251.50
3774813.98        0.04350
         480301.50    3774813.98        0.04699                      480351.50
3774813.98        0.05044
```

480401.50 3774813.98 0.05373 480451.50
3774813.98 0.05653
480501.50 3774813.98 0.05883 480551.50
3774813.98 0.06029
480601.50 3774813.98 0.06092 480651.50
3774813.98 0.06078
480701.50 3774813.98 0.05982 480751.50
3774813.98 0.05847
480801.50 3774813.98 0.05668 480851.50
3774813.98 0.05430
480901.50 3774813.98 0.05210 480951.50
3774813.98 0.04965
481001.50 3774813.98 0.04724 481051.50
3774813.98 0.04507
481101.50 3774813.98 0.04305 481151.50
3774813.98 0.04113
481201.50 3774813.98 0.03937 481251.50
3774813.98 0.03761
481301.50 3774813.98 0.03603 481351.50
3774813.98 0.03435
481401.50 3774813.98 0.03275 481451.50
3774813.98 0.03116
481501.50 3774813.98 0.02977 479301.50
3774863.98 0.01336
479351.50 3774863.98 0.01390 479401.50
3774863.98 0.01448
479451.50 3774863.98 0.01511 479501.50
3774863.98 0.01579
479551.50 3774863.98 0.01653 479601.50
3774863.98 0.01733
479651.50 3774863.98 0.01820 479701.50
3774863.98 0.01917
479751.50 3774863.98 0.02022 479801.50
3774863.98 0.02140
479851.50 3774863.98 0.02268 479901.50
3774863.98 0.02412
479951.50 3774863.98 0.02571 480001.50
3774863.98 0.02748
480051.50 3774863.98 0.02943 480101.50
3774863.98 0.03158
480151.50 3774863.98 0.03394 480201.50
3774863.98 0.03646
480251.50 3774863.98 0.03913 480301.50
3774863.98 0.04184
480351.50 3774863.98 0.04447 480401.50
3774863.98 0.04694
480451.50 3774863.98 0.04905 480501.50
3774863.98 0.05075
480551.50 3774863.98 0.05186 480601.50
3774863.98 0.05230
480651.50 3774863.98 0.05223 480701.50

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3774863.98        0.05137
         480751.50    3774863.98        0.05058                      480801.50
3774863.98        0.04939
         480851.50    3774863.98        0.04771                      480901.50
3774863.98        0.04603
         480951.50    3774863.98        0.04408                      481001.50
3774863.98        0.04225
         481051.50    3774863.98        0.04050                      481101.50
3774863.98        0.03884
         481151.50    3774863.98        0.03724                      481201.50
3774863.98        0.03579
         481251.50    3774863.98        0.03424                      481301.50
3774863.98        0.03273
         481351.50    3774863.98        0.03129                      481401.50
3774863.98        0.02989
         481451.50    3774863.98        0.02857                      481501.50
3774863.98        0.02725
         479301.50    3774913.98        0.01309                      479351.50
3774913.98        0.01360
         479401.50    3774913.98        0.01414                      479451.50
3774913.98        0.01473
         479501.50    3774913.98        0.01536                      479551.50
3774913.98        0.01605
         479601.50    3774913.98        0.01678                      479651.50
3774913.98        0.01758
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 323
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M) CONC

- - - -

```
         479851.50    3774963.98        0.02062                       479901.50
3774963.98        0.02174
         479951.50    3774963.98        0.02297                       480001.50
3774963.98        0.02430
         480051.50    3774963.98        0.02573                       480101.50
3774963.98        0.02727
         480151.50    3774963.98        0.02891                       480201.50
3774963.98        0.03060
         480251.50    3774963.98        0.03234                       480301.50
3774963.98        0.03406
         480351.50    3774963.98        0.03569                       480401.50
3774963.98        0.03715
         480451.50    3774963.98        0.03845                       480501.50
3774963.98        0.03941
         480551.50    3774963.98        0.04003                       480601.50
3774963.98        0.04044
         480651.50    3774963.98        0.04039                       480701.50
3774963.98        0.03999
         480751.50    3774963.98        0.03944                       480801.50
3774963.98        0.03885
         480851.50    3774963.98        0.03799                       480901.50
3774963.98        0.03681
         480951.50    3774963.98        0.03564                       481001.50
3774963.98        0.03448
         481051.50    3774963.98        0.03328                       481101.50
3774963.98        0.03219
         481151.50    3774963.98        0.03101                       481201.50
3774963.98        0.02992
         481251.50    3774963.98        0.02875                       481301.50
3774963.98        0.02759
         481351.50    3774963.98        0.02644                       481401.50
3774963.98        0.02533
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:12:32

                                    PAGE 324
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481451.50	3774963.98	0.02426	480801.50	3775013.98	0.03492
480851.50	3775013.98	0.03417	480901.50	3775013.98	0.03334
480951.50	3775013.98	0.03243	481001.50	3775013.98	0.03148
481051.50	3775013.98	0.03047	481101.50	3775013.98	0.02946
481151.50	3775013.98	0.02855	481201.50	3775013.98	0.02750
481251.50	3775013.98	0.02643	481301.50	3775013.98	0.02538
481351.50	3775013.98	0.02436	481401.50	3775013.98	0.02346
481451.50	3775013.98	0.02254	480801.50	3775063.98	0.03162
480851.50	3775063.98	0.03105	480901.50	3775063.98	0.03034
480951.50	3775063.98	0.02961	481001.50	3775063.98	0.02883
481051.50	3775063.98	0.02800	481101.50	3775063.98	0.02716
481151.50	3775063.98	0.02631	481201.50	3775063.98	0.02542
481251.50	3775063.98	0.02440	481301.50	3775063.98	0.02346
481351.50	3775063.98	0.02256	481401.50	3775063.98	0.02169
481451.50	3775063.98	0.02101	480801.50	3775113.98	0.02890
480851.50	3775113.98	0.02837	480901.50	3775113.98	0.02780
480951.50	3775113.98	0.02719	481001.50	3775113.98	0.02654
481051.50	3775113.98	0.02580	481101.50	3775113.98	0.02503
481151.50	3775113.98	0.02423	481201.50	3775113.98	0.02342
481251.50	3775113.98	0.02257	481301.50	3775113.98	0.02175
481351.50	3775113.98	0.02098	481401.50		

3775113.98   0.02023
         481451.50   3775113.98   0.01961   480801.50
3775163.98   0.02654
         480851.50   3775163.98   0.02612   480901.50
3775163.98   0.02561
         480951.50   3775163.98   0.02510   481001.50
3775163.98   0.02451
         481051.50   3775163.98   0.02384   481101.50
3775163.98   0.02313
         481151.50   3775163.98   0.02235   481201.50
3775163.98   0.02168
         481251.50   3775163.98   0.02093   481301.50
3775163.98   0.02024
         481351.50   3775163.98   0.01959   481401.50
3775163.98   0.01893
         481451.50   3775163.98   0.01832   480801.50
3775213.98   0.02448
         480851.50   3775213.98   0.02410   480901.50
3775213.98   0.02368
         480951.50   3775213.98   0.02322   481001.50
3775213.98   0.02271
         481051.50   3775213.98   0.02215   481101.50
3775213.98   0.02145
         481151.50   3775213.98   0.02078   481201.50
3775213.98   0.02016
         481251.50   3775213.98   0.01947   481301.50
3775213.98   0.01891
         481351.50   3775213.98   0.01834   481401.50
3775213.98   0.01770
         481451.50   3775213.98   0.01711   480801.50
3775263.98   0.02268
         480851.50   3775263.98   0.02235   480901.50
3775263.98   0.02197
         480951.50   3775263.98   0.02153   481001.50
3775263.98   0.02112
         481051.50   3775263.98   0.02051   481101.50
3775263.98   0.01993
         481151.50   3775263.98   0.01936   481201.50
3775263.98   0.01875

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,

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                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         481251.50    3775263.98        0.01822                      481301.50
3775263.98        0.01770
         481351.50    3775263.98        0.01712                      481401.50
3775263.98        0.01663
         481451.50    3775263.98        0.01615                      480801.50
3775313.98        0.02114
         480851.50    3775313.98        0.02084                      480901.50
3775313.98        0.02044
         480951.50    3775313.98        0.02001                      481001.50
3775313.98        0.01950
         481051.50    3775313.98        0.01908                      481101.50
3775313.98        0.01857
         481151.50    3775313.98        0.01805                      481201.50
3775313.98        0.01758
         481251.50    3775313.98        0.01704                      481301.50
3775313.98        0.01659
         481351.50    3775313.98        0.01604                      481401.50
3775313.98        0.01559
         480801.50    3775363.98        0.01972                      480851.50
3775363.98        0.01942
         480901.50    3775363.98        0.01906                      480951.50
3775363.98        0.01859
         481001.50    3775363.98        0.01823                      481051.50
3775363.98        0.01782
         481101.50    3775363.98        0.01734                      481151.50
3775363.98        0.01696
         481201.50    3775363.98        0.01653                      481251.50
3775363.98        0.01605
         481301.50    3775363.98        0.01555                      481351.50
3775363.98        0.01515
         481401.50    3775363.98        0.01470                      480801.50
3775413.98        0.01845
         480851.50    3775413.98        0.01818                      480901.50
3775413.98        0.01780
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         480951.50    3775413.98        0.01739                       481001.50
3775413.98        0.01698
         481051.50    3775413.98        0.01664                       481101.50
3775413.98        0.01629
         481151.50    3775413.98        0.01587                       481201.50
3775413.98        0.01551
         481251.50    3775413.98        0.01511                       481301.50
3775413.98        0.01479
         481351.50    3775413.98        0.01433                       481401.50
3775413.98        0.01393
         480801.50    3775463.98        0.01732                       480851.50
3775463.98        0.01694
         480901.50    3775463.98        0.01666                       480951.50
3775463.98        0.01627
         481001.50    3775463.98        0.01599                       481051.50
3775463.98        0.01568
         481101.50    3775463.98        0.01530                       481151.50
3775463.98        0.01500
         481201.50    3775463.98        0.01460                       481251.50
3775463.98        0.01429
         481301.50    3775463.98        0.01398                       481351.50
3775463.98        0.01368
         481401.50    3775463.98        0.01329                       480801.50
3775513.98        0.01625
         480851.50    3775513.98        0.01590                       480901.50
3775513.98        0.01555
         480951.50    3775513.98        0.01533                       481001.50
3775513.98        0.01498
         481051.50    3775513.98        0.01473                       481101.50
3775513.98        0.01447
         481151.50    3775513.98        0.01411                       481201.50
3775513.98        0.01383
         481251.50    3775513.98        0.01351                       481301.50
3775513.98        0.01329
         481351.50    3775513.98        0.01301                       481401.50
3775513.98        0.01263
         480801.50    3775563.98        0.01518                       480851.50
3775563.98        0.01496
         480901.50    3775563.98        0.01470                       480951.50
3775563.98        0.01445
         481001.50    3775563.98        0.01418                       481051.50
3775563.98        0.01395
         481101.50    3775563.98        0.01365                       481151.50
3775563.98        0.01340
         481201.50    3775563.98        0.01310                       481251.50
3775563.98        0.01283
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:12:32
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3775563.98	0.01259	481351.50	3775563.98	0.01228
481401.50	3775563.98	0.01197	479332.46	3774240.22	0.01535
479382.46	3774240.22	0.01618	479432.46	3774240.22	0.01712
479482.46	3774240.22	0.01817	479532.46	3774240.22	0.01936
479582.46	3774240.22	0.02069	479632.46	3774240.22	0.02224
479682.46	3774240.22	0.02403	479732.46	3774240.22	0.02611
479782.46	3774240.22	0.02860	479832.46	3774240.22	0.03156
479882.46	3774240.22	0.03519	479932.46	3774240.22	0.03971
479332.46	3774290.22	0.01537	479382.46	3774290.22	0.01622
479432.46	3774290.22	0.01715	479482.46	3774290.22	0.01819
479532.46	3774290.22	0.01938	479582.46	3774290.22	0.02072
479632.46	3774290.22	0.02227	479682.46	3774290.22	0.02405
479732.46	3774290.22	0.02613	479782.46	3774290.22	0.02862
479832.46	3774290.22	0.03160	479882.46		

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3774290.22        0.03525
         479932.46    3774290.22        0.03981                        479332.46
3774340.22        0.01537
         479382.46    3774340.22        0.01621                        479432.46
3774340.22        0.01713
         479482.46    3774340.22        0.01817                        479532.46
3774340.22        0.01935
         479582.46    3774340.22        0.02068                        479632.46
3774340.22        0.02221
         479682.46    3774340.22        0.02398                        479732.46
3774340.22        0.02605
         479782.46    3774340.22        0.02849                        479832.46
3774340.22        0.03143
         479882.46    3774340.22        0.03504                        479932.46
3774340.22        0.03952
         479332.46    3774390.22        0.01534                        479382.46
3774390.22        0.01617
         479432.46    3774390.22        0.01708                        479482.46
3774390.22        0.01812
         479532.46    3774390.22        0.01927                        479582.46
3774390.22        0.02058
         479632.46    3774390.22        0.02208                        479682.46
3774390.22        0.02382
         479732.46    3774390.22        0.02583                        479782.46
3774390.22        0.02821
         479832.46    3774390.22        0.03107                        479882.46
3774390.22        0.03455
         479932.46    3774390.22        0.03887

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 327
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480415.97	3774200.25	106.28728	(13120208)	480386.35	3774201.62	100.04169	(13120208)
480364.52	3774200.25	89.11755	(13120208)	480441.34	3774196.20	110.64812	(12121008)
480332.65	3774203.34	77.32726	(13120208)	480281.98	3774208.10	59.12956	(13120208)
480259.39	3774210.95	52.38295	(13120208)	480179.23	3774215.23	42.25449	(14011308)
479777.13	3774155.68	16.15066	(14011308)	479903.88	3774153.05	18.84561	(14011308)
479888.73	3774072.72	15.92499	(13120208)	480286.74	3774147.78	51.13545	(13120208)
480415.64	3774088.13	35.48060	(12121008)	480408.03	3774009.17	22.79820	(12121008)
480445.38	3774004.65	23.90062	(12121008)	480447.28	3774028.67	27.13756	(12121008)
480276.83	3774266.75	74.22281	(14011308)	480151.33	3774266.75	45.90708	(14011308)
480135.30	3774266.75	43.67859	(14011308)	479301.50	3774413.98	7.24233	(14011308)
479351.50	3774413.98	7.64530	(14011308)	479401.50	3774413.98	8.03763	(14011308)
479451.50	3774413.98	8.48506	(14011308)	479501.50	3774413.98	8.98776	(14011308)
479551.50	3774413.98	9.50305	(14011308)	479601.50	3774413.98	10.13779	(14011308)
479651.50	3774413.98	10.77305	(14011308)	479701.50	3774413.98	11.55072	(14011308)
479751.50	3774413.98	12.33738	(14011308)	479801.50	3774413.98	13.21963	(14011308)
479851.50	3774413.98	14.31531	(14011308)	479901.50	3774413.98	15.45276	(14011308)
479951.50	3774413.98	16.86371	(14011308)	480001.50	3774413.98	18.33865	(14011308)
480051.50	3774413.98	20.14024	(14011308)	480101.50	3774413.98	22.22560	(14011308)
480151.50	3774413.98	24.60573	(14011308)	480201.50	3774413.98	27.66534	(14011308)
480251.50	3774413.98	31.07160	(14011308)	480301.50	3774413.98	35.73375	(12121008)
480351.50	3774413.98	52.03352	(12121008)	480401.50	3774413.98	83.05675	(12121008)
480451.50	3774413.98	127.86020	(12121008)	480501.50	3774413.98	150.90422	(12121008)

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        480551.50   3774413.98      152.82257  (12121008)                480601.50
3774413.98      146.89749  (12121008)
        480651.50   3774413.98      134.08807  (12121008)                480701.50
3774413.98      111.64037  (12121008)
        480751.50   3774413.98       72.81834  (12121008)                480801.50
3774413.98       45.89535  (12121008)
        480851.50   3774413.98       32.19454  (12121008)                480901.50
3774413.98       24.09282  (12121008)
        480951.50   3774413.98       18.83691  (12121008)                481001.50
3774413.98       15.20718  (12121008)
        481051.50   3774413.98       12.57885  (12121008)                481101.50
3774413.98       10.61198  (12121008)
        481151.50   3774413.98        9.09352  (12121008)                481201.50
3774413.98        9.55424  (12022008)
        481251.50   3774413.98       10.68201  (12022008)                481301.50
3774413.98       11.87307  (12022008)
        481351.50   3774413.98       13.77472  (12022008)                481401.50
3774413.98       13.57672  (12022008)
        481451.50   3774413.98       14.96514  (12022008)                479301.50
3774463.98        6.07487  (14011308)
        479351.50   3774463.98        6.36883  (14011308)                479401.50
3774463.98        6.64541  (14011308)
        479451.50   3774463.98        6.98161  (14011308)                479501.50
3774463.98        7.30331  (14011308)
        479551.50   3774463.98        7.67853  (14011308)                479601.50
3774463.98        8.06531  (14011308)
        479651.50   3774463.98        8.46492  (14011308)                479701.50
3774463.98        8.95051  (14011308)
        479751.50   3774463.98        9.41117  (14011308)                479801.50
3774463.98        9.97369  (14011308)
        479851.50   3774463.98       10.51121  (14011308)                479901.50
3774463.98       11.11163  (14011308)
        479951.50   3774463.98       11.77294  (14011308)                480001.50
3774463.98       12.40473  (14011308)
        480051.50   3774463.98       13.18534  (14011308)                480101.50
3774463.98       13.86139  (14011308)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:12:32

                                    PAGE 328
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
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, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        480151.50   3774463.98       15.08396  (12121008)                480201.50
3774463.98       18.45685  (12121008)
        480251.50   3774463.98       23.10307  (12121008)                480301.50
3774463.98       29.70224  (12121008)
        480351.50   3774463.98       39.03189  (12121008)                480401.50
3774463.98       51.51534  (12121008)
        480451.50   3774463.98       64.49191  (12121008)                480501.50
3774463.98       73.26349  (12121008)
        480551.50   3774463.98       76.34725  (12121008)                480601.50
3774463.98       74.78347  (12121008)
        480651.50   3774463.98       69.09831  (12121008)                480701.50
3774463.98       59.42309  (12121008)
        480751.50   3774463.98       47.00228  (12121008)                480801.50
3774463.98       35.63308  (12121008)
        480851.50   3774463.98       27.29969  (12121008)                480901.50
3774463.98       21.44539  (12121008)
        480951.50   3774463.98       17.27651  (12121008)                481001.50
3774463.98       14.22601  (12121008)
        481051.50   3774463.98       11.92982  (12121008)                481101.50
3774463.98       10.16594  (12121008)
        481151.50   3774463.98        8.77598  (12121008)                481201.50
3774463.98        9.33949  (12022008)
        481251.50   3774463.98       10.53025  (12022008)                481301.50
3774463.98       11.98992  (12022008)
        481351.50   3774463.98       14.59589  (12022008)                481401.50
3774463.98       14.78367  (12022008)
        481451.50   3774463.98       15.47870  (12022008)                481501.50
3774463.98       16.07281  (12022008)
        479301.50   3774513.98        4.92126  (14011308)                479351.50
3774513.98        5.10297  (14011308)
        479401.50   3774513.98        5.27412  (14011308)                479451.50
3774513.98        5.48527  (14011308)
        479501.50   3774513.98        5.67131  (14011308)                479551.50
3774513.98        5.89032  (14011308)
        479601.50   3774513.98        6.10018  (14011308)                479651.50
3774513.98        6.34583  (14011308)
        479701.50   3774513.98        6.55470  (14011308)                479751.50
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3774513.98        6.76298  (14011308)
        479801.50   3774513.98        7.02091  (14011308)                479851.50
3774513.98        7.22285  (14011308)
        479901.50   3774513.98        7.47252  (14011308)                479951.50
3774513.98        7.65277  (12121008)
        480001.50   3774513.98        8.73123  (12121008)                480051.50
3774513.98       10.05734  (12121008)
        480101.50   3774513.98       11.71116  (12121008)                480151.50
3774513.98       13.81552  (12121008)
        480201.50   3774513.98       16.50111  (12121008)                480251.50
3774513.98       19.96414  (12121008)
        480301.50   3774513.98       24.43541  (12121008)                480351.50
3774513.98       29.95983  (12121008)
        480401.50   3774513.98       36.27841  (12121008)                480451.50
3774513.98       42.25731  (12121008)
        480501.50   3774513.98       46.59383  (12121008)                480551.50
3774513.98       48.44671  (12121008)
        480601.50   3774513.98       47.81598  (12121008)                480651.50
3774513.98       44.86338  (12121008)
        480701.50   3774513.98       39.98186  (12121008)                480751.50
3774513.98       33.95715  (12121008)
        480801.50   3774513.98       27.96713  (12121008)                480851.50
3774513.98       22.83593  (12121008)
        480901.50   3774513.98       18.74475  (12121008)                480951.50
3774513.98       15.56831  (12121008)
        481001.50   3774513.98       13.09436  (12121008)                481051.50
3774513.98       11.15882  (12121008)
        481101.50   3774513.98        9.61850  (12121008)                481151.50
3774513.98        8.38010  (12121008)
        481201.50   3774513.98        9.28329  (12022008)                481251.50
3774513.98       10.77375  (12022008)
        481301.50   3774513.98       12.86513  (12022008)                481351.50
3774513.98       13.33161  (12022008)
        481401.50   3774513.98       15.35725  (12022008)                481451.50
3774513.98       14.69457  (12022008)
        481501.50   3774513.98       16.09075  (12022008)                481551.50
3774513.98       15.26363  (12022008)
        479301.50   3774563.98        3.84752  (14011308)                479351.50
3774563.98        3.94971  (14011308)
        479401.50   3774563.98        4.04274  (14011308)                479451.50
3774563.98        4.15067  (14011308)
        479501.50   3774563.98        4.23711  (14011308)                479551.50
3774563.98        4.34028  (14011308)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                PAGE 329
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479601.50	3774563.98	4.42795	(14011308)	479651.50	3774563.98	4.53176	(14011308)
479701.50	3774563.98	4.59911	(14011308)	479751.50	3774563.98	4.75495	(12121008)
479801.50	3774563.98	5.24522	(12121008)	479851.50	3774563.98	5.81537	(12121008)
479901.50	3774563.98	6.49100	(12121008)	479951.50	3774563.98	7.28771	(12121008)
480001.50	3774563.98	8.24571	(12121008)	480051.50	3774563.98	9.39776	(12121008)
480101.50	3774563.98	10.80488	(12121008)	480151.50	3774563.98	12.51596	(12121008)
480201.50	3774563.98	14.60976	(12121008)	480251.50	3774563.98	17.17159	(12121008)
480301.50	3774563.98	20.20678	(12121008)	480351.50	3774563.98	23.66890	(12121008)
480401.50	3774563.98	27.28065	(12121008)	480451.50	3774563.98	30.54652	(12121008)
480501.50	3774563.98	32.92936	(12121008)	480551.50	3774563.98	34.02802	(12121008)
480601.50	3774563.98	33.71282	(12121008)	480651.50	3774563.98	32.07292	(12121008)
480701.50	3774563.98	29.35474	(12121008)	480751.50	3774563.98	25.96969	(12121008)
480801.50	3774563.98	22.42871	(12121008)	480851.50	3774563.98	19.13021	(12121008)
480901.50	3774563.98	16.27060	(12121008)	480951.50	3774563.98	13.88686	(12121008)
481001.50	3774563.98	11.92935	(12121008)	481051.50	3774563.98	10.32989	(12121008)

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        481101.50   3774563.98        9.01504  (12121008)               481151.50
3774563.98        8.77673  (12022008)
        481201.50   3774563.98        8.51866  (12022008)               481251.50
3774563.98        9.69488  (12022008)
        481301.50   3774563.98       11.52799  (12022008)               481351.50
3774563.98       11.59762  (12022008)
        481401.50   3774563.98       13.01924  (14021008)               481451.50
3774563.98       15.19570  (14021008)
        481501.50   3774563.98       14.27007  (14021008)               481551.50
3774563.98       14.68923  (14021008)
        479301.50   3774613.98        2.93644  (14011308)               479351.50
3774613.98        2.97375  (14011308)
        479401.50   3774613.98        3.01958  (14011308)               479451.50
3774613.98        3.05432  (14011308)
        479501.50   3774613.98        3.08028  (14011308)               479551.50
3774613.98        3.29118  (12121008)
        479601.50   3774613.98        3.55801  (12121008)               479651.50
3774613.98        3.86219  (12121008)
        479701.50   3774613.98        4.20557  (12121008)               479751.50
3774613.98        4.60079  (12121008)
        479801.50   3774613.98        5.05231  (12121008)               479851.50
3774613.98        5.57646  (12121008)
        479901.50   3774613.98        6.18461  (12121008)               479951.50
3774613.98        6.89432  (12121008)
        480001.50   3774613.98        7.73336  (12121008)               480051.50
3774613.98        8.71816  (12121008)
        480101.50   3774613.98        9.89046  (12121008)               480151.50
3774613.98       11.26897  (12121008)
        480201.50   3774613.98       12.89199  (12121008)               480251.50
3774613.98       14.77433  (12121008)
        480301.50   3774613.98       16.89235  (12121008)               480351.50
3774613.98       19.15528  (12121008)
        480401.50   3774613.98       21.38783  (12121008)               480451.50
3774613.98       23.35028  (12121008)
        480501.50   3774613.98       24.75915  (12121008)               480551.50
3774613.98       25.42176  (12121008)
        480601.50   3774613.98       25.25046  (12121008)               480651.50
3774613.98       24.28195  (12121008)
        480701.50   3774613.98       22.65814  (12121008)               480751.50
3774613.98       20.59337  (12121008)
        480801.50   3774613.98       18.35201  (12121008)               480851.50
3774613.98       16.14314  (12121008)
        480901.50   3774613.98       14.11938  (12121008)               480951.50
3774613.98       12.33220  (12121008)
        481001.50   3774613.98       10.79933  (12121008)               481051.50
3774613.98        9.49373  (12121008)
        481101.50   3774613.98        8.39038  (12121008)               481151.50
3774613.98        7.45599  (12121008)
        481201.50   3774613.98        7.71006  (12022008)               481251.50
3774613.98        8.46787  (14021008)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3774613.98	9.65358	(14021008)	481351.50	3774613.98	11.30058	(14021008)
481401.50	3774613.98	12.63356	(14021008)	481451.50	3774613.98	13.81186	(14021008)
481501.50	3774613.98	14.87882	(14021008)	481551.50	3774613.98	15.03378	(14021008)
479301.50	3774663.98	2.28835	(12121008)	479351.50	3774663.98	2.43627	(12121008)
479401.50	3774663.98	2.60078	(12121008)	479451.50	3774663.98	2.78195	(12121008)
479501.50	3774663.98	2.98421	(12121008)	479551.50	3774663.98	3.20955	(12121008)
479601.50	3774663.98	3.46200	(12121008)	479651.50	3774663.98	3.74645	(12121008)
479701.50	3774663.98	4.06623	(12121008)	479751.50	3774663.98	4.43158	(12121008)
479801.50	3774663.98	4.84491	(12121008)	479851.50	3774663.98	5.32029	(12121008)
479901.50	3774663.98	5.86341	(12121008)	479951.50	3774663.98	6.48856	(12121008)
480001.50	3774663.98	7.21460	(12121008)	480051.50	3774663.98	8.05072	(12121008)
480101.50	3774663.98	9.01647	(12121008)	480151.50			

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3774663.98       10.12039  (12121008)
        480201.50   3774663.98       11.37969  (12121008)                480251.50
3774663.98       12.77265  (12121008)
        480301.50   3774663.98       14.27938  (12121008)                480351.50
3774663.98       15.81495  (12121008)
        480401.50   3774663.98       17.27922  (12121008)                480451.50
3774663.98       18.52514  (12121008)
        480501.50   3774663.98       19.41283  (12121008)                480551.50
3774663.98       19.82960  (12121008)
        480601.50   3774663.98       19.72800  (12121008)                480651.50
3774663.98       19.12561  (12121008)
        480701.50   3774663.98       18.09771  (12121008)                480751.50
3774663.98       16.76860  (12121008)
        480801.50   3774663.98       15.27768  (12121008)                480851.50
3774663.98       13.75258  (12121008)
        480901.50   3774663.98       12.28895  (12121008)                480951.50
3774663.98       10.94642  (12121008)
        481001.50   3774663.98        9.74525  (12121008)                481051.50
3774663.98        8.68858  (12121008)
        481101.50   3774663.98        7.76967  (12121008)                481151.50
3774663.98        7.00404  (14021008)
        481201.50   3774663.98        6.97147  (14021008)                481251.50
3774663.98        7.78290  (14021008)
        481301.50   3774663.98        8.07734  (14021008)                481351.50
3774663.98        9.57842  (14021008)
        481401.50   3774663.98       11.11274  (14021008)                481451.50
3774663.98       11.62529  (14021008)
        481501.50   3774663.98       13.08408  (14021008)                481551.50
3774663.98       13.56826  (14021008)
        479301.50   3774713.98        2.24605  (12121008)                479351.50
3774713.98        2.38810  (12121008)
        479401.50   3774713.98        2.54498  (12121008)                479451.50
3774713.98        2.71714  (12121008)
        479501.50   3774713.98        2.90930  (12121008)                479551.50
3774713.98        3.12105  (12121008)
        479601.50   3774713.98        3.35879  (12121008)                479651.50
3774713.98        3.62256  (12121008)
        479701.50   3774713.98        3.91988  (12121008)                479751.50
3774713.98        4.25329  (12121008)
        479801.50   3774713.98        4.62945  (12121008)                479851.50
3774713.98        5.05610  (12121008)
        479901.50   3774713.98        5.53744  (12121008)                479951.50
3774713.98        6.08718  (12121008)
        480001.50   3774713.98        6.70713  (12121008)                480051.50
3774713.98        7.41133  (12121008)
        480101.50   3774713.98        8.20443  (12121008)                480151.50
3774713.98        9.09142  (12121008)
        480201.50   3774713.98       10.06512  (12121008)                480251.50
3774713.98       11.11628  (12121008)
        480301.50   3774713.98       12.20420  (12121008)                480351.50
3774713.98       13.28341  (12121008)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480401.50	3774713.98	14.28126	(12121008)	480451.50	3774713.98	15.11260	(12121008)
480501.50	3774713.98	15.69578	(12121008)	480551.50	3774713.98	15.96995	(12121008)
480601.50	3774713.98	15.90568	(12121008)	480651.50	3774713.98	15.51310	(12121008)
480701.50	3774713.98	14.83266	(12121008)	480751.50	3774713.98	13.93963	(12121008)
480801.50	3774713.98	12.91100	(12121008)	480851.50	3774713.98	11.82717	(12121008)
480901.50	3774713.98	10.75114	(12121008)	480951.50	3774713.98	9.73069	(12121008)
481001.50	3774713.98	8.78817	(12121008)	481051.50	3774713.98	7.93509	(12121008)
481101.50	3774713.98	7.17463	(12121008)	481151.50	3774713.98	6.49849	(12121008)
481201.50	3774713.98	6.03381	(14021008)	481251.50	3774713.98	6.46995	(14021008)
481301.50	3774713.98	6.73842	(14021008)	481351.50	3774713.98	7.71637	(14021008)
481401.50	3774713.98	8.77102	(14021008)	481451.50	3774713.98	9.39161	(14021008)

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        481501.50   3774713.98       10.66637  (14021008)              479301.50
3774763.98        2.20028  (12121008)
        479351.50   3774763.98        2.33660  (12121008)              479401.50
3774763.98        2.48487  (12121008)
        479451.50   3774763.98        2.64832  (12121008)              479501.50
3774763.98        2.82886  (12121008)
        479551.50   3774763.98        3.02734  (12121008)              479601.50
3774763.98        3.24889  (12121008)
        479651.50   3774763.98        3.49309  (12121008)              479701.50
3774763.98        3.76631  (12121008)
        479751.50   3774763.98        4.07011  (12121008)              479801.50
3774763.98        4.41125  (12121008)
        479851.50   3774763.98        4.79041  (12121008)              479901.50
3774763.98        5.21462  (12121008)
        479951.50   3774763.98        5.69224  (12121008)              480001.50
3774763.98        6.22194  (12121008)
        480051.50   3774763.98        6.81418  (12121008)              480101.50
3774763.98        7.46364  (12121008)
        480151.50   3774763.98        8.17491  (12121008)              480201.50
3774763.98        8.93729  (12121008)
        480251.50   3774763.98        9.73522  (12121008)              480301.50
3774763.98       10.53996  (12121008)
        480351.50   3774763.98       11.31944  (12121008)              480401.50
3774763.98       12.02096  (12121008)
        480451.50   3774763.98       12.59660  (12121008)              480501.50
3774763.98       12.99590  (12121008)
        480551.50   3774763.98       13.18239  (12121008)              480601.50
3774763.98       13.14065  (12121008)
        480651.50   3774763.98       12.87223  (12121008)              480701.50
3774763.98       12.40728  (12121008)
        480751.50   3774763.98       11.78321  (12121008)              480801.50
3774763.98       11.05261  (12121008)
        480851.50   3774763.98       10.26495  (12121008)              480901.50
3774763.98        9.46065  (12121008)
        480951.50   3774763.98        8.67515  (12121008)              481001.50
3774763.98        7.93348  (12121008)
        481051.50   3774763.98        7.24305  (12121008)              481101.50
3774763.98        6.61393  (12121008)
        481151.50   3774763.98        6.04401  (12121008)              481201.50
3774763.98        5.53033  (12121008)
        481251.50   3774763.98        5.24366  (14021008)              481301.50
3774763.98        5.49421  (14021008)
        481351.50   3774763.98        5.96362  (14021008)              481401.50
3774763.98        6.57203  (14021008)
        481451.50   3774763.98        7.30883  (14021008)              481501.50
3774763.98        8.18530  (14021008)
        479301.50   3774813.98        2.15161  (12121008)              479351.50
3774813.98        2.28113  (12121008)
        479401.50   3774813.98        2.42144  (12121008)              479451.50
3774813.98        2.57597  (12121008)
        479501.50   3774813.98        2.74479  (12121008)              479551.50
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3774813.98 2.93101 (12121008)
  479601.50 3774813.98 3.13539 (12121008) 479651.50
3774813.98 3.36037 (12121008)
  479701.50 3774813.98 3.61043 (12121008) 479751.50
3774813.98 3.88550 (12121008)
  479801.50 3774813.98 4.19182 (12121008) 479851.50
3774813.98 4.52857 (12121008)
  479901.50 3774813.98 4.90181 (12121008) 479951.50
3774813.98 5.31420 (12121008)
  480001.50 3774813.98 5.76561 (12121008) 480051.50
3774813.98 6.26182 (12121008)
  480101.50 3774813.98 6.79565 (12121008) 480151.50
3774813.98 7.36845 (12121008)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480201.50	3774813.98	7.96920	(12121008)	480251.50	3774813.98	8.58372	(12121008)
480301.50	3774813.98	9.18980	(12121008)	480351.50	3774813.98	9.76498	(12121008)
480401.50	3774813.98	10.27307	(12121008)	480451.50	3774813.98	10.68430	(12121008)
480501.50	3774813.98	10.96651	(12121008)	480551.50	3774813.98	11.09805	(12121008)
480601.50	3774813.98	11.06809	(12121008)	480651.50			

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3774813.98       10.88025  (12121008)
        480701.50   3774813.98       10.54899  (12121008)                480751.50
3774813.98       10.10286  (12121008)
        480801.50   3774813.98        9.57095  (12121008)                480851.50
3774813.98        8.98289  (12121008)
        480901.50   3774813.98        8.37450  (12121008)                480951.50
3774813.98        7.76425  (12121008)
        481001.50   3774813.98        7.17241  (12121008)                481051.50
3774813.98        6.61378  (12121008)
        481101.50   3774813.98        6.09277  (12121008)                481151.50
3774813.98        5.61245  (12121008)
        481201.50   3774813.98        5.17422  (12121008)                481251.50
3774813.98        4.77444  (12121008)
        481301.50   3774813.98        4.41388  (12121008)                481351.50
3774813.98        4.41190  (14021008)
        481401.50   3774813.98        4.74964  (14021008)                481451.50
3774813.98        5.24845  (14021008)
        481501.50   3774813.98        5.79833  (14021008)                479301.50
3774863.98        2.10060  (12121008)
        479351.50   3774863.98        2.22321  (12121008)                479401.50
3774863.98        2.35549  (12121008)
        479451.50   3774863.98        2.50084  (12121008)                479501.50
3774863.98        2.65830  (12121008)
        479551.50   3774863.98        2.83162  (12121008)                479601.50
3774863.98        3.01996  (12121008)
        479651.50   3774863.98        3.22634  (12121008)                479701.50
3774863.98        3.45415  (12121008)
        479751.50   3774863.98        3.70228  (12121008)                479801.50
3774863.98        3.97627  (12121008)
        479851.50   3774863.98        4.27430  (12121008)                479901.50
3774863.98        4.60085  (12121008)
        479951.50   3774863.98        4.95704  (12121008)                480001.50
3774863.98        5.34324  (12121008)
        480051.50   3774863.98        5.75746  (12121008)                480101.50
3774863.98        6.19749  (12121008)
        480151.50   3774863.98        6.66134  (12121008)                480201.50
3774863.98        7.13855  (12121008)
        480251.50   3774863.98        7.61809  (12121008)                480301.50
3774863.98        8.08211  (12121008)
        480351.50   3774863.98        8.51515  (12121008)                480401.50
3774863.98        8.89228  (12121008)
        480451.50   3774863.98        9.19347  (12121008)                480501.50
3774863.98        9.39865  (12121008)
        480551.50   3774863.98        9.49402  (12121008)                480601.50
3774863.98        9.47227  (12121008)
        480651.50   3774863.98        9.33639  (12121008)                480701.50
3774863.98        9.09272  (12121008)
        480751.50   3774863.98        8.76617  (12121008)                480801.50
3774863.98        8.37044  (12121008)
        480851.50   3774863.98        7.92549  (12121008)                480901.50
3774863.98        7.45603  (12121008)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479701.50	3774913.98	3.29939	(12121008)	479751.50	3774913.98	3.52268	(12121008)

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        479801.50   3774913.98        3.76705  (12121008)              479851.50
3774913.98        4.03021  (12121008)
        479901.50   3774913.98        4.31543  (12121008)              479951.50
3774913.98        4.62284  (12121008)
        480001.50   3774913.98        4.95185  (12121008)              480051.50
3774913.98        5.29979  (12121008)
        480101.50   3774913.98        5.66405  (12121008)              480151.50
3774913.98        6.04251  (12121008)
        480201.50   3774913.98        6.42387  (12121008)              480251.50
3774913.98        6.80305  (12121008)
        480301.50   3774913.98        7.16365  (12121008)              480351.50
3774913.98        7.49557  (12121008)
        480401.50   3774913.98        7.78151  (12121008)              480451.50
3774913.98        8.00693  (12121008)
        480501.50   3774913.98        8.15950  (12121008)              480551.50
3774913.98        8.23060  (12121008)
        480601.50   3774913.98        8.21466  (12121008)              480651.50
3774913.98        8.11316  (12121008)
        480701.50   3774913.98        7.93216  (12121008)              480751.50
3774913.98        7.68556  (12121008)
        480801.50   3774913.98        7.38437  (12121008)              480851.50
3774913.98        7.04318  (12121008)
        480901.50   3774913.98        6.67528  (12121008)              480951.50
3774913.98        6.29514  (12121008)
        481001.50   3774913.98        5.91393  (12121008)              481051.50
3774913.98        5.53954  (12121008)
        481101.50   3774913.98        5.17852  (12121008)              481151.50
3774913.98        4.83839  (12121008)
        481201.50   3774913.98        4.51557  (12121008)              481251.50
3774913.98        4.21614  (12121008)
        481301.50   3774913.98        3.93746  (12121008)              481351.50
3774913.98        3.67898  (12121008)
        481401.50   3774913.98        3.44054  (12121008)              481451.50
3774913.98        3.22105  (12121008)
        481501.50   3774913.98        3.02006  (12121008)              479301.50
3774963.98        1.99370  (12121008)
        479351.50   3774963.98        2.10254  (12121008)              479401.50
3774963.98        2.21899  (12121008)
        479451.50   3774963.98        2.34581  (12121008)              479501.50
3774963.98        2.48181  (12121008)
        479551.50   3774963.98        2.62991  (12121008)              479601.50
3774963.98        2.78889  (12121008)
        479651.50   3774963.98        2.96081  (12121008)              479701.50
3774963.98        3.14789  (12121008)
        479751.50   3774963.98        3.34896  (12121008)              479801.50
3774963.98        3.56590  (12121008)
        479851.50   3774963.98        3.79794  (12121008)              479901.50
3774963.98        4.04690  (12121008)
        479951.50   3774963.98        4.31229  (12121008)              480001.50
3774963.98        4.59298  (12121008)
        480051.50   3774963.98        4.88608  (12121008)              480101.50
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3774963.98        5.18890  (12121008)
        480151.50   3774963.98        5.49936  (12121008)                480201.50
3774963.98        5.80780  (12121008)
        480251.50   3774963.98        6.11046  (12121008)                480301.50
3774963.98        6.39454  (12121008)
        480351.50   3774963.98        6.65305  (12121008)                480401.50
3774963.98        6.87349  (12121008)
        480451.50   3774963.98        7.04585  (12121008)                480501.50
3774963.98        7.16183  (12121008)
        480551.50   3774963.98        7.21496  (12121008)                480601.50
3774963.98        7.20384  (12121008)
        480651.50   3774963.98        7.12697  (12121008)                480701.50
3774963.98        6.98914  (12121008)
        480751.50   3774963.98        6.79922  (12121008)                480801.50
3774963.98        6.56720  (12121008)
        480851.50   3774963.98        6.30033  (12121008)                480901.50
3774963.98        6.00760  (12121008)
        480951.50   3774963.98        5.70222  (12121008)                481001.50
3774963.98        5.39186  (12121008)
        481051.50   3774963.98        5.08298  (12121008)                481101.50
3774963.98        4.78323  (12121008)
        481151.50   3774963.98        4.49315  (12121008)                481201.50
3774963.98        4.21824  (12121008)
        481251.50   3774963.98        3.95747  (12121008)                481301.50
3774963.98        3.71287  (12121008)
        481351.50   3774963.98        3.48433  (12121008)                481401.50
3774963.98        3.27173  (12121008)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:12:32

                                    PAGE 334
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481451.50	3774963.98	3.07444	(12121008)	480801.50	3775013.98	5.88034	(12121008)
480851.50	3775013.98	5.66781	(12121008)	480901.50	3775013.98	5.43425	(12121008)
480951.50	3775013.98	5.18740	(12121008)	481001.50	3775013.98	4.93305	(12121008)
481051.50	3775013.98	4.67663	(12121008)	481101.50	3775013.98	4.42347	(12121008)
481151.50	3775013.98	4.17883	(12121008)	481201.50	3775013.98	3.94136	(12121008)
481251.50	3775013.98	3.71472	(12121008)	481301.50	3775013.98	3.49999	(12121008)
481351.50	3775013.98	3.29743	(12121008)	481401.50	3775013.98	3.10889	(12121008)
481451.50	3775013.98	2.93186	(12121008)	480801.50	3775063.98	5.29836	(12121008)
480851.50	3775063.98	5.12764	(12121008)	480901.50	3775063.98	4.93836	(12121008)
480951.50	3775063.98	4.73615	(12121008)	481001.50	3775063.98	4.52611	(12121008)
481051.50	3775063.98	4.31242	(12121008)	481101.50	3775063.98	4.09947	(12121008)
481151.50	3775063.98	3.89005	(12121008)	481201.50	3775063.98	3.68621	(12121008)
481251.50	3775063.98	3.48811	(12121008)	481301.50	3775063.98	3.29932	(12121008)
481351.50	3775063.98	3.11997	(12121008)	481401.50	3775063.98	2.95055	(12121008)
481451.50	3775063.98	2.79396	(12121008)	480801.50	3775113.98	4.80156	(12121008)
480851.50	3775113.98	4.66235	(12121008)	480901.50	3775113.98	4.50709	(12121008)
480951.50	3775113.98	4.34040	(12121008)	481001.50	3775113.98	4.16561	(12121008)
481051.50	3775113.98	3.98580	(12121008)	481101.50	3775113.98	3.80482	(12121008)
481151.50	3775113.98	3.62519	(12121008)	481201.50	3775113.98	3.44879	(12121008)
481251.50	3775113.98	3.27655	(12121008)	481301.50	3775113.98	3.11059	(12121008)
481351.50	3775113.98	2.95233	(12121008)	481401.50	3775113.98	2.80155	(12121008)
481451.50	3775113.98	2.66068	(12121008)	480801.50	3775163.98	4.37361	(12121008)
480851.50	3775163.98	4.25923	(12121008)	480901.50	3775163.98	4.13050	(12121008)

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        480951.50   3775163.98        3.99189  (12121008)               481001.50
3775163.98        3.84494  (12121008)
        481051.50   3775163.98        3.69275  (12121008)               481101.50
3775163.98        3.53819  (12121008)
        481151.50   3775163.98        3.38262  (12121008)               481201.50
3775163.98        3.23031  (12121008)
        481251.50   3775163.98        3.07970  (12121008)               481301.50
3775163.98        2.93417  (12121008)
        481351.50   3775163.98        2.79428  (12121008)               481401.50
3775163.98        2.65980  (12121008)
        481451.50   3775163.98        2.53226  (12121008)               480801.50
3775213.98        4.00154  (12121008)
        480851.50   3775213.98        3.90636  (12121008)               480901.50
3775213.98        3.79935  (12121008)
        480951.50   3775213.98        3.68275  (12121008)               481001.50
3775213.98        3.55904  (12121008)
        481051.50   3775213.98        3.43014  (12121008)               481101.50
3775213.98        3.29675  (12121008)
        481151.50   3775213.98        3.16260  (12121008)               481201.50
3775213.98        3.02955  (12121008)
        481251.50   3775213.98        2.89677  (12121008)               481301.50
3775213.98        2.76963  (12121008)
        481351.50   3775213.98        2.64572  (12121008)               481401.50
3775213.98        2.52392  (12121008)
        481451.50   3775213.98        2.40805  (12121008)               480801.50
3775263.98        3.67648  (12121008)
        480851.50   3775263.98        3.59692  (12121008)               480901.50
3775263.98        3.50676  (12121008)
        480951.50   3775263.98        3.40797  (12121008)               481001.50
3775263.98        3.30353  (12121008)
        481051.50   3775263.98        3.19177  (12121008)               481101.50
3775263.98        3.07717  (12121008)
        481151.50   3775263.98        2.96098  (12121008)               481201.50
3775263.98        2.84359  (12121008)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:12:32

                                   PAGE 335
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
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, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481251.50	3775263.98	2.72838	(12121008)	481301.50	3775263.98	2.61549	(12121008)
481351.50	3775263.98	2.50322	(12121008)	481401.50	3775263.98	2.39664	(12121008)
481451.50	3775263.98	2.29371	(12121008)	480801.50	3775313.98	3.39165	(12121008)
480851.50	3775313.98	3.32435	(12121008)	480901.50	3775313.98	3.24724	(12121008)
480951.50	3775313.98	3.16288	(12121008)	481001.50	3775313.98	3.07151	(12121008)
481051.50	3775313.98	2.97672	(12121008)	481101.50	3775313.98	2.87733	(12121008)
481151.50	3775313.98	2.77557	(12121008)	481201.50	3775313.98	2.67407	(12121008)
481251.50	3775313.98	2.57093	(12121008)	481301.50	3775313.98	2.47111	(12121008)
481351.50	3775313.98	2.37007	(12121008)	481401.50	3775313.98	2.27403	(12121008)
480801.50	3775363.98	3.13898	(12121008)	480851.50	3775363.98	3.08152	(12121008)
480901.50	3775363.98	3.01595	(12121008)	480951.50	3775363.98	2.94248	(12121008)
481001.50	3775363.98	2.86491	(12121008)	481051.50	3775363.98	2.78233	(12121008)
481101.50	3775363.98	2.69509	(12121008)	481151.50	3775363.98	2.60766	(12121008)
481201.50	3775363.98	2.51838	(12121008)	481251.50	3775363.98	2.42702	(12121008)
481301.50	3775363.98	2.33516	(12121008)	481351.50	3775363.98	2.24789	(12121008)
481401.50	3775363.98	2.16001	(12121008)	480801.50	3775413.98	2.91464	(12121008)
480851.50	3775413.98	2.86568	(12121008)	480901.50	3775413.98	2.80872	(12121008)
480951.50	3775413.98	2.74515	(12121008)	481001.50	3775413.98	2.67605	(12121008)
481051.50	3775413.98	2.60449	(12121008)	481101.50	3775413.98	2.52985	(12121008)
481151.50	3775413.98	2.45086	(12121008)	481201.50			

3775413.98 2.37249 (12121008)
  481251.50 3775413.98 2.29215 (12121008) 481301.50
3775413.98 2.21466 (12121008)
  481351.50 3775413.98 2.13295 (12121008) 481401.50
3775413.98 2.05402 (12121008)
  480801.50 3775463.98 2.71473 (12121008) 480851.50
3775463.98 2.67091 (12121008)
  480901.50 3775463.98 2.62210 (12121008) 480951.50
3775463.98 2.56607 (12121008)
  481001.50 3775463.98 2.50758 (12121008) 481051.50
3775463.98 2.44487 (12121008)
  481101.50 3775463.98 2.37754 (12121008) 481151.50
3775463.98 2.30994 (12121008)
  481201.50 3775463.98 2.23814 (12121008) 481251.50
3775463.98 2.16828 (12121008)
  481301.50 3775463.98 2.09831 (12121008) 481351.50
3775463.98 2.02936 (12121008)
  481401.50 3775463.98 1.95700 (12121008) 480801.50
3775513.98 2.53501 (12121008)
  480851.50 3775513.98 2.49661 (12121008) 480901.50
3775513.98 2.45225 (12121008)
  480951.50 3775513.98 2.40539 (12121008) 481001.50
3775513.98 2.35173 (12121008)
  481051.50 3775513.98 2.29714 (12121008) 481101.50
3775513.98 2.23975 (12121008)
  481151.50 3775513.98 2.17709 (12121008) 481201.50
3775513.98 2.11591 (12121008)
  481251.50 3775513.98 2.05182 (12121008) 481301.50
3775513.98 1.99178 (12121008)
  481351.50 3775513.98 1.92948 (12121008) 481401.50
3775513.98 1.86256 (12121008)
  480801.50 3775563.98 2.37167 (12121008) 480851.50
3775563.98 2.33912 (12121008)
  480901.50 3775563.98 2.30103 (12121008) 480951.50
3775563.98 2.25898 (12121008)
  481001.50 3775563.98 2.21260 (12121008) 481051.50
3775563.98 2.16420 (12121008)
  481101.50 3775563.98 2.11143 (12121008) 481151.50
3775563.98 2.05802 (12121008)
  481201.50 3775563.98 2.00174 (12121008) 481251.50
3775563.98 1.94499 (12121008)

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3775563.98	1.88928	(12121008)	481351.50	3775563.98	1.82952	(12121008)
481401.50	3775563.98	1.76982	(12121008)	479332.46	3774240.22	10.09935	(14011308)
479382.46	3774240.22	10.68697	(14011308)	479432.46	3774240.22	11.39275	(14011308)
479482.46	3774240.22	12.10633	(14011308)	479532.46	3774240.22	12.98366	(14011308)
479582.46	3774240.22	13.87476	(14011308)	479632.46	3774240.22	14.91670	(14011308)
479682.46	3774240.22	16.11344	(14011308)	479732.46	3774240.22	17.39944	(14011308)
479782.46	3774240.22	19.01681	(14011308)	479832.46	3774240.22	20.72275	(14011308)
479882.46	3774240.22	22.69546	(14011308)	479932.46	3774240.22	24.99571	(14011308)
479332.46	3774290.22	9.75503	(14011308)	479382.46	3774290.22	10.39132	(14011308)
479432.46	3774290.22	11.03059	(14011308)	479482.46	3774290.22	11.74333	(14011308)
479532.46	3774290.22	12.61121	(14011308)	479582.46	3774290.22	13.50364	(14011308)
479632.46	3774290.22	14.61091	(14011308)	479682.46	3774290.22	15.76289	(14011308)
479732.46	3774290.22	17.08984	(14011308)	479782.46	3774290.22	18.72555	(14011308)
479832.46	3774290.22	20.51380	(14011308)	479882.46	3774290.22	22.59425	(14011308)
479932.46	3774290.22	25.18188	(14011308)	479332.46	3774340.22	9.02983	(14011308)
479382.46	3774340.22	9.60555	(14011308)	479432.46	3774340.22	10.18132	(14011308)

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        479482.46   3774340.22       10.84732  (14011308)                479532.46
3774340.22       11.60226  (14011308)
        479582.46   3774340.22       12.40063  (14011308)                479632.46
3774340.22       13.39136  (14011308)
        479682.46   3774340.22       14.42382  (14011308)                479732.46
3774340.22       15.69424  (14011308)
        479782.46   3774340.22       17.03834  (14011308)                479832.46
3774340.22       18.61971  (14011308)
        479882.46   3774340.22       20.55642  (14011308)                479932.46
3774340.22       22.81870  (14011308)
        479332.46   3774390.22        8.03248  (14011308)                479382.46
3774390.22        8.49052  (14011308)
        479432.46   3774390.22        8.96156  (14011308)                479482.46
3774390.22        9.53865  (14011308)
        479532.46   3774390.22       10.11387  (14011308)                479582.46
3774390.22       10.80398  (14011308)
        479632.46   3774390.22       11.53621  (14011308)                479682.46
3774390.22       12.42038  (14011308)
        479732.46   3774390.22       13.32658  (14011308)                479782.46
3774390.22       14.34848  (14011308)
        479832.46   3774390.22       15.57350  (14011308)                479882.46
3774390.22       16.98082  (14011308)
        479932.46   3774390.22       18.60288  (14011308)

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:12:32

                                   PAGE 337
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                  L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
                  L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                  L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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3774413.98   38.25620 (12121008)
        480851.50   3774413.98   28.83148 (12121008)   480901.50
3774413.98   24.42443 (12121008)
        480951.50   3774413.98   22.02631 (12121008)   481001.50
3774413.98   20.56715 (12121008)
        481051.50   3774413.98   19.60009 (12121008)   481101.50
3774413.98   18.89507 (12121008)
        481151.50   3774413.98   18.34269 (12121008)   481201.50
3774413.98   17.86169 (12121008)
        481251.50   3774413.98   17.40173 (12121008)   481301.50
3774413.98   16.92053 (12121008)
        481351.50   3774413.98   16.37952 (12121008)   481401.50
3774413.98   15.74182 (12121008)
        481451.50   3774413.98   14.98007 (12121008)   479301.50
3774463.98   2.57588 (14011308)
        479351.50   3774463.98   2.64384 (14011308)   479401.50
3774463.98   2.69978 (14011308)
        479451.50   3774463.98   2.77113 (14011308)   479501.50
3774463.98   2.83084 (14011308)
        479551.50   3774463.98   2.90182 (14011308)   479601.50
3774463.98   2.96904 (14011308)
        479651.50   3774463.98   3.03270 (14011308)   479701.50
3774463.98   3.11421 (14011308)
        479751.50   3774463.98   3.17954 (14011308)   479801.50
3774463.98   3.26470 (14011308)
        479851.50   3774463.98   3.33383 (14011308)   479901.50
3774463.98   3.41093 (14011308)
        479951.50   3774463.98   3.49486 (14011308)   480001.50
3774463.98   3.56547 (14011308)
        480051.50   3774463.98   3.71667 (12121008)   480101.50
3774463.98   4.07006 (12121008)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE ***
                                   INCLUDING SOURCE(S):   L0008653   , L0008654
, L0008655   , L0008656   , L0008657   ,
                  L0008658   , L0008659   , L0008660   , L0008661   , L0008662
, L0008663   , L0008573   , L0008574   ,
                  L0008575   , L0008576   , L0008577   , L0008578   , L0008579
, L0008580   , L0008581   , L0008582   ,
                  L0008583   , L0008584   , L0008585   , L0008586   , L0008587
, L0008588   , L0008589   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480151.50	3774463.98	4.48379	(12121008)	480201.50	3774463.98	4.96827	(12121008)
480251.50	3774463.98	5.54216	(12121008)	480301.50	3774463.98	6.23573	(12121008)
480351.50	3774463.98	7.07367	(12121008)	480401.50	3774463.98	8.11452	(12121008)
480451.50	3774463.98	9.41073	(12121008)	480501.50	3774463.98	11.06864	(12121008)
480551.50	3774463.98	13.22939	(12121008)	480601.50	3774463.98	16.09380	(12121008)
480651.50	3774463.98	19.85236	(12121008)	480701.50	3774463.98	24.21963	(12121008)
480751.50	3774463.98	26.55309	(12121008)	480801.50	3774463.98	24.72181	(12121008)
480851.50	3774463.98	21.88432	(12121008)	480901.50	3774463.98	19.73975	(12121008)
480951.50	3774463.98	18.27537	(12121008)	481001.50	3774463.98	17.26019	(12121008)
481051.50	3774463.98	16.52717	(12121008)	481101.50	3774463.98	15.95515	(12121008)
481151.50	3774463.98	15.48313	(12121008)	481201.50	3774463.98	15.05527	(12121008)
481251.50	3774463.98	14.63643	(12121008)	481301.50	3774463.98	14.19800	(12121008)
481351.50	3774463.98	13.71468	(12121008)	481401.50	3774463.98	13.16412	(12121008)
481451.50	3774463.98	12.53204	(12121008)	481501.50	3774463.98	12.00000	(12022008)
479301.50	3774513.98	2.08354	(14011308)	479351.50	3774513.98	2.12125	(14011308)
479401.50	3774513.98	2.15228	(14011308)	479451.50	3774513.98	2.19481	(14011308)
479501.50	3774513.98	2.22553	(14011308)	479551.50	3774513.98	2.26478	(14011308)
479601.50	3774513.98	2.29820	(14011308)	479651.50	3774513.98	2.34068	(14011308)
479701.50	3774513.98	2.36922	(14011308)	479751.50	3774513.98	2.39642	(14011308)
479801.50	3774513.98	2.46708	(12121008)	479851.50	3774513.98	2.64340	(12121008)
479901.50	3774513.98	2.84267	(12121008)	479951.50	3774513.98	3.06511	(12121008)

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        480001.50   3774513.98        3.31836  (12121008)               480051.50
3774513.98        3.60562  (12121008)
        480101.50   3774513.98        3.93389  (12121008)               480151.50
3774513.98        4.31490  (12121008)
        480201.50   3774513.98        4.75483  (12121008)               480251.50
3774513.98        5.26918  (12121008)
        480301.50   3774513.98        5.88010  (12121008)               480351.50
3774513.98        6.60160  (12121008)
        480401.50   3774513.98        7.47287  (12121008)               480451.50
3774513.98        8.51751  (12121008)
        480501.50   3774513.98        9.79273  (12121008)               480551.50
3774513.98       11.32515  (12121008)
        480601.50   3774513.98       13.15242  (12121008)               480651.50
3774513.98       15.17487  (12121008)
        480701.50   3774513.98       17.04387  (12121008)               480751.50
3774513.98       18.06130  (12121008)
        480801.50   3774513.98       17.88925  (12121008)               480851.50
3774513.98       17.03670  (12121008)
        480901.50   3774513.98       16.08963  (12121008)               480951.50
3774513.98       15.27312  (12121008)
        481001.50   3774513.98       14.61881  (12121008)               481051.50
3774513.98       14.08838  (12121008)
        481101.50   3774513.98       13.64614  (12121008)               481151.50
3774513.98       13.25378  (12121008)
        481201.50   3774513.98       12.88626  (12121008)               481251.50
3774513.98       12.51779  (12121008)
        481301.50   3774513.98       12.13068  (12121008)               481351.50
3774513.98       11.70879  (12121008)
        481401.50   3774513.98       11.23893  (12121008)               481451.50
3774513.98       10.71510  (12121008)
        481501.50   3774513.98       10.40744  (14021008)               481551.50
3774513.98        9.83140  (14021008)
        479301.50   3774563.98        1.65551  (14011308)               479351.50
3774563.98        1.67519  (14011308)
        479401.50   3774563.98        1.69060  (14011308)               479451.50
3774563.98        1.71083  (14011308)
        479501.50   3774563.98        1.72285  (14011308)               479551.50
3774563.98        1.78612  (12121008)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:12:32

                                   PAGE 339
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                L0008658    , L0008659    , L0008660    , L0008661    , L0008662
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, L0008663    , L0008573    , L0008574    ,
                L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        479601.50   3774563.98        1.88923  (12121008)                479651.50
3774563.98        2.00298  (12121008)
        479701.50   3774563.98        2.12679  (12121008)                479751.50
3774563.98        2.26377  (12121008)
        479801.50   3774563.98        2.41563  (12121008)                479851.50
3774563.98        2.58332  (12121008)
        479901.50   3774563.98        2.77194  (12121008)                479951.50
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        480001.50   3774563.98        3.21832  (12121008)                480051.50
3774563.98        3.48483  (12121008)
        480101.50   3774563.98        3.78933  (12121008)                480151.50
3774563.98        4.13415  (12121008)
        480201.50   3774563.98        4.52945  (12121008)                480251.50
3774563.98        4.98857  (12121008)
        480301.50   3774563.98        5.51639  (12121008)                480351.50
3774563.98        6.13228  (12121008)
        480401.50   3774563.98        6.84942  (12121008)                480451.50
3774563.98        7.68242  (12121008)
        480501.50   3774563.98        8.64972  (12121008)                480551.50
3774563.98        9.74977  (12121008)
        480601.50   3774563.98       10.94350  (12121008)                480651.50
3774563.98       12.14916  (12121008)
        480701.50   3774563.98       13.17920  (12121008)                480751.50
3774563.98       13.81104  (12121008)
        480801.50   3774563.98       13.95088  (12121008)                480851.50
3774563.98       13.72212  (12121008)
        480901.50   3774563.98       13.32414  (12121008)                480951.50
3774563.98       12.89237  (12121008)
        481001.50   3774563.98       12.48688  (12121008)                481051.50
3774563.98       12.11928  (12121008)
        481101.50   3774563.98       11.78532  (12121008)                481151.50
3774563.98       11.47049  (12121008)
        481201.50   3774563.98       11.16034  (12121008)                481251.50
3774563.98       10.84406  (12121008)
        481301.50   3774563.98       10.50896  (12121008)                481351.50
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3774563.98 10.14630 (12121008)
  481401.50 3774563.98 9.74814 (12121008) 481451.50
3774563.98 9.31082 (14021008)
  481501.50 3774563.98 8.95602 (14021008) 481551.50
3774563.98 8.95021 (14021008)
  479301.50 3774613.98 1.36717 (12121008) 479351.50
3774613.98 1.43328 (12121008)
  479401.50 3774613.98 1.50514 (12121008) 479451.50
3774613.98 1.58252 (12121008)
  479501.50 3774613.98 1.66620 (12121008) 479551.50
3774613.98 1.75796 (12121008)
  479601.50 3774613.98 1.85702 (12121008) 479651.50
3774613.98 1.96627 (12121008)
  479701.50 3774613.98 2.08480 (12121008) 479751.50
3774613.98 2.21617 (12121008)
  479801.50 3774613.98 2.35975 (12121008) 479851.50
3774613.98 2.51934 (12121008)
  479901.50 3774613.98 2.69582 (12121008) 479951.50
3774613.98 2.89172 (12121008)
  480001.50 3774613.98 3.11220 (12121008) 480051.50
3774613.98 3.35740 (12121008)
  480101.50 3774613.98 3.63544 (12121008) 480151.50
3774613.98 3.94686 (12121008)
  480201.50 3774613.98 4.30039 (12121008) 480251.50
3774613.98 4.70258 (12121008)
  480301.50 3774613.98 5.16002 (12121008) 480351.50
3774613.98 5.67893 (12121008)
  480401.50 3774613.98 6.26610 (12121008) 480451.50
3774613.98 6.93143 (12121008)
  480501.50 3774613.98 7.66753 (12121008) 480551.50
3774613.98 8.46536 (12121008)
  480601.50 3774613.98 9.28657 (12121008) 480651.50
3774613.98 10.07776 (12121008)
  480701.50 3774613.98 10.73808 (12121008) 480751.50
3774613.98 11.18833 (12121008)
  480801.50 3774613.98 11.38757 (12121008) 480851.50
3774613.98 11.37602 (12121008)
  480901.50 3774613.98 11.22502 (12121008) 480951.50
3774613.98 11.00657 (12121008)
  481001.50 3774613.98 10.76179 (12121008) 481051.50
3774613.98 10.51296 (12121008)
  481101.50 3774613.98 10.26441 (12121008) 481151.50
3774613.98 10.01509 (12121008)
  481201.50 3774613.98 9.75927 (12121008) 481251.50
3774613.98 9.49151 (12121008)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0008653 , L0008654 , L0008655 , L0008656 , L0008657 ,
L0008658 , L0008659 , L0008660 , L0008661 , L0008662 , L0008663 , L0008573 , L0008574 ,
L0008575 , L0008576 , L0008577 , L0008578 , L0008579 , L0008580 , L0008581 , L0008582 ,
L0008583 , L0008584 , L0008585 , L0008586 , L0008587 , L0008588 , L0008589 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3774613.98	9.20559	(12121008)	481351.50	3774613.98	8.89583	(12121008)
481401.50	3774613.98	8.55912	(12121008)	481451.50	3774613.98	8.19400	(12121008)
481501.50	3774613.98	7.95494	(14021008)	481551.50	3774613.98	7.86582	(14021008)
479301.50	3774663.98	1.34968	(12121008)	479351.50	3774663.98	1.41383	(12121008)
479401.50	3774663.98	1.48355	(12121008)	479451.50	3774663.98	1.55823	(12121008)
479501.50	3774663.98	1.63943	(12121008)	479551.50	3774663.98	1.72725	(12121008)
479601.50	3774663.98	1.82267	(12121008)	479651.50	3774663.98	1.92680	(12121008)
479701.50	3774663.98	2.03979	(12121008)	479751.50	3774663.98	2.16462	(12121008)
479801.50	3774663.98	2.30037	(12121008)	479851.50	3774663.98	2.45082	(12121008)
479901.50	3774663.98	2.61569	(12121008)	479951.50	3774663.98	2.79790	(12121008)
480001.50	3774663.98	3.00152	(12121008)	480051.50	3774663.98	3.22688	(12121008)
480101.50	3774663.98	3.47844	(12121008)	480151.50	3774663.98	3.75794	(12121008)
480201.50	3774663.98	4.07285	(12121008)	480251.50	3774663.98	4.42257	(12121008)
480301.50	3774663.98	4.81591	(12121008)	480351.50	3774663.98	5.25112	(12121008)

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        480401.50   3774663.98        5.73489  (12121008)               480451.50
3774663.98        6.26373  (12121008)
        480501.50   3774663.98        6.83457  (12121008)               480551.50
3774663.98        7.42691  (12121008)
        480601.50   3774663.98        8.02119  (12121008)               480651.50
3774663.98        8.57411  (12121008)
        480701.50   3774663.98        9.04144  (12121008)               480751.50
3774663.98        9.38203  (12121008)
        480801.50   3774663.98        9.57884  (12121008)               480851.50
3774663.98        9.64367  (12121008)
        480901.50   3774663.98        9.60703  (12121008)               480951.50
3774663.98        9.50288  (12121008)
        481001.50   3774663.98        9.35874  (12121008)               481051.50
3774663.98        9.19114  (12121008)
        481101.50   3774663.98        9.00822  (12121008)               481151.50
3774663.98        8.81228  (12121008)
        481201.50   3774663.98        8.60362  (12121008)               481251.50
3774663.98        8.37936  (12121008)
        481301.50   3774663.98        8.13750  (12121008)               481351.50
3774663.98        7.87461  (12121008)
        481401.50   3774663.98        7.58960  (12121008)               481451.50
3774663.98        7.28389  (12121008)
        481501.50   3774663.98        6.95641  (12121008)               481551.50
3774663.98        6.68623  (14021008)
        479301.50   3774713.98        1.36147  (14120108)               479351.50
3774713.98        1.39311  (12121008)
        479401.50   3774713.98        1.46035  (12121008)               479451.50
3774713.98        1.53226  (12121008)
        479501.50   3774713.98        1.61065  (12121008)               479551.50
3774713.98        1.69456  (12121008)
        479601.50   3774713.98        1.78635  (12121008)               479651.50
3774713.98        1.88505  (12121008)
        479701.50   3774713.98        1.99312  (12121008)               479751.50
3774713.98        2.11044  (12121008)
        479801.50   3774713.98        2.23860  (12121008)               479851.50
3774713.98        2.37938  (12121008)
        479901.50   3774713.98        2.53285  (12121008)               479951.50
3774713.98        2.70296  (12121008)
        480001.50   3774713.98        2.88869  (12121008)               480051.50
3774713.98        3.09439  (12121008)
        480101.50   3774713.98        3.32133  (12121008)               480151.50
3774713.98        3.57253  (12121008)
        480201.50   3774713.98        3.84902  (12121008)               480251.50
3774713.98        4.15554  (12121008)
        480301.50   3774713.98        4.49019  (12121008)               480351.50
3774713.98        4.85707  (12121008)
        480401.50   3774713.98        5.25537  (12121008)               480451.50
3774713.98        5.68167  (12121008)
        480501.50   3774713.98        6.12733  (12121008)               480551.50
3774713.98        6.58122  (12121008)
        480601.50   3774713.98        7.02593  (12121008)               480651.50
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE ***
                                   INCLUDING SOURCE(S):   L0008653   , L0008654
, L0008655   , L0008656   , L0008657   ,
                  L0008658   , L0008659   , L0008660   , L0008661   , L0008662
, L0008663   , L0008573   , L0008574   ,
                  L0008575   , L0008576   , L0008577   , L0008578   , L0008579
, L0008580   , L0008581   , L0008582   ,
                  L0008583   , L0008584   , L0008585   , L0008586   , L0008587
, L0008588   , L0008589   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        480701.50   3774713.98   7.78458 (12121008)   480751.50
3774713.98   8.05203 (12121008)
        480801.50   3774713.98   8.22921 (12121008)   480851.50
3774713.98   8.31853 (12121008)
        480901.50   3774713.98   8.33383 (12121008)   480951.50
3774713.98   8.29171 (12121008)
        481001.50   3774713.98   8.20861 (12121008)   481051.50
3774713.98   8.09609 (12121008)
        481101.50   3774713.98   7.96125 (12121008)   481151.50
3774713.98   7.80832 (12121008)
        481201.50   3774713.98   7.63884 (12121008)   481251.50
3774713.98   7.45228 (12121008)
        481301.50   3774713.98   7.24852 (12121008)   481351.50
3774713.98   7.02587 (12121008)
        481401.50   3774713.98   6.78495 (12121008)   481451.50
3774713.98   6.52741 (12121008)
        481501.50   3774713.98   6.25253 (12121008)   479301.50
3774763.98   1.36280 (14120108)
        479351.50   3774763.98   1.38066 (14120108)   479401.50
3774763.98   1.43572 (12121008)
        479451.50   3774763.98   1.50511 (12121008)   479501.50

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3774763.98        1.58000  (12121008)
        479551.50   3774763.98        1.66023  (12121008)               479601.50
3774763.98        1.74773  (12121008)
        479651.50   3774763.98        1.84148  (12121008)               479701.50
3774763.98        1.94377  (12121008)
        479751.50   3774763.98        2.05435  (12121008)               479801.50
3774763.98        2.17537  (12121008)
        479851.50   3774763.98        2.30602  (12121008)               479901.50
3774763.98        2.44845  (12121008)
        479951.50   3774763.98        2.60534  (12121008)               480001.50
3774763.98        2.77539  (12121008)
        480051.50   3774763.98        2.96294  (12121008)               480101.50
3774763.98        3.16647  (12121008)
        480151.50   3774763.98        3.39025  (12121008)               480201.50
3774763.98        3.63438  (12121008)
        480251.50   3774763.98        3.90013  (12121008)               480301.50
3774763.98        4.18672  (12121008)
        480351.50   3774763.98        4.49712  (12121008)               480401.50
3774763.98        4.82562  (12121008)
        480451.50   3774763.98        5.17194  (12121008)               480501.50
3774763.98        5.52704  (12121008)
        480551.50   3774763.98        5.88393  (12121008)               480601.50
3774763.98        6.22581  (12121008)
        480651.50   3774763.98        6.54117  (12121008)               480701.50
3774763.98        6.81207  (12121008)
        480751.50   3774763.98        7.02832  (12121008)               480801.50
3774763.98        7.18241  (12121008)
        480851.50   3774763.98        7.27487  (12121008)               480901.50
3774763.98        7.31276  (12121008)
        480951.50   3774763.98        7.30395  (12121008)               481001.50
3774763.98        7.25777  (12121008)
        481051.50   3774763.98        7.18225  (12121008)               481101.50
3774763.98        7.08262  (12121008)
        481151.50   3774763.98        6.96304  (12121008)               481201.50
3774763.98        6.82514  (12121008)
        481251.50   3774763.98        6.67044  (12121008)               481301.50
3774763.98        6.49880  (12121008)
        481351.50   3774763.98        6.31063  (12121008)               481401.50
3774763.98        6.10686  (12121008)
        481451.50   3774763.98        5.88844  (12121008)               481501.50
3774763.98        5.65670  (12121008)
        479301.50   3774813.98        1.34031  (14120108)               479351.50
3774813.98        1.34885  (14120108)
        479401.50   3774813.98        1.40994  (12121008)               479451.50
3774813.98        1.47674  (12121008)
        479501.50   3774813.98        1.54808  (12121008)               479551.50
3774813.98        1.62514  (12121008)
        479601.50   3774813.98        1.70775  (12121008)               479651.50
3774813.98        1.79658  (12121008)
        479701.50   3774813.98        1.89323  (12121008)               479751.50
3774813.98        1.99698  (12121008)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0008653 , L0008654 , L0008655 , L0008656 , L0008657 ,
L0008658 , L0008659 , L0008660 , L0008661 , L0008662 , L0008663 , L0008573 , L0008574 ,
L0008575 , L0008576 , L0008577 , L0008578 , L0008579 , L0008580 , L0008581 , L0008582 ,
L0008583 , L0008584 , L0008585 , L0008586 , L0008587 , L0008588 , L0008589 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479801.50	3774813.98	2.11018	(12121008)	479851.50	3774813.98	2.23174	(12121008)
479901.50	3774813.98	2.36399	(12121008)	479951.50	3774813.98	2.50777	(12121008)
480001.50	3774813.98	2.66300	(12121008)	480051.50	3774813.98	2.83290	(12121008)
480101.50	3774813.98	3.01564	(12121008)	480151.50	3774813.98	3.21464	(12121008)
480201.50	3774813.98	3.42947	(12121008)	480251.50	3774813.98	3.66045	(12121008)
480301.50	3774813.98	3.90633	(12121008)	480351.50	3774813.98	4.16908	(12121008)
480401.50	3774813.98	4.44287	(12121008)	480451.50	3774813.98	4.72764	(12121008)
480501.50	3774813.98	5.01481	(12121008)	480551.50	3774813.98	5.29947	(12121008)
480601.50	3774813.98	5.57109	(12121008)	480651.50	3774813.98	5.81990	(12121008)
480701.50	3774813.98	6.03675	(12121008)	480751.50	3774813.98	6.21332	(12121008)
480801.50	3774813.98	6.34576	(12121008)	480851.50	3774813.98	6.43411	(12121008)

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        480901.50   3774813.98        6.47978  (12121008)               480951.50
3774813.98        6.48836  (12121008)
        481001.50   3774813.98        6.46458  (12121008)               481051.50
3774813.98        6.41343  (12121008)
        481101.50   3774813.98        6.33954  (12121008)               481151.50
3774813.98        6.24553  (12121008)
        481201.50   3774813.98        6.13388  (12121008)               481251.50
3774813.98        6.00509  (12121008)
        481301.50   3774813.98        5.86133  (12121008)               481351.50
3774813.98        5.70185  (12121008)
        481401.50   3774813.98        5.52879  (12121008)               481451.50
3774813.98        5.34285  (12121008)
        481501.50   3774813.98        5.14700  (12121008)               479301.50
3774863.98        1.29612  (14120108)
        479351.50   3774863.98        1.32392  (12121008)               479401.50
3774863.98        1.38320  (12121008)
        479451.50   3774863.98        1.44726  (12121008)               479501.50
3774863.98        1.51519  (12121008)
        479551.50   3774863.98        1.58865  (12121008)               479601.50
3774863.98        1.66677  (12121008)
        479651.50   3774863.98        1.75070  (12121008)               479701.50
3774863.98        1.84175  (12121008)
        479751.50   3774863.98        1.93888  (12121008)               479801.50
3774863.98        2.04448  (12121008)
        479851.50   3774863.98        2.15729  (12121008)               479901.50
3774863.98        2.27934  (12121008)
        479951.50   3774863.98        2.41122  (12121008)               480001.50
3774863.98        2.55353  (12121008)
        480051.50   3774863.98        2.70626  (12121008)               480101.50
3774863.98        2.87010  (12121008)
        480151.50   3774863.98        3.04696  (12121008)               480201.50
3774863.98        3.23584  (12121008)
        480251.50   3774863.98        3.43706  (12121008)               480301.50
3774863.98        3.64863  (12121008)
        480351.50   3774863.98        3.87205  (12121008)               480401.50
3774863.98        4.10236  (12121008)
        480451.50   3774863.98        4.33816  (12121008)               480501.50
3774863.98        4.57392  (12121008)
        480551.50   3774863.98        4.80504  (12121008)               480601.50
3774863.98        5.02475  (12121008)
        480651.50   3774863.98        5.22575  (12121008)               480701.50
3774863.98        5.40252  (12121008)
        480751.50   3774863.98        5.54886  (12121008)               480801.50
3774863.98        5.66236  (12121008)
        480851.50   3774863.98        5.74273  (12121008)               480901.50
3774863.98        5.79001  (12121008)
        480951.50   3774863.98        5.80718  (12121008)               481001.50
3774863.98        5.79670  (12121008)
        481051.50   3774863.98        5.76231  (12121008)               481101.50
3774863.98        5.70680  (12121008)
        481151.50   3774863.98        5.63256  (12121008)               481201.50
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3774863.98 5.54166 (12121008)
  481251.50 3774863.98 5.43434 (12121008) 481301.50
3774863.98 5.31253 (12121008)
  481351.50 3774863.98 5.17761 (12121008) 481401.50
3774863.98 5.03054 (12121008)
  481451.50 3774863.98 4.87259 (12121008) 481501.50
3774863.98 4.70476 (12121008)
  479301.50 3774913.98 1.29876 (16021508) 479351.50
3774913.98 1.33157 (16021508)
  479401.50 3774913.98 1.35930 (16021508) 479451.50
3774913.98 1.41684 (12121008)
  479501.50 3774913.98 1.48150 (12121008) 479551.50
3774913.98 1.55122 (12121008)
  479601.50 3774913.98 1.62511 (12121008) 479651.50
3774913.98 1.70422 (12121008)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0008653 , L0008654 , L0008655 , L0008656 , L0008657 ,
L0008658 , L0008659 , L0008660 , L0008661 , L0008662 , L0008663 , L0008573 , L0008574 ,
L0008575 , L0008576 , L0008577 , L0008578 , L0008579 , L0008580 , L0008581 , L0008582 ,
L0008583 , L0008584 , L0008585 , L0008586 , L0008587 , L0008588 , L0008589 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479701.50	3774913.98	1.78972	(12121008)	479751.50	3774913.98	1.88054	(12121008)
479801.50	3774913.98	1.97884	(12121008)	479851.50	3774913.98	2.08331	(12121008)
479901.50	3774913.98	2.19573	(12121008)	479951.50	3774913.98	2.31648	(12121008)
480001.50	3774913.98	2.44593	(12121008)	480051.50			

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3774913.98        2.58386  (12121008)
        480101.50   3774913.98        2.73076  (12121008)                480151.50
3774913.98        2.88822  (12121008)
        480201.50   3774913.98        3.05384  (12121008)                480251.50
3774913.98        3.22980  (12121008)
        480301.50   3774913.98        3.41250  (12121008)                480351.50
3774913.98        3.60349  (12121008)
        480401.50   3774913.98        3.79926  (12121008)                480451.50
3774913.98        3.99580  (12121008)
        480501.50   3774913.98        4.19224  (12121008)                480551.50
3774913.98        4.38206  (12121008)
        480601.50   3774913.98        4.56252  (12121008)                480651.50
3774913.98        4.72795  (12121008)
        480701.50   3774913.98        4.87389  (12121008)                480751.50
3774913.98        4.99669  (12121008)
        480801.50   3774913.98        5.09428  (12121008)                480851.50
3774913.98        5.16568  (12121008)
        480901.50   3774913.98        5.21134  (12121008)                480951.50
3774913.98        5.23218  (12121008)
        481001.50   3774913.98        5.22982  (12121008)                481051.50
3774913.98        5.20661  (12121008)
        481101.50   3774913.98        5.16433  (12121008)                481151.50
3774913.98        5.10551  (12121008)
        481201.50   3774913.98        5.03031  (12121008)                481251.50
3774913.98        4.94137  (12121008)
        481301.50   3774913.98        4.83901  (12121008)                481351.50
3774913.98        4.72415  (12121008)
        481401.50   3774913.98        4.59814  (12121008)                481451.50
3774913.98        4.46226  (12121008)
        481501.50   3774913.98        4.31847  (12121008)                479301.50
3774963.98        1.31522  (16021508)
        479351.50   3774963.98        1.33849  (16021508)                479401.50
3774963.98        1.35583  (16021508)
        479451.50   3774963.98        1.38586  (12121008)                479501.50
3774963.98        1.44728  (12121008)
        479551.50   3774963.98        1.51332  (12121008)                479601.50
3774963.98        1.58307  (12121008)
        479651.50   3774963.98        1.65750  (12121008)                479701.50
3774963.98        1.73764  (12121008)
        479751.50   3774963.98        1.82272  (12121008)                479801.50
3774963.98        1.91373  (12121008)
        479851.50   3774963.98        2.01032  (12121008)                479901.50
3774963.98        2.11372  (12121008)
        479951.50   3774963.98        2.22414  (12121008)                480001.50
3774963.98        2.34179  (12121008)
        480051.50   3774963.98        2.46631  (12121008)                480101.50
3774963.98        2.59795  (12121008)
        480151.50   3774963.98        2.73804  (12121008)                480201.50
3774963.98        2.88411  (12121008)
        480251.50   3774963.98        3.03804  (12121008)                480301.50
3774963.98        3.19643  (12121008)
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        480351.50   3774963.98        3.36058  (12121008)               480401.50
3774963.98        3.52738  (12121008)
        480451.50   3774963.98        3.69343  (12121008)               480501.50
3774963.98        3.85833  (12121008)
        480551.50   3774963.98        4.01743  (12121008)               480601.50
3774963.98        4.16692  (12121008)
        480651.50   3774963.98        4.30471  (12121008)               480701.50
3774963.98        4.42685  (12121008)
        480751.50   3774963.98        4.53073  (12121008)               480801.50
3774963.98        4.61458  (12121008)
        480851.50   3774963.98        4.67772  (12121008)               480901.50
3774963.98        4.72017  (12121008)
        480951.50   3774963.98        4.74180  (12121008)               481001.50
3774963.98        4.74418  (12121008)
        481051.50   3774963.98        4.72846  (12121008)               481101.50
3774963.98        4.69639  (12121008)
        481151.50   3774963.98        4.64852  (12121008)               481201.50
3774963.98        4.58695  (12121008)
        481251.50   3774963.98        4.51196  (12121008)               481301.50
3774963.98        4.42507  (12121008)
        481351.50   3774963.98        4.32720  (12121008)               481401.50
3774963.98        4.21948  (12121008)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                   PAGE 344
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                  L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
                  L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                  L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
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        481451.50   3774963.98        4.10302  (12121008)               480801.50
3775013.98        4.20503  (12121008)
        480851.50   3775013.98        4.26065  (12121008)               480901.50
3775013.98        4.29912  (12121008)
        480951.50   3775013.98        4.32043  (12121008)               481001.50
3775013.98        4.32549  (12121008)
        481051.50   3775013.98        4.31494  (12121008)               481101.50
3775013.98        4.28962  (12121008)
        481151.50   3775013.98        4.25127  (12121008)               481201.50
3775013.98        4.19964  (12121008)
        481251.50   3775013.98        4.13629  (12121008)               481301.50
3775013.98        4.06218  (12121008)
        481351.50   3775013.98        3.97819  (12121008)               481401.50
3775013.98        3.88626  (12121008)
        481451.50   3775013.98        3.78609  (12121008)               480801.50
3775063.98        3.85158  (12121008)
        480851.50   3775063.98        3.90040  (12121008)               480901.50
3775063.98        3.93478  (12121008)
        480951.50   3775063.98        3.95508  (12121008)               481001.50
3775063.98        3.96157  (12121008)
        481051.50   3775063.98        3.95450  (12121008)               481101.50
3775063.98        3.93475  (12121008)
        481151.50   3775063.98        3.90310  (12121008)               481201.50
3775063.98        3.86015  (12121008)
        481251.50   3775063.98        3.80598  (12121008)               481301.50
3775063.98        3.74243  (12121008)
        481351.50   3775063.98        3.67010  (12121008)               481401.50
3775063.98        3.58992  (12121008)
        481451.50   3775063.98        3.50481  (12121008)               480801.50
3775113.98        3.54392  (12121008)
        480851.50   3775113.98        3.58656  (12121008)               480901.50
3775113.98        3.61735  (12121008)
        480951.50   3775113.98        3.63629  (12121008)               481001.50
3775113.98        3.64324  (12121008)
        481051.50   3775113.98        3.63845  (12121008)               481101.50
3775113.98        3.62257  (12121008)
        481151.50   3775113.98        3.59617  (12121008)               481201.50
3775113.98        3.55979  (12121008)
        481251.50   3775113.98        3.51371  (12121008)               481301.50
3775113.98        3.45901  (12121008)
        481351.50   3775113.98        3.39685  (12121008)               481401.50
3775113.98        3.32755  (12121008)
        481451.50   3775113.98        3.25351  (12121008)               480801.50
3775163.98        3.27395  (12121008)
        480851.50   3775163.98        3.31149  (12121008)               480901.50
3775163.98        3.33892  (12121008)
        480951.50   3775163.98        3.35619  (12121008)               481001.50
3775163.98        3.36310  (12121008)
        481051.50   3775163.98        3.35988  (12121008)               481101.50
3775163.98        3.34693  (12121008)
        481151.50   3775163.98        3.32432  (12121008)               481201.50
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3775163.98        3.29363  (12121008)
        481251.50   3775163.98        3.25394  (12121008)               481301.50
3775163.98        3.20696  (12121008)
        481351.50   3775163.98        3.15327  (12121008)               481401.50
3775163.98        3.09304  (12121008)
        481451.50   3775163.98        3.02774  (12121008)               480801.50
3775213.98        3.03560  (12121008)
        480851.50   3775213.98        3.06858  (12121008)               480901.50
3775213.98        3.09291  (12121008)
        480951.50   3775213.98        3.10845  (12121008)               481001.50
3775213.98        3.11529  (12121008)
        481051.50   3775213.98        3.11339  (12121008)               481101.50
3775213.98        3.10242  (12121008)
        481151.50   3775213.98        3.08335  (12121008)               481201.50
3775213.98        3.05679  (12121008)
        481251.50   3775213.98        3.02199  (12121008)               481301.50
3775213.98        2.98190  (12121008)
        481351.50   3775213.98        2.93529  (12121008)               481401.50
3775213.98        2.88150  (12121008)
        481451.50   3775213.98        2.82329  (12121008)               480801.50
3775263.98        2.82383  (12121008)
        480851.50   3775263.98        2.85286  (12121008)               480901.50
3775263.98        2.87437  (12121008)
        480951.50   3775263.98        2.88828  (12121008)               481001.50
3775263.98        2.89499  (12121008)
        481051.50   3775263.98        2.89326  (12121008)               481101.50
3775263.98        2.88421  (12121008)
        481151.50   3775263.98        2.86798  (12121008)               481201.50
3775263.98        2.84434  (12121008)
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                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
                L0008575    , L0008576    , L0008577    , L0008578    , L0008579
, L0008580    , L0008581    , L0008582    ,
                L0008583    , L0008584    , L0008585    , L0008586    , L0008587
, L0008588    , L0008589    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481251.50	3775263.98	2.81486	(12121008)	481301.50	3775263.98	2.77958	(12121008)
481351.50	3775263.98	2.73740	(12121008)	481401.50	3775263.98	2.69167	(12121008)
481451.50	3775263.98	2.64136	(12121008)	480801.50	3775313.98	2.63486	(12121008)
480851.50	3775313.98	2.66041	(12121008)	480901.50	3775313.98	2.67929	(12121008)
480951.50	3775313.98	2.69168	(12121008)	481001.50	3775313.98	2.69712	(12121008)
481051.50	3775313.98	2.69645	(12121008)	481101.50	3775313.98	2.68868	(12121008)
481151.50	3775313.98	2.67436	(12121008)	481201.50	3775313.98	2.65449	(12121008)
481251.50	3775313.98	2.62777	(12121008)	481301.50	3775313.98	2.59691	(12121008)
481351.50	3775313.98	2.55904	(12121008)	481401.50	3775313.98	2.51821	(12121008)
480801.50	3775363.98	2.46505	(12121008)	480851.50	3775363.98	2.48754	(12121008)
480901.50	3775363.98	2.50435	(12121008)	480951.50	3775363.98	2.51500	(12121008)
481001.50	3775363.98	2.52039	(12121008)	481051.50	3775363.98	2.51978	(12121008)
481101.50	3775363.98	2.51272	(12121008)	481151.50	3775363.98	2.50103	(12121008)
481201.50	3775363.98	2.48363	(12121008)	481251.50	3775363.98	2.46003	(12121008)
481301.50	3775363.98	2.43082	(12121008)	481351.50	3775363.98	2.39919	(12121008)
481401.50	3775363.98	2.36177	(12121008)	480801.50	3775413.98	2.31196	(12121008)
480851.50	3775413.98	2.33195	(12121008)	480901.50	3775413.98	2.34668	(12121008)
480951.50	3775413.98	2.35610	(12121008)	481001.50	3775413.98	2.36017	(12121008)
481051.50	3775413.98	2.35978	(12121008)	481101.50	3775413.98	2.35440	(12121008)
481151.50	3775413.98	2.34298	(12121008)	481201.50	3775413.98	2.32779	(12121008)
481251.50	3775413.98	2.30724	(12121008)	481301.50	3775413.98	2.28405	(12121008)
481351.50	3775413.98	2.25361	(12121008)	481401.50	3775413.98	2.22031	(12121008)

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        480801.50   3775463.98        2.17351  (12121008)               480851.50
3775463.98        2.19069  (12121008)
        480901.50   3775463.98        2.20393  (12121008)               480951.50
3775463.98        2.21195  (12121008)
        481001.50   3775463.98        2.21630  (12121008)               481051.50
3775463.98        2.21598  (12121008)
        481101.50   3775463.98        2.21035  (12121008)               481151.50
3775463.98        2.20130  (12121008)
        481201.50   3775463.98        2.18646  (12121008)               481251.50
3775463.98        2.16909  (12121008)
        481301.50   3775463.98        2.14795  (12121008)               481351.50
3775463.98        2.12372  (12121008)
        481401.50   3775463.98        2.09317  (12121008)               480801.50
3775513.98        2.04758  (12121008)
        480851.50   3775513.98        2.06273  (12121008)               480901.50
3775513.98        2.07371  (12121008)
        480951.50   3775513.98        2.08166  (12121008)               481001.50
3775513.98        2.08441  (12121008)
        481051.50   3775513.98        2.08432  (12121008)               481101.50
3775513.98        2.08029  (12121008)
        481151.50   3775513.98        2.07066  (12121008)               481201.50
3775513.98        2.05886  (12121008)
        481251.50   3775513.98        2.04219  (12121008)               481301.50
3775513.98        2.02497  (12121008)
        481351.50   3775513.98        2.00308  (12121008)               481401.50
3775513.98        1.97445  (12121008)
        480801.50   3775563.98        1.93225  (12121008)               480851.50
3775563.98        1.94605  (12121008)
        480901.50   3775563.98        1.95610  (12121008)               480951.50
3775563.98        1.96277  (12121008)
        481001.50   3775563.98        1.96559  (12121008)               481051.50
3775563.98        1.96538  (12121008)
        481101.50   3775563.98        1.96071  (12121008)               481151.50
3775563.98        1.95328  (12121008)
        481201.50   3775563.98        1.94163  (12121008)               481251.50
3775563.98        1.92698  (12121008)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                        ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:12:32

                                   PAGE 346
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0008653    , L0008654
, L0008655    , L0008656    , L0008657    ,
                L0008658    , L0008659    , L0008660    , L0008661    , L0008662
, L0008663    , L0008573    , L0008574    ,
                L0008575    , L0008576    , L0008577    , L0008578    , L0008579
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, L0008580 , L0008581 , L0008582 ,
L0008583 , L0008584 , L0008585 , L0008586 , L0008587
, L0008588 , L0008589 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3775563.98	1.91028	(12121008)	481351.50	3775563.98	1.88788	(12121008)
481401.50	3775563.98	1.86240	(12121008)	479332.46	3774240.22	5.22738	(14011308)
479382.46	3774240.22	5.44189	(14011308)	479432.46	3774240.22	5.69771	(14011308)
479482.46	3774240.22	5.94382	(14011308)	479532.46	3774240.22	6.24457	(14011308)
479582.46	3774240.22	6.53345	(14011308)	479632.46	3774240.22	6.86348	(14011308)
479682.46	3774240.22	7.23025	(14011308)	479732.46	3774240.22	7.60375	(14011308)
479782.46	3774240.22	8.06461	(14011308)	479832.46	3774240.22	8.51764	(14011308)
479882.46	3774240.22	9.01636	(14011308)	479932.46	3774240.22	9.56765	(14011308)
479332.46	3774290.22	4.67883	(14011308)	479382.46	3774290.22	4.88266	(14011308)
479432.46	3774290.22	5.07411	(14011308)	479482.46	3774290.22	5.28050	(14011308)
479532.46	3774290.22	5.52969	(14011308)	479582.46	3774290.22	5.76754	(14011308)
479632.46	3774290.22	6.05983	(14011308)	479682.46	3774290.22	6.33930	(14011308)
479732.46	3774290.22	6.64598	(14011308)	479782.46	3774290.22	7.01249	(14011308)
479832.46	3774290.22	7.37833	(14011308)	479882.46	3774290.22	7.77424	(14011308)
479932.46	3774290.22	8.23955	(14011308)	479332.46	3774340.22	4.07840	(14011308)
479382.46	3774340.22	4.24094	(14011308)	479432.46	3774340.22	4.39055	(14011308)
479482.46	3774340.22	4.55998	(14011308)	479532.46	3774340.22	4.74508	(14011308)
479582.46	3774340.22	4.92649	(14011308)	479632.46	3774340.22	5.15085	(14011308)
479682.46	3774340.22	5.36240	(14011308)	479732.46			

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3774340.22        5.61770  (14011308)
        479782.46   3774340.22        5.85867  (14011308)                 479832.46
3774340.22        6.12564  (14011308)
        479882.46   3774340.22        6.43617  (14011308)                 479932.46
3774340.22        6.76559  (14011308)
        479332.46   3774390.22        3.47283  (14011308)                 479382.46
3774390.22        3.58674  (14011308)
        479432.46   3774390.22        3.69513  (14011308)                 479482.46
3774390.22        3.83003  (14011308)
        479532.46   3774390.22        3.95070  (14011308)                 479582.46
3774390.22        4.09523  (14011308)
        479632.46   3774390.22        4.23602  (14011308)                 479682.46
3774390.22        4.40444  (14011308)
        479732.46   3774390.22        4.55627  (14011308)                 479782.46
3774390.22        4.71646  (14011308)
        479832.46   3774390.22        4.90244  (14011308)                 479882.46
3774390.22        5.10029  (14011308)
        479932.46   3774390.22        5.30947  (14011308)

↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                         ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:12:32

                                  PAGE 347
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        480415.97   3774200.25      116.77165  (13120208)                 480386.35
3774201.62      109.14846  (13120208)
        480364.52   3774200.25       97.42419  (13120208)                 480441.34
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3774196.20      122.46837  (12121008)
        480332.65   3774203.34       84.51039  (13120208)                480281.98
3774208.10       71.88652  (14011308)
        480259.39   3774210.95       68.89771  (14011308)                480179.23
3774215.23       57.01704  (14011308)
        479777.13   3774155.68       25.34564  (14011308)                479903.88
3774153.05       29.58065  (14011308)
        479888.73   3774072.72       22.78980  (14011308)                480286.74
3774147.78       58.72664  (13120208)
        480415.64   3774088.13       47.11899  (13120208)                480408.03
3774009.17       31.85649  (13120208)
        480445.38   3774004.65       33.87197  (12121008)                480447.28
3774028.67       37.53984  (12121008)
        480276.83   3774266.75       89.18096  (14011308)                480151.33
3774266.75       58.01829  (14011308)
        480135.30   3774266.75       55.50784  (14011308)                479301.50
3774413.98       10.37055  (14011308)
        479351.50   3774413.98       10.87413  (14011308)                479401.50
3774413.98       11.35449  (14011308)
        479451.50   3774413.98       11.90083  (14011308)                479501.50
3774413.98       12.51133  (14011308)
        479551.50   3774413.98       13.12710  (14011308)                479601.50
3774413.98       13.88843  (14011308)
        479651.50   3774413.98       14.63541  (14011308)                479701.50
3774413.98       15.55153  (14011308)
        479751.50   3774413.98       16.46021  (14011308)                479801.50
3774413.98       17.47116  (14011308)
        479851.50   3774413.98       18.72803  (14011308)                479901.50
3774413.98       20.01016  (14011308)
        479951.50   3774413.98       21.59991  (14011308)                480001.50
3774413.98       23.23389  (14011308)
        480051.50   3774413.98       25.22459  (14011308)                480101.50
3774413.98       27.51012  (14011308)
        480151.50   3774413.98       30.09517  (14011308)                480201.50
3774413.98       33.41035  (14011308)
        480251.50   3774413.98       37.05984  (14011308)                480301.50
3774413.98       42.29908  (12121008)
        480351.50   3774413.98       59.55533  (12121008)                480401.50
3774413.98       91.78978  (12121008)
        480451.50   3774413.98      138.17030  (12121008)                480501.50
3774413.98      163.32375  (12121008)
        480551.50   3774413.98      168.19721  (12121008)                480601.50
3774413.98      166.68125  (12121008)
        480651.50   3774413.98      161.11017  (12121008)                480701.50
3774413.98      152.92363  (12121008)
        480751.50   3774413.98      129.35932  (12121008)                480801.50
3774413.98       84.15155  (12121008)
        480851.50   3774413.98       61.02602  (12121008)                480901.50
3774413.98       48.51724  (12121008)
        480951.50   3774413.98       40.86322  (12121008)                481001.50
3774413.98       35.77433  (12121008)
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        481051.50   3774413.98       32.17895  (12121008)               481101.50
3774413.98       29.50705  (12121008)
        481151.50   3774413.98       27.43621  (12121008)               481201.50
3774413.98       25.75767  (12121008)
        481251.50   3774413.98       24.79025  (12022008)               481301.50
3774413.98       25.69097  (12022008)
        481351.50   3774413.98       28.07864  (12022008)               481401.50
3774413.98       27.65504  (12022008)
        481451.50   3774413.98       29.37883  (12022008)               479301.50
3774463.98        8.65074  (14011308)
        479351.50   3774463.98        9.01267  (14011308)               479401.50
3774463.98        9.34519  (14011308)
        479451.50   3774463.98        9.75274  (14011308)               479501.50
3774463.98       10.13415  (14011308)
        479551.50   3774463.98       10.58035  (14011308)               479601.50
3774463.98       11.03435  (14011308)
        479651.50   3774463.98       11.49762  (14011308)               479701.50
3774463.98       12.06473  (14011308)
        479751.50   3774463.98       12.59071  (14011308)               479801.50
3774463.98       13.23839  (14011308)
        479851.50   3774463.98       13.84505  (14011308)               479901.50
3774463.98       14.52256  (14011308)
        479951.50   3774463.98       15.26780  (14011308)               480001.50
3774463.98       15.97020  (14011308)
        480051.50   3774463.98       16.84962  (14011308)               480101.50
3774463.98       17.60063  (14011308)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:12:32

                                    PAGE 348
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480151.50	3774463.98	19.56775	(12121008)	480201.50	3774463.98	23.42512	(12121008)
480251.50	3774463.98	28.64523	(12121008)	480301.50	3774463.98	35.93797	(12121008)
480351.50	3774463.98	46.10556	(12121008)	480401.50	3774463.98	59.62986	(12121008)
480451.50	3774463.98	73.90263	(12121008)	480501.50	3774463.98	84.33213	(12121008)
480551.50	3774463.98	89.57663	(12121008)	480601.50	3774463.98	90.87727	(12121008)
480651.50	3774463.98	88.95066	(12121008)	480701.50	3774463.98	83.64272	(12121008)
480751.50	3774463.98	73.55538	(12121008)	480801.50	3774463.98	60.35490	(12121008)
480851.50	3774463.98	49.18401	(12121008)	480901.50	3774463.98	41.18514	(12121008)
480951.50	3774463.98	35.55188	(12121008)	481001.50	3774463.98	31.48620	(12121008)
481051.50	3774463.98	28.45699	(12121008)	481101.50	3774463.98	26.12109	(12121008)
481151.50	3774463.98	24.25912	(12121008)	481201.50	3774463.98	22.71865	(12121008)
481251.50	3774463.98	22.40242	(12022008)	481301.50	3774463.98	23.62935	(12022008)
481351.50	3774463.98	26.76608	(12022008)	481401.50	3774463.98	26.84352	(12022008)
481451.50	3774463.98	27.53830	(12022008)	481501.50	3774463.98	28.07281	(12022008)
479301.50	3774513.98	7.00480	(14011308)	479351.50	3774513.98	7.22423	(14011308)
479401.50	3774513.98	7.42640	(14011308)	479451.50	3774513.98	7.68008	(14011308)
479501.50	3774513.98	7.89684	(14011308)	479551.50	3774513.98	8.15511	(14011308)
479601.50	3774513.98	8.39838	(14011308)	479651.50	3774513.98	8.68651	(14011308)
479701.50	3774513.98	8.92391	(14011308)	479751.50	3774513.98	9.15940	(14011308)
479801.50	3774513.98	9.45843	(14011308)	479851.50	3774513.98	9.68539	(14011308)
479901.50	3774513.98	9.97490	(14011308)	479951.50	3774513.98	10.71787	(12121008)
480001.50	3774513.98	12.04959	(12121008)	480051.50	3774513.98	13.66297	(12121008)
480101.50	3774513.98	15.64506	(12121008)	480151.50	3774513.98	18.13042	(12121008)
480201.50	3774513.98	21.25594	(12121008)	480251.50			

3774513.98   25.23332 (12121008)
        480301.50   3774513.98   30.31551 (12121008)   480351.50
3774513.98   36.56144 (12121008)
        480401.50   3774513.98   43.75129 (12121008)   480451.50
3774513.98   50.77481 (12121008)
        480501.50   3774513.98   56.38656 (12121008)   480551.50
3774513.98   59.77186 (12121008)
        480601.50   3774513.98   60.96841 (12121008)   480651.50
3774513.98   60.03826 (12121008)
        480701.50   3774513.98   57.02574 (12121008)   480751.50
3774513.98   52.01845 (12121008)
        480801.50   3774513.98   45.85638 (12121008)   480851.50
3774513.98   39.87263 (12121008)
        480901.50   3774513.98   34.83438 (12121008)   480951.50
3774513.98   30.84143 (12121008)
        481001.50   3774513.98   27.71317 (12121008)   481051.50
3774513.98   25.24720 (12121008)
        481101.50   3774513.98   23.26464 (12121008)   481151.50
3774513.98   21.63387 (12121008)
        481201.50   3774513.98   20.25459 (12121008)   481251.50
3774513.98   20.93067 (12022008)
        481301.50   3774513.98   23.17054 (12022008)   481351.50
3774513.98   23.56860 (12022008)
        481401.50   3774513.98   25.84235 (12022008)   481451.50
3774513.98   24.82331 (12022008)
        481501.50   3774513.98   26.29704 (12022008)   481551.50
3774513.98   25.00430 (12022008)
        479301.50   3774563.98   5.50303 (14011308)   479351.50
3774563.98   5.62490 (14011308)
        479401.50   3774563.98   5.73333 (14011308)   479451.50
3774563.98   5.86150 (14011308)
        479501.50   3774563.98   5.95995 (14011308)   479551.50
3774563.98   6.08097 (14011308)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479601.50	3774563.98	6.18127	(14011308)	479651.50	3774563.98	6.30384	(14011308)
479701.50	3774563.98	6.45957	(12121008)	479751.50	3774563.98	7.01873	(12121008)
479801.50	3774563.98	7.66085	(12121008)	479851.50	3774563.98	8.39869	(12121008)
479901.50	3774563.98	9.26294	(12121008)	479951.50	3774563.98	10.26904	(12121008)
480001.50	3774563.98	11.46403	(12121008)	480051.50	3774563.98	12.88260	(12121008)
480101.50	3774563.98	14.59421	(12121008)	480151.50	3774563.98	16.65011	(12121008)
480201.50	3774563.98	19.13921	(12121008)	480251.50	3774563.98	22.16016	(12121008)
480301.50	3774563.98	25.72317	(12121008)	480351.50	3774563.98	29.80119	(12121008)
480401.50	3774563.98	34.13007	(12121008)	480451.50	3774563.98	38.22894	(12121008)
480501.50	3774563.98	41.57908	(12121008)	480551.50	3774563.98	43.77779	(12121008)
480601.50	3774563.98	44.65631	(12121008)	480651.50	3774563.98	44.22208	(12121008)
480701.50	3774563.98	42.53393	(12121008)	480751.50	3774563.98	39.78073	(12121008)
480801.50	3774563.98	36.37959	(12121008)	480851.50	3774563.98	32.85233	(12121008)
480901.50	3774563.98	29.59475	(12121008)	480951.50	3774563.98	26.77923	(12121008)
481001.50	3774563.98	24.41623	(12121008)	481051.50	3774563.98	22.44918	(12121008)
481101.50	3774563.98	20.80037	(12121008)	481151.50	3774563.98	19.40017	(12121008)
481201.50	3774563.98	18.18978	(12121008)	481251.50	3774563.98	18.51898	(12022008)
481301.50	3774563.98	20.43227	(12022008)	481351.50	3774563.98	20.32787	(12022008)
481401.50	3774563.98	21.92649	(14021008)	481451.50	3774563.98	24.50652	(14021008)
481501.50	3774563.98	23.22609	(14021008)	481551.50	3774563.98	23.63944	(14021008)

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        479301.50   3774613.98        4.24225  (14011308)               479351.50
3774613.98        4.28410  (14011308)
        479401.50   3774613.98        4.33819  (14011308)               479451.50
3774613.98        4.42371  (12121008)
        479501.50   3774613.98        4.71874  (12121008)               479551.50
3774613.98        5.04914  (12121008)
        479601.50   3774613.98        5.41503  (12121008)               479651.50
3774613.98        5.82846  (12121008)
        479701.50   3774613.98        6.29037  (12121008)               479751.50
3774613.98        6.81696  (12121008)
        479801.50   3774613.98        7.41206  (12121008)               479851.50
3774613.98        8.09580  (12121008)
        479901.50   3774613.98        8.88043  (12121008)               479951.50
3774613.98        9.78604  (12121008)
        480001.50   3774613.98       10.84556  (12121008)               480051.50
3774613.98       12.07556  (12121008)
        480101.50   3774613.98       13.52591  (12121008)               480151.50
3774613.98       15.21583  (12121008)
        480201.50   3774613.98       17.19238  (12121008)               480251.50
3774613.98       19.47690  (12121008)
        480301.50   3774613.98       22.05237  (12121008)               480351.50
3774613.98       24.83421  (12121008)
        480401.50   3774613.98       27.65393  (12121008)               480451.50
3774613.98       30.28172  (12121008)
        480501.50   3774613.98       32.42669  (12121008)               480551.50
3774613.98       33.88712  (12121008)
        480601.50   3774613.98       34.53703  (12121008)               480651.50
3774613.98       34.35972  (12121008)
        480701.50   3774613.98       33.39622  (12121008)               480751.50
3774613.98       31.78170  (12121008)
        480801.50   3774613.98       29.73958  (12121008)               480851.50
3774613.98       27.51917  (12121008)
        480901.50   3774613.98       25.34440  (12121008)               480951.50
3774613.98       23.33878  (12121008)
        481001.50   3774613.98       21.56112  (12121008)               481051.50
3774613.98       20.00669  (12121008)
        481101.50   3774613.98       18.65479  (12121008)               481151.50
3774613.98       17.47108  (12121008)
        481201.50   3774613.98       16.42144  (12121008)               481251.50
3774613.98       16.40200  (14021008)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:12:32

                                   PAGE 350
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
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```
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        481301.50   3774613.98       17.34807  (14021008)               481351.50
3774613.98       19.05662  (14021008)
        481401.50   3774613.98       20.46108  (14021008)               481451.50
3774613.98       21.70570  (14021008)
        481501.50   3774613.98       22.83376  (14021008)               481551.50
3774613.98       22.89960  (14021008)
        479301.50   3774663.98        3.63803  (12121008)               479351.50
3774663.98        3.85009  (12121008)
        479401.50   3774663.98        4.08433  (12121008)               479451.50
3774663.98        4.34018  (12121008)
        479501.50   3774663.98        4.62364  (12121008)               479551.50
3774663.98        4.93680  (12121008)
        479601.50   3774663.98        5.28467  (12121008)               479651.50
3774663.98        5.67324  (12121008)
        479701.50   3774663.98        6.10603  (12121008)               479751.50
3774663.98        6.59620  (12121008)
        479801.50   3774663.98        7.14528  (12121008)               479851.50
3774663.98        7.77111  (12121008)
        479901.50   3774663.98        8.47910  (12121008)               479951.50
3774663.98        9.28646  (12121008)
        480001.50   3774663.98       10.21613  (12121008)               480051.50
3774663.98       11.27759  (12121008)
        480101.50   3774663.98       12.49492  (12121008)               480151.50
3774663.98       13.87833  (12121008)
        480201.50   3774663.98       15.45254  (12121008)               480251.50
3774663.98       17.19522  (12121008)
        480301.50   3774663.98       19.09529  (12121008)               480351.50
3774663.98       21.06607  (12121008)
        480401.50   3774663.98       23.01411  (12121008)               480451.50
3774663.98       24.78886  (12121008)
        480501.50   3774663.98       26.24740  (12121008)               480551.50
3774663.98       27.25651  (12121008)
        480601.50   3774663.98       27.74919  (12121008)               480651.50
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3774663.98       27.69972  (12121008)
        480701.50   3774663.98       27.13915  (12121008)                480751.50
3774663.98       26.15064  (12121008)
        480801.50   3774663.98       24.85651  (12121008)                480851.50
3774663.98       23.39625  (12121008)
        480901.50   3774663.98       21.89598  (12121008)                480951.50
3774663.98       20.44930  (12121008)
        481001.50   3774663.98       19.10399  (12121008)                481051.50
3774663.98       17.87972  (12121008)
        481101.50   3774663.98       16.77789  (12121008)                481151.50
3774663.98       15.78495  (12121008)
        481201.50   3774663.98       14.88688  (12121008)                481251.50
3774663.98       14.78714  (14021008)
        481301.50   3774663.98       14.87921  (14021008)                481351.50
3774663.98       16.35884  (14021008)
        481401.50   3774663.98       17.90399  (14021008)                481451.50
3774663.98       18.33286  (14021008)
        481501.50   3774663.98       19.83088  (14021008)                481551.50
3774663.98       20.25449  (14021008)
        479301.50   3774713.98        3.57688  (12121008)                479351.50
3774713.98        3.78121  (12121008)
        479401.50   3774713.98        4.00533  (12121008)                479451.50
3774713.98        4.24940  (12121008)
        479501.50   3774713.98        4.51995  (12121008)                479551.50
3774713.98        4.81561  (12121008)
        479601.50   3774713.98        5.14514  (12121008)                479651.50
3774713.98        5.50761  (12121008)
        479701.50   3774713.98        5.91299  (12121008)                479751.50
3774713.98        6.36373  (12121008)
        479801.50   3774713.98        6.86805  (12121008)                479851.50
3774713.98        7.43548  (12121008)
        479901.50   3774713.98        8.07029  (12121008)                479951.50
3774713.98        8.79014  (12121008)
        480001.50   3774713.98        9.59582  (12121008)                480051.50
3774713.98       10.50572  (12121008)
        480101.50   3774713.98       11.52576  (12121008)                480151.50
3774713.98       12.66395  (12121008)
        480201.50   3774713.98       13.91414  (12121008)                480251.50
3774713.98       15.27181  (12121008)
        480301.50   3774713.98       16.69439  (12121008)                480351.50
3774713.98       18.14048  (12121008)
        480401.50   3774713.98       19.53663  (12121008)                480451.50
3774713.98       20.79427  (12121008)
        480501.50   3774713.98       21.82312  (12121008)                480551.50
3774713.98       22.55117  (12121008)
        480601.50   3774713.98       22.93161  (12121008)                480651.50
3774713.98       22.94761  (12121008)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        09:12:32
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480701.50	3774713.98	22.61724	(12121008)	480751.50	3774713.98	21.99166	(12121008)
480801.50	3774713.98	21.14020	(12121008)	480851.50	3774713.98	20.14570	(12121008)
480901.50	3774713.98	19.08497	(12121008)	480951.50	3774713.98	18.02239	(12121008)
481001.50	3774713.98	16.99678	(12121008)	481051.50	3774713.98	16.03118	(12121008)
481101.50	3774713.98	15.13589	(12121008)	481151.50	3774713.98	14.30681	(12121008)
481201.50	3774713.98	13.54277	(12121008)	481251.50	3774713.98	12.82954	(12121008)
481301.50	3774713.98	12.80687	(14021008)	481351.50	3774713.98	13.66893	(14021008)
481401.50	3774713.98	14.62687	(14021008)	481451.50	3774713.98	15.15313	(14021008)
481501.50	3774713.98	16.37911	(14021008)	479301.50	3774763.98	3.51108	(12121008)
479351.50	3774763.98	3.70799	(12121008)	479401.50	3774763.98	3.92059	(12121008)
479451.50	3774763.98	4.15342	(12121008)	479501.50	3774763.98	4.40887	(12121008)
479551.50	3774763.98	4.68756	(12121008)	479601.50	3774763.98	4.99662	(12121008)
479651.50	3774763.98	5.33457	(12121008)	479701.50	3774763.98	5.71008	(12121008)

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        479751.50   3774763.98        6.12446  (12121008)              479801.50
3774763.98        6.58662  (12121008)
        479851.50   3774763.98        7.09642  (12121008)              479901.50
3774763.98        7.66307  (12121008)
        479951.50   3774763.98        8.29758  (12121008)              480001.50
3774763.98        8.99733  (12121008)
        480051.50   3774763.98        9.77712  (12121008)              480101.50
3774763.98       10.63011  (12121008)
        480151.50   3774763.98       11.56515  (12121008)              480201.50
3774763.98       12.57167  (12121008)
        480251.50   3774763.98       13.63534  (12121008)              480301.50
3774763.98       14.72668  (12121008)
        480351.50   3774763.98       15.81656  (12121008)              480401.50
3774763.98       16.84658  (12121008)
        480451.50   3774763.98       17.76854  (12121008)              480501.50
3774763.98       18.52294  (12121008)
        480551.50   3774763.98       19.06632  (12121008)              480601.50
3774763.98       19.36646  (12121008)
        480651.50   3774763.98       19.41340  (12121008)              480701.50
3774763.98       19.21934  (12121008)
        480751.50   3774763.98       18.81153  (12121008)              480801.50
3774763.98       18.23502  (12121008)
        480851.50   3774763.98       17.53983  (12121008)              480901.50
3774763.98       16.77341  (12121008)
        480951.50   3774763.98       15.97910  (12121008)              481001.50
3774763.98       15.19125  (12121008)
        481051.50   3774763.98       14.42529  (12121008)              481101.50
3774763.98       13.69655  (12121008)
        481151.50   3774763.98       13.00705  (12121008)              481201.50
3774763.98       12.35547  (12121008)
        481251.50   3774763.98       11.74262  (12121008)              481301.50
3774763.98       11.16028  (12121008)
        481351.50   3774763.98       11.19309  (14021008)              481401.50
3774763.98       11.66046  (14021008)
        481451.50   3774763.98       12.27485  (14021008)              481501.50
3774763.98       13.03947  (14021008)
        479301.50   3774813.98        3.44136  (12121008)              479351.50
3774813.98        3.62924  (12121008)
        479401.50   3774813.98        3.83138  (12121008)              479451.50
3774813.98        4.05270  (12121008)
        479501.50   3774813.98        4.29287  (12121008)              479551.50
3774813.98        4.55616  (12121008)
        479601.50   3774813.98        4.84314  (12121008)              479651.50
3774813.98        5.15695  (12121008)
        479701.50   3774813.98        5.50366  (12121008)              479751.50
3774813.98        5.88248  (12121008)
        479801.50   3774813.98        6.30200  (12121008)              479851.50
3774813.98        6.76030  (12121008)
        479901.50   3774813.98        7.26580  (12121008)              479951.50
3774813.98        7.82197  (12121008)
        480001.50   3774813.98        8.42861  (12121008)              480051.50
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3774813.98 9.09472 (12121008)
 480101.50 3774813.98 9.81128 (12121008) 480151.50
3774813.98 10.58310 (12121008)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                      *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
                         INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
           L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
           L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
           L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

                                   *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                ** CONC OF PM_10 IN MICROGRAMS/M**3
            **

   X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
 - - -

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3774813.98       11.85798  (12121008)
        481201.50   3774813.98       11.30810  (12121008)                481251.50
3774813.98       10.77952  (12121008)
        481301.50   3774813.98       10.27520  (12121008)                481351.50
3774813.98        9.78739  (12121008)
        481401.50   3774813.98        9.31825  (12121008)                481451.50
3774813.98        9.54931  (14021008)
        481501.50   3774813.98        9.98952  (14021008)                479301.50
3774863.98        3.36842  (12121008)
        479351.50   3774863.98        3.54713  (12121008)                479401.50
3774863.98        3.73870  (12121008)
        479451.50   3774863.98        3.94811  (12121008)                479501.50
3774863.98        4.17349  (12121008)
        479551.50   3774863.98        4.42027  (12121008)                479601.50
3774863.98        4.68673  (12121008)
        479651.50   3774863.98        4.97704  (12121008)                479701.50
3774863.98        5.29590  (12121008)
        479751.50   3774863.98        5.64116  (12121008)                479801.50
3774863.98        6.02075  (12121008)
        479851.50   3774863.98        6.43159  (12121008)                479901.50
3774863.98        6.88020  (12121008)
        479951.50   3774863.98        7.36827  (12121008)                480001.50
3774863.98        7.89677  (12121008)
        480051.50   3774863.98        8.46371  (12121008)                480101.50
3774863.98        9.06759  (12121008)
        480151.50   3774863.98        9.70830  (12121008)                480201.50
3774863.98       10.37439  (12121008)
        480251.50   3774863.98       11.05515  (12121008)                480301.50
3774863.98       11.73074  (12121008)
        480351.50   3774863.98       12.38720  (12121008)                480401.50
3774863.98       12.99464  (12121008)
        480451.50   3774863.98       13.53163  (12121008)                480501.50
3774863.98       13.97258  (12121008)
        480551.50   3774863.98       14.29906  (12121008)                480601.50
3774863.98       14.49702  (12121008)
        480651.50   3774863.98       14.56214  (12121008)                480701.50
3774863.98       14.49523  (12121008)
        480751.50   3774863.98       14.31503  (12121008)                480801.50
3774863.98       14.03280  (12121008)
        480851.50   3774863.98       13.66822  (12121008)                480901.50
3774863.98       13.24605  (12121008)
        480951.50   3774863.98       12.78312  (12121008)                481001.50
3774863.98       12.30016  (12121008)
        481051.50   3774863.98       11.80952  (12121008)                481101.50
3774863.98       11.32174  (12121008)
        481151.50   3774863.98       10.84250  (12121008)                481201.50
3774863.98       10.37738  (12121008)
        481251.50   3774863.98        9.92257  (12121008)                481301.50
3774863.98        9.48202  (12121008)
        481351.50   3774863.98        9.05624  (12121008)                481401.50
3774863.98        8.64382  (12121008)
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479701.50	3774913.98	5.08911	(12121008)	479751.50	3774913.98	5.40322	(12121008)
479801.50	3774913.98	5.74589	(12121008)	479851.50	3774913.98	6.11352	(12121008)
479901.50	3774913.98	6.51116	(12121008)	479951.50	3774913.98	6.93932	(12121008)
480001.50	3774913.98	7.39779	(12121008)	480051.50	3774913.98	7.88366	(12121008)
480101.50	3774913.98	8.39481	(12121008)	480151.50	3774913.98	8.93073	(12121008)
480201.50	3774913.98	9.47771	(12121008)	480251.50	3774913.98	10.03285	(12121008)

480301.50 3774913.98 10.57615 (12121008) 480351.50
3774913.98 11.09906 (12121008)
480401.50 3774913.98 11.58077 (12121008) 480451.50
3774913.98 12.00273 (12121008)
480501.50 3774913.98 12.35174 (12121008) 480551.50
3774913.98 12.61266 (12121008)
480601.50 3774913.98 12.77718 (12121008) 480651.50
3774913.98 12.84111 (12121008)
480701.50 3774913.98 12.80605 (12121008) 480751.50
3774913.98 12.68224 (12121008)
480801.50 3774913.98 12.47865 (12121008) 480851.50
3774913.98 12.20886 (12121008)
480901.50 3774913.98 11.88661 (12121008) 480951.50
3774913.98 11.52732 (12121008)
481001.50 3774913.98 11.14376 (12121008) 481051.50
3774913.98 10.74615 (12121008)
481101.50 3774913.98 10.34284 (12121008) 481151.50
3774913.98 9.94390 (12121008)
481201.50 3774913.98 9.54588 (12121008) 481251.50
3774913.98 9.15751 (12121008)
481301.50 3774913.98 8.77647 (12121008) 481351.50
3774913.98 8.40313 (12121008)
481401.50 3774913.98 8.03868 (12121008) 481451.50
3774913.98 7.68331 (12121008)
481501.50 3774913.98 7.33854 (12121008) 479301.50
3774963.98 3.21560 (12121008)
479351.50 3774963.98 3.37596 (12121008) 479401.50
3774963.98 3.54659 (12121008)
479451.50 3774963.98 3.73166 (12121008) 479501.50
3774963.98 3.92908 (12121008)
479551.50 3774963.98 4.14323 (12121008) 479601.50
3774963.98 4.37197 (12121008)
479651.50 3774963.98 4.61831 (12121008) 479701.50
3774963.98 4.88552 (12121008)
479751.50 3774963.98 5.17168 (12121008) 479801.50
3774963.98 5.47964 (12121008)
479851.50 3774963.98 5.80826 (12121008) 479901.50
3774963.98 6.16061 (12121008)
479951.50 3774963.98 6.53643 (12121008) 480001.50
3774963.98 6.93478 (12121008)
480051.50 3774963.98 7.35239 (12121008) 480101.50
3774963.98 7.78685 (12121008)
480151.50 3774963.98 8.23741 (12121008) 480201.50
3774963.98 8.69191 (12121008)
480251.50 3774963.98 9.14851 (12121008) 480301.50
3774963.98 9.59097 (12121008)
480351.50 3774963.98 10.01364 (12121008) 480401.50
3774963.98 10.40087 (12121008)
480451.50 3774963.98 10.73928 (12121008) 480501.50
3774963.98 11.02016 (12121008)
480551.50 3774963.98 11.23239 (12121008) 480601.50

3774963.98   11.37076 (12121008)
        480651.50   3774963.98   11.43167 (12121008)   480701.50
3774963.98   11.41599 (12121008)
        480751.50   3774963.98   11.32994 (12121008)   480801.50
3774963.98   11.18178 (12121008)
        480851.50   3774963.98   10.97805 (12121008)   480901.50
3774963.98   10.72777 (12121008)
        480951.50   3774963.98   10.44402 (12121008)   481001.50
3774963.98   10.13603 (12121008)
        481051.50   3774963.98   9.81144 (12121008)   481101.50
3774963.98   9.47962 (12121008)
        481151.50   3774963.98   9.14167 (12121008)   481201.50
3774963.98   8.80519 (12121008)
        481251.50   3774963.98   8.46943 (12121008)   481301.50
3774963.98   8.13794 (12121008)
        481351.50   3774963.98   7.81154 (12121008)   481401.50
3774963.98   7.49120 (12121008)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        481451.50   3774963.98   7.17746 (12121008)   480801.50
3775013.98   10.08537 (12121008)
        480851.50   3775013.98   9.92846 (12121008)   480901.50
3775013.98   9.73336 (12121008)
        480951.50   3775013.98   9.50783 (12121008)   481001.50

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3775013.98        9.25853  (12121008)
        481051.50   3775013.98        8.99157  (12121008)               481101.50
3775013.98        8.71309  (12121008)
        481151.50   3775013.98        8.43010  (12121008)               481201.50
3775013.98        8.14100  (12121008)
        481251.50   3775013.98        7.85101  (12121008)               481301.50
3775013.98        7.56218  (12121008)
        481351.50   3775013.98        7.27562  (12121008)               481401.50
3775013.98        6.99514  (12121008)
        481451.50   3775013.98        6.71795  (12121008)               480801.50
3775063.98        9.14994  (12121008)
        480851.50   3775063.98        9.02803  (12121008)               480901.50
3775063.98        8.87313  (12121008)
        480951.50   3775063.98        8.69123  (12121008)               481001.50
3775063.98        8.48769  (12121008)
        481051.50   3775063.98        8.26692  (12121008)               481101.50
3775063.98        8.03422  (12121008)
        481151.50   3775063.98        7.79314  (12121008)               481201.50
3775063.98        7.54637  (12121008)
        481251.50   3775063.98        7.29409  (12121008)               481301.50
3775063.98        7.04175  (12121008)
        481351.50   3775063.98        6.79007  (12121008)               481401.50
3775063.98        6.54047  (12121008)
        481451.50   3775063.98        6.29877  (12121008)               480801.50
3775113.98        8.34548  (12121008)
        480851.50   3775113.98        8.24892  (12121008)               480901.50
3775113.98        8.12445  (12121008)
        480951.50   3775113.98        7.97669  (12121008)               481001.50
3775113.98        7.80885  (12121008)
        481051.50   3775113.98        7.62425  (12121008)               481101.50
3775113.98        7.42739  (12121008)
        481151.50   3775113.98        7.22136  (12121008)               481201.50
3775113.98        7.00857  (12121008)
        481251.50   3775113.98        6.79025  (12121008)               481301.50
3775113.98        6.56960  (12121008)
        481351.50   3775113.98        6.34918  (12121008)               481401.50
3775113.98        6.12909  (12121008)
        481451.50   3775113.98        5.91418  (12121008)               480801.50
3775163.98        7.64756  (12121008)
        480851.50   3775163.98        7.57072  (12121008)               480901.50
3775163.98        7.46942  (12121008)
        480951.50   3775163.98        7.34807  (12121008)               481001.50
3775163.98        7.20804  (12121008)
        481051.50   3775163.98        7.05263  (12121008)               481101.50
3775163.98        6.88512  (12121008)
        481151.50   3775163.98        6.70694  (12121008)               481201.50
3775163.98        6.52394  (12121008)
        481251.50   3775163.98        6.33364  (12121008)               481301.50
3775163.98        6.14113  (12121008)
        481351.50   3775163.98        5.94754  (12121008)               481401.50
3775163.98        5.75284  (12121008)
```

```
        481451.50   3775163.98        5.56000  (12121008)               480801.50
3775213.98        7.03713  (12121008)
        480851.50   3775213.98        6.97494  (12121008)               480901.50
3775213.98        6.89226  (12121008)
        480951.50   3775213.98        6.79120  (12121008)               481001.50
3775213.98        6.67432  (12121008)
        481051.50   3775213.98        6.54353  (12121008)               481101.50
3775213.98        6.39917  (12121008)
        481151.50   3775213.98        6.24595  (12121008)               481201.50
3775213.98        6.08633  (12121008)
        481251.50   3775213.98        5.91876  (12121008)               481301.50
3775213.98        5.75153  (12121008)
        481351.50   3775213.98        5.58101  (12121008)               481401.50
3775213.98        5.40543  (12121008)
        481451.50   3775213.98        5.23134  (12121008)               480801.50
3775263.98        6.50031  (12121008)
        480851.50   3775263.98        6.44977  (12121008)               480901.50
3775263.98        6.38113  (12121008)
        480951.50   3775263.98        6.29625  (12121008)               481001.50
3775263.98        6.19851  (12121008)
        481051.50   3775263.98        6.08503  (12121008)               481101.50
3775263.98        5.96138  (12121008)
        481151.50   3775263.98        5.82895  (12121008)               481201.50
3775263.98        5.68793  (12121008)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***        04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:12:32

                                    PAGE 355
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
```

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 - - -
```

3775463.98 4.66085 (12121008)
  481101.50 3775463.98 4.58789 (12121008) 481151.50
3775463.98 4.51124 (12121008)
  481201.50 3775463.98 4.42460 (12121008) 481251.50
3775463.98 4.33737 (12121008)
  481301.50 3775463.98 4.24626 (12121008) 481351.50
3775463.98 4.15308 (12121008)
  481401.50 3775463.98 4.05017 (12121008) 480801.50
3775513.98 4.58259 (12121008)
  480851.50 3775513.98 4.55934 (12121008) 480901.50
3775513.98 4.52595 (12121008)
  480951.50 3775513.98 4.48704 (12121008) 481001.50
3775513.98 4.43614 (12121008)
  481051.50 3775513.98 4.38146 (12121008) 481101.50
3775513.98 4.32003 (12121008)
  481151.50 3775513.98 4.24775 (12121008) 481201.50
3775513.98 4.17477 (12121008)
  481251.50 3775513.98 4.09401 (12121008) 481301.50
3775513.98 4.01675 (12121008)
  481351.50 3775513.98 3.93256 (12121008) 481401.50
3775513.98 3.83701 (12121008)
  480801.50 3775563.98 4.30391 (12121008) 480851.50
3775563.98 4.28517 (12121008)
  480901.50 3775563.98 4.25713 (12121008) 480951.50
3775563.98 4.22174 (12121008)
  481001.50 3775563.98 4.17819 (12121008) 481051.50
3775563.98 4.12958 (12121008)
  481101.50 3775563.98 4.07214 (12121008) 481151.50
3775563.98 4.01130 (12121008)
  481201.50 3775563.98 3.94338 (12121008) 481251.50
3775563.98 3.87198 (12121008)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3775563.98	3.79957	(12121008)	481351.50	3775563.98	3.71740	(12121008)
481401.50	3775563.98	3.63221	(12121008)	479332.46	3774240.22	15.32673	(14011308)
479382.46	3774240.22	16.12886	(14011308)	479432.46	3774240.22	17.09046	(14011308)
479482.46	3774240.22	18.05015	(14011308)	479532.46	3774240.22	19.22823	(14011308)
479582.46	3774240.22	20.40821	(14011308)	479632.46	3774240.22	21.78019	(14011308)
479682.46	3774240.22	23.34369	(14011308)	479732.46	3774240.22	25.00318	(14011308)
479782.46	3774240.22	27.08142	(14011308)	479832.46	3774240.22	29.24039	(14011308)
479882.46	3774240.22	31.71182	(14011308)	479932.46	3774240.22	34.56336	(14011308)
479332.46	3774290.22	14.43386	(14011308)	479382.46	3774290.22	15.27398	(14011308)
479432.46	3774290.22	16.10469	(14011308)	479482.46	3774290.22	17.02383	(14011308)
479532.46	3774290.22	18.14090	(14011308)	479582.46	3774290.22	19.27118	(14011308)
479632.46	3774290.22	20.67074	(14011308)	479682.46	3774290.22	22.10220	(14011308)
479732.46	3774290.22	23.73582	(14011308)	479782.46	3774290.22	25.73804	(14011308)
479832.46	3774290.22	27.89213	(14011308)	479882.46	3774290.22	30.36849	(14011308)
479932.46	3774290.22	33.42143	(14011308)	479332.46	3774340.22	13.10823	(14011308)
479382.46	3774340.22	13.84650	(14011308)	479432.46	3774340.22	14.57187	(14011308)
479482.46	3774340.22	15.40730	(14011308)	479532.46	3774340.22	16.34734	(14011308)
479582.46	3774340.22	17.32712	(14011308)	479632.46	3774340.22	18.54221	(14011308)
479682.46	3774340.22	19.78622	(14011308)	479732.46	3774340.22	21.31194	(14011308)
479782.46	3774340.22	22.89701	(14011308)	479832.46	3774340.22	24.74535	(14011308)
479882.46	3774340.22	26.99259	(14011308)	479932.46	3774340.22	29.58429	(14011308)

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        479332.46   3774390.22       11.50531  (14011308)                479382.46
3774390.22       12.07726  (14011308)
        479432.46   3774390.22       12.65669  (14011308)                479482.46
3774390.22       13.36868  (14011308)
        479532.46   3774390.22       14.06457  (14011308)                479582.46
3774390.22       14.89920  (14011308)
        479632.46   3774390.22       15.77223  (14011308)                479682.46
3774390.22       16.82483  (14011308)
        479732.46   3774390.22       17.88285  (14011308)                479782.46
3774390.22       19.06494  (14011308)
        479832.46   3774390.22       20.47594  (14011308)                479882.46
3774390.22       22.08111  (14011308)
        479932.46   3774390.22       23.91235  (14011308)

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm CSTN
                          ***                04/14/23
 *** AERMET - VERSION  16216 ***   ***
                         ***               09:12:32

                                    PAGE 357
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **


                        NETWORK
GROUP ID                        AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ONSITE    1ST HIGHEST VALUE IS       1.30609 AT (  480551.50,  3774413.98,   361.05,
  361.05,    0.00)  DC
          2ND HIGHEST VALUE IS       1.30453 AT (  480501.50,  3774413.98,   360.39,
  360.39,    0.00)  DC
          3RD HIGHEST VALUE IS       1.24454 AT (  480601.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
          4TH HIGHEST VALUE IS       1.13846 AT (  480651.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
          5TH HIGHEST VALUE IS       1.06346 AT (  480451.50,  3774413.98,   360.00,
  360.00,    0.00)  DC
          6TH HIGHEST VALUE IS       0.93826 AT (  480701.50,  3774413.98,   363.00,
  363.00,    0.00)  DC
          7TH HIGHEST VALUE IS       0.87312 AT (  480441.34,  3774196.20,   360.00,
  360.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.77995 AT (  480415.97,  3774200.25,   360.00,
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  360.00,    0.00)  DC
         9TH HIGHEST VALUE IS       0.57954 AT (  480401.50,  3774413.98,   359.30,
  359.30,    0.00)  DC
        10TH HIGHEST VALUE IS       0.54455 AT (  480751.50,  3774413.98,   363.00,
  363.00,    0.00)  DC

OFFSITE   1ST HIGHEST VALUE IS       0.47752 AT (  480751.50,  3774413.98,   363.00,
  363.00,    0.00)  DC
         2ND HIGHEST VALUE IS       0.28924 AT (  480701.50,  3774413.98,   363.00,
  363.00,    0.00)  DC
         3RD HIGHEST VALUE IS       0.24782 AT (  480801.50,  3774413.98,   364.00,
  364.00,    0.00)  DC
         4TH HIGHEST VALUE IS       0.15827 AT (  480851.50,  3774413.98,   364.00,
  364.00,    0.00)  DC
         5TH HIGHEST VALUE IS       0.14833 AT (  480751.50,  3774463.98,   363.00,
  363.00,    0.00)  DC
         6TH HIGHEST VALUE IS       0.14792 AT (  480651.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
         7TH HIGHEST VALUE IS       0.13050 AT (  480701.50,  3774463.98,   363.00,
  363.00,    0.00)  DC
         8TH HIGHEST VALUE IS       0.12713 AT (  480801.50,  3774463.98,   364.00,
  364.00,    0.00)  DC
         9TH HIGHEST VALUE IS       0.12170 AT (  480901.50,  3774413.98,   364.72,
  364.72,    0.00)  DC
        10TH HIGHEST VALUE IS       0.10393 AT (  480851.50,  3774463.98,   364.00,
  364.00,    0.00)  DC

ALL       1ST HIGHEST VALUE IS       1.37143 AT (  480551.50,  3774413.98,   361.05,
  361.05,    0.00)  DC
         2ND HIGHEST VALUE IS       1.35385 AT (  480501.50,  3774413.98,   360.39,
  360.39,    0.00)  DC
         3RD HIGHEST VALUE IS       1.33736 AT (  480601.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
         4TH HIGHEST VALUE IS       1.28638 AT (  480651.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
         5TH HIGHEST VALUE IS       1.22750 AT (  480701.50,  3774413.98,   363.00,
  363.00,    0.00)  DC
         6TH HIGHEST VALUE IS       1.10254 AT (  480451.50,  3774413.98,   360.00,
  360.00,    0.00)  DC
         7TH HIGHEST VALUE IS       1.02206 AT (  480751.50,  3774413.98,   363.00,
  363.00,    0.00)  DC
         8TH HIGHEST VALUE IS       0.91955 AT (  480441.34,  3774196.20,   360.00,
  360.00,    0.00)  DC
         9TH HIGHEST VALUE IS       0.82104 AT (  480415.97,  3774200.25,   360.00,
  360.00,    0.00)  DC
        10TH HIGHEST VALUE IS       0.61162 AT (  480401.50,  3774413.98,   359.30,
  359.30,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
```

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ONSITE	HIGH	1ST HIGH VALUE IS	152.82257	ON 12121008: AT (480551.50, 3774413.98, 361.05, 361.05, 0.00)	DC	
OFFSITE	HIGH	1ST HIGH VALUE IS	56.54098	ON 12121008: AT (480751.50, 3774413.98, 363.00, 363.00, 0.00)	DC	
ALL	HIGH	1ST HIGH VALUE IS	168.19721	ON 12121008: AT (480551.50, 3774413.98, 361.05, 361.05, 0.00)	DC	

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)

```
A Total of            2 Warning Message(s)
A Total of          388 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          191 Calm Hours Identified

A Total of          197 Missing Hours Identified (  0.45 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    6423       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187    6423       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/13/2023
** File: C:\Lakes\Highland_Meines&Palm_Op\Highland_Meines&Palm_Op.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Highland, Meines&Palm OP
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL Highland_Meines&Palm_Op.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC OnSite Drive
** PREFIX
** Length of Side = 8.80
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 480416.709, 3774234.258, 359.95, 0.00, 4.09
** 480414.567, 3774350.806, 359.48, 0.00, 4.09
** 480452.273, 3774364.517, 360.00, 0.00, 4.09
** 480729.076, 3774364.089, 363.00, 0.00, 4.09
** ------------------------------------------------------------------------
```

```
   LOCATION L0002111     VOLUME   480416.628 3774238.657 360.00
   LOCATION L0002112     VOLUME   480416.466 3774247.455 360.00
   LOCATION L0002113     VOLUME   480416.305 3774256.254 360.00
   LOCATION L0002114     VOLUME   480416.143 3774265.052 360.00
   LOCATION L0002115     VOLUME   480415.981 3774273.851 360.00
   LOCATION L0002116     VOLUME   480415.820 3774282.649 360.00
   LOCATION L0002117     VOLUME   480415.658 3774291.448 360.00
   LOCATION L0002118     VOLUME   480415.496 3774300.246 360.00
   LOCATION L0002119     VOLUME   480415.334 3774309.045 360.00
   LOCATION L0002120     VOLUME   480415.173 3774317.843 359.97
   LOCATION L0002121     VOLUME   480415.011 3774326.642 359.83
   LOCATION L0002122     VOLUME   480414.849 3774335.440 359.68
   LOCATION L0002123     VOLUME   480414.687 3774344.239 359.53
   LOCATION L0002124     VOLUME   480416.664 3774351.569 359.56
   LOCATION L0002125     VOLUME   480424.934 3774354.576 359.83
   LOCATION L0002126     VOLUME   480433.205 3774357.583 360.00
   LOCATION L0002127     VOLUME   480441.475 3774360.591 360.00
   LOCATION L0002128     VOLUME   480449.745 3774363.598 360.00
   LOCATION L0002129     VOLUME   480458.383 3774364.508 360.00
   LOCATION L0002130     VOLUME   480467.183 3774364.494 360.00
   LOCATION L0002131     VOLUME   480475.983 3774364.481 360.00
   LOCATION L0002132     VOLUME   480484.783 3774364.467 360.00
   LOCATION L0002133     VOLUME   480493.583 3774364.453 360.12
   LOCATION L0002134     VOLUME   480502.383 3774364.440 360.42
   LOCATION L0002135     VOLUME   480511.183 3774364.426 360.71
   LOCATION L0002136     VOLUME   480519.983 3774364.413 361.00
   LOCATION L0002137     VOLUME   480528.783 3774364.399 361.00
   LOCATION L0002138     VOLUME   480537.583 3774364.385 361.00
   LOCATION L0002139     VOLUME   480546.383 3774364.372 361.00
   LOCATION L0002140     VOLUME   480555.183 3774364.358 361.18
   LOCATION L0002141     VOLUME   480563.983 3774364.344 361.47
   LOCATION L0002142     VOLUME   480572.783 3774364.331 361.76
   LOCATION L0002143     VOLUME   480581.583 3774364.317 362.00
   LOCATION L0002144     VOLUME   480590.383 3774364.304 362.00
   LOCATION L0002145     VOLUME   480599.183 3774364.290 362.00
   LOCATION L0002146     VOLUME   480607.983 3774364.276 362.00
   LOCATION L0002147     VOLUME   480616.783 3774364.263 362.00
   LOCATION L0002148     VOLUME   480625.583 3774364.249 362.00
   LOCATION L0002149     VOLUME   480634.383 3774364.236 362.00
   LOCATION L0002150     VOLUME   480643.183 3774364.222 362.00
   LOCATION L0002151     VOLUME   480651.983 3774364.208 362.00
   LOCATION L0002152     VOLUME   480660.783 3774364.195 362.00
   LOCATION L0002153     VOLUME   480669.583 3774364.181 362.00
   LOCATION L0002154     VOLUME   480678.383 3774364.167 362.28
   LOCATION L0002155     VOLUME   480687.183 3774364.154 362.58
   LOCATION L0002156     VOLUME   480695.983 3774364.140 362.87
   LOCATION L0002157     VOLUME   480704.783 3774364.127 363.00
   LOCATION L0002158     VOLUME   480713.583 3774364.113 363.00
   LOCATION L0002159     VOLUME   480722.383 3774364.099 363.00
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
```

```
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Palm Ave btwn Project & 5th St
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.177817165
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 480743.216, 3774364.517, 363.00, 3.11, 10.23
** 480740.645, 3774137.420, 363.20, 3.11, 10.23
** ----------------------------------------------------------------
   LOCATION L0002957     VOLUME   480743.091 3774353.518 363.00
   LOCATION L0002958     VOLUME   480742.842 3774331.520 363.00
   LOCATION L0002959     VOLUME   480742.593 3774309.521 363.00
   LOCATION L0002960     VOLUME   480742.344 3774287.522 363.00
   LOCATION L0002961     VOLUME   480742.095 3774265.524 363.00
   LOCATION L0002962     VOLUME   480741.846 3774243.525 363.00
   LOCATION L0002963     VOLUME   480741.597 3774221.527 363.00
   LOCATION L0002964     VOLUME   480741.348 3774199.528 363.00
   LOCATION L0002965     VOLUME   480741.099 3774177.529 363.00
   LOCATION L0002966     VOLUME   480740.850 3774155.531 363.13
** End of LINE VOLUME Source ID = SLINE5
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC 5th St e/o Palm
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.710250771
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 480739.797, 3774134.922, 363.17, 3.11, 10.23
** 481141.534, 3774104.985, 367.87, 3.11, 10.23
** 481644.671, 3774138.785, 373.95, 3.11, 10.23
** ----------------------------------------------------------------
   LOCATION L0002967     VOLUME   480750.767 3774134.105 363.70
   LOCATION L0002968     VOLUME   480772.706 3774132.470 364.00
   LOCATION L0002969     VOLUME   480794.645 3774130.835 364.00
   LOCATION L0002970     VOLUME   480816.584 3774129.200 364.00
   LOCATION L0002971     VOLUME   480838.523 3774127.565 364.18
   LOCATION L0002972     VOLUME   480860.462 3774125.931 364.58
   LOCATION L0002973     VOLUME   480882.402 3774124.296 365.00
   LOCATION L0002974     VOLUME   480904.341 3774122.661 365.00
   LOCATION L0002975     VOLUME   480926.280 3774121.026 365.00
   LOCATION L0002976     VOLUME   480948.219 3774119.391 365.28
   LOCATION L0002977     VOLUME   480970.158 3774117.756 366.00
   LOCATION L0002978     VOLUME   480992.097 3774116.121 366.00
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   LOCATION L0002979     VOLUME   481014.037 3774114.486 366.00
   LOCATION L0002980     VOLUME   481035.976 3774112.851 366.20
   LOCATION L0002981     VOLUME   481057.915 3774111.217 366.93
   LOCATION L0002982     VOLUME   481079.854 3774109.582 367.00
   LOCATION L0002983     VOLUME   481101.793 3774107.947 367.00
   LOCATION L0002984     VOLUME   481123.732 3774106.312 367.13
   LOCATION L0002985     VOLUME   481145.674 3774105.263 367.86
   LOCATION L0002986     VOLUME   481167.624 3774106.738 368.00
   LOCATION L0002987     VOLUME   481189.575 3774108.213 368.00
   LOCATION L0002988     VOLUME   481211.525 3774109.687 368.05
   LOCATION L0002989     VOLUME   481233.476 3774111.162 368.79
   LOCATION L0002990     VOLUME   481255.426 3774112.636 369.00
   LOCATION L0002991     VOLUME   481277.377 3774114.111 369.00
   LOCATION L0002992     VOLUME   481299.327 3774115.586 369.00
   LOCATION L0002993     VOLUME   481321.278 3774117.060 369.71
   LOCATION L0002994     VOLUME   481343.229 3774118.535 370.00
   LOCATION L0002995     VOLUME   481365.179 3774120.009 370.00
   LOCATION L0002996     VOLUME   481387.130 3774121.484 370.00
   LOCATION L0002997     VOLUME   481409.080 3774122.959 370.64
   LOCATION L0002998     VOLUME   481431.031 3774124.433 371.00
   LOCATION L0002999     VOLUME   481452.981 3774125.908 371.04
   LOCATION L0003000     VOLUME   481474.932 3774127.382 371.25
   LOCATION L0003001     VOLUME   481496.882 3774128.857 371.67
   LOCATION L0003002     VOLUME   481518.833 3774130.332 372.00
   LOCATION L0003003     VOLUME   481540.783 3774131.806 372.00
   LOCATION L0003004     VOLUME   481562.734 3774133.281 372.08
   LOCATION L0003005     VOLUME   481584.684 3774134.755 372.52
   LOCATION L0003006     VOLUME   481606.635 3774136.230 373.22
   LOCATION L0003007     VOLUME   481628.585 3774137.705 373.91
** End of LINE VOLUME Source ID = SLINE6
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Building Idle
** PREFIX
** Length of Side = 8.80
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 480497.136, 3774348.979, 360.08, 3.11, 4.09
** 480638.302, 3774348.475, 362.00, 3.11, 4.09
** ----------------------------------------------------------------------
   LOCATION L0001976     VOLUME   480501.536 3774348.963 360.39
   LOCATION L0001977     VOLUME   480510.336 3774348.932 360.68
   LOCATION L0001978     VOLUME   480519.136 3774348.900 360.97
   LOCATION L0001979     VOLUME   480527.935 3774348.869 361.00
   LOCATION L0001980     VOLUME   480536.735 3774348.838 361.00
   LOCATION L0001981     VOLUME   480545.535 3774348.806 361.00
   LOCATION L0001982     VOLUME   480554.335 3774348.775 361.15
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   LOCATION L0001983     VOLUME   480563.135 3774348.743 361.44
   LOCATION L0001984     VOLUME   480571.935 3774348.712 361.73
   LOCATION L0001985     VOLUME   480580.735 3774348.680 362.00
   LOCATION L0001986     VOLUME   480589.535 3774348.649 362.00
   LOCATION L0001987     VOLUME   480598.335 3774348.618 362.00
   LOCATION L0001988     VOLUME   480607.135 3774348.586 362.00
   LOCATION L0001989     VOLUME   480615.935 3774348.555 362.00
   LOCATION L0001990     VOLUME   480624.735 3774348.523 362.00
   LOCATION L0001991     VOLUME   480633.535 3774348.492 362.00
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Equipment
** PREFIX
** Length of Side = 8.80
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 480496.127, 3774341.417, 360.09, 3.11, 4.09
** 480636.789, 3774341.417, 362.00, 3.11, 4.09
** ----------------------------------------------------------------------
   LOCATION L0001992     VOLUME   480500.527 3774341.417 360.35
   LOCATION L0001993     VOLUME   480509.327 3774341.417 360.65
   LOCATION L0001994     VOLUME   480518.127 3774341.417 360.94
   LOCATION L0001995     VOLUME   480526.927 3774341.417 361.00
   LOCATION L0001996     VOLUME   480535.727 3774341.417 361.00
   LOCATION L0001997     VOLUME   480544.527 3774341.417 361.00
   LOCATION L0001998     VOLUME   480553.327 3774341.417 361.11
   LOCATION L0001999     VOLUME   480562.127 3774341.417 361.41
   LOCATION L0002000     VOLUME   480570.927 3774341.417 361.70
   LOCATION L0002001     VOLUME   480579.727 3774341.417 361.99
   LOCATION L0002002     VOLUME   480588.527 3774341.417 362.00
   LOCATION L0002003     VOLUME   480597.327 3774341.417 362.00
   LOCATION L0002004     VOLUME   480606.127 3774341.417 362.00
   LOCATION L0002005     VOLUME   480614.927 3774341.417 362.00
   LOCATION L0002006     VOLUME   480623.727 3774341.417 362.00
   LOCATION L0002007     VOLUME   480632.527 3774341.417 362.00
** End of LINE VOLUME Source ID = SLINE9
   LOCATION STCK1        POINT      480472.940  3774351.500      360.000
** DESCRSRC Emergency Generator
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Meines
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 0.111932065
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** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 480416.278, 3774230.271, 359.95, 0.00, 4.65
** 480721.386, 3774213.558, 363.00, 0.00, 4.65
** 480725.922, 3774213.309, 363.00, 0.00, 4.65
** 480728.828, 3774213.150, 363.00, 0.00, 4.65
** ----------------------------------------------------------------
   LOCATION L0003008     VOLUME   480421.271 3774229.997 360.00
   LOCATION L0003009     VOLUME   480431.256 3774229.451 360.00
   LOCATION L0003010     VOLUME   480441.241 3774228.904 360.00
   LOCATION L0003011     VOLUME   480451.226 3774228.357 360.00
   LOCATION L0003012     VOLUME   480461.211 3774227.810 360.04
   LOCATION L0003013     VOLUME   480471.196 3774227.263 360.38
   LOCATION L0003014     VOLUME   480481.181 3774226.716 360.71
   LOCATION L0003015     VOLUME   480491.166 3774226.169 361.00
   LOCATION L0003016     VOLUME   480501.151 3774225.622 360.99
   LOCATION L0003017     VOLUME   480511.136 3774225.075 360.99
   LOCATION L0003018     VOLUME   480521.121 3774224.528 361.00
   LOCATION L0003019     VOLUME   480531.106 3774223.981 361.00
   LOCATION L0003020     VOLUME   480541.091 3774223.434 361.00
   LOCATION L0003021     VOLUME   480551.076 3774222.887 361.04
   LOCATION L0003022     VOLUME   480561.061 3774222.340 361.37
   LOCATION L0003023     VOLUME   480571.046 3774221.793 361.71
   LOCATION L0003024     VOLUME   480581.031 3774221.246 362.00
   LOCATION L0003025     VOLUME   480591.016 3774220.699 362.00
   LOCATION L0003026     VOLUME   480601.001 3774220.152 362.00
   LOCATION L0003027     VOLUME   480610.986 3774219.605 362.00
   LOCATION L0003028     VOLUME   480620.972 3774219.058 362.00
   LOCATION L0003029     VOLUME   480630.957 3774218.511 362.00
   LOCATION L0003030     VOLUME   480640.942 3774217.964 362.00
   LOCATION L0003031     VOLUME   480650.927 3774217.417 362.00
   LOCATION L0003032     VOLUME   480660.912 3774216.870 362.00
   LOCATION L0003033     VOLUME   480670.897 3774216.323 362.03
   LOCATION L0003034     VOLUME   480680.882 3774215.776 362.37
   LOCATION L0003035     VOLUME   480690.867 3774215.229 362.70
   LOCATION L0003036     VOLUME   480700.852 3774214.682 363.00
   LOCATION L0003037     VOLUME   480710.837 3774214.135 363.00
   LOCATION L0003038     VOLUME   480720.822 3774213.589 363.00
** End of LINE VOLUME Source ID = SLINE7
** Source Parameters **
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002111     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002112     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002113     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002114     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002115     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002116     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002117     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002118     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002119     0.0204081633      0.00      4.09      2.89
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   SRCPARAM L0002120     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002121     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002122     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002123     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002124     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002125     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002126     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002127     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002128     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002129     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002130     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002131     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002132     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002133     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002134     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002135     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002136     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002137     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002138     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002139     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002140     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002141     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002142     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002143     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002144     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002145     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002146     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002147     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002148     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002149     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002150     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002151     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002152     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002153     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002154     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002155     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002156     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002157     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002158     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002159     0.0204081633      0.00      4.09      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002957     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002958     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002959     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002960     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002961     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002962     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002963     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002964     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002965     0.0177817165      3.11     10.23      2.89
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   SRCPARAM L0002966     0.0177817165      3.11     10.23      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0002967     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002968     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002969     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002970     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002971     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002972     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002973     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002974     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002975     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002976     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002977     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002978     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002979     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002980     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002981     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002982     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002983     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002984     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002985     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002986     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002987     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002988     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002989     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002990     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002991     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002992     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002993     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002994     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002995     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002996     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002997     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002998     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002999     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003000     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003001     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003002     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003003     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003004     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003005     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003006     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003007     0.0173231895      3.11     10.23      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0001976        0.0625      3.11      4.09      2.89
   SRCPARAM L0001977        0.0625      3.11      4.09      2.89
   SRCPARAM L0001978        0.0625      3.11      4.09      2.89
   SRCPARAM L0001979        0.0625      3.11      4.09      2.89
   SRCPARAM L0001980        0.0625      3.11      4.09      2.89
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   SRCPARAM L0001981        0.0625      3.11      4.09      2.89
   SRCPARAM L0001982        0.0625      3.11      4.09      2.89
   SRCPARAM L0001983        0.0625      3.11      4.09      2.89
   SRCPARAM L0001984        0.0625      3.11      4.09      2.89
   SRCPARAM L0001985        0.0625      3.11      4.09      2.89
   SRCPARAM L0001986        0.0625      3.11      4.09      2.89
   SRCPARAM L0001987        0.0625      3.11      4.09      2.89
   SRCPARAM L0001988        0.0625      3.11      4.09      2.89
   SRCPARAM L0001989        0.0625      3.11      4.09      2.89
   SRCPARAM L0001990        0.0625      3.11      4.09      2.89
   SRCPARAM L0001991        0.0625      3.11      4.09      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0001992        0.0625      3.11      4.09      2.89
   SRCPARAM L0001993        0.0625      3.11      4.09      2.89
   SRCPARAM L0001994        0.0625      3.11      4.09      2.89
   SRCPARAM L0001995        0.0625      3.11      4.09      2.89
   SRCPARAM L0001996        0.0625      3.11      4.09      2.89
   SRCPARAM L0001997        0.0625      3.11      4.09      2.89
   SRCPARAM L0001998        0.0625      3.11      4.09      2.89
   SRCPARAM L0001999        0.0625      3.11      4.09      2.89
   SRCPARAM L0002000        0.0625      3.11      4.09      2.89
   SRCPARAM L0002001        0.0625      3.11      4.09      2.89
   SRCPARAM L0002002        0.0625      3.11      4.09      2.89
   SRCPARAM L0002003        0.0625      3.11      4.09      2.89
   SRCPARAM L0002004        0.0625      3.11      4.09      2.89
   SRCPARAM L0002005        0.0625      3.11      4.09      2.89
   SRCPARAM L0002006        0.0625      3.11      4.09      2.89
   SRCPARAM L0002007        0.0625      3.11      4.09      2.89
** ----------------------------------------------------------------------
   SRCPARAM STCK1             1.0     5.000   763.850 223.611190744084      0.23

** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0003008     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003009     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003010     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003011     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003012     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003013     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003014     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003015     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003016     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003017     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003018     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003019     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003020     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003021     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003022     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003023     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003024     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003025     0.0036107118      0.00      4.65      2.89
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   SRCPARAM L0003026     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003027     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003028     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003029     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003030     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003031     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003032     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003033     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003034     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003035     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003036     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003037     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003038     0.0036107118      0.00      4.65      2.89
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24

   BUILDWID STCK1         262.81   269.97   268.93   259.72   242.62   218.14
   BUILDWID STCK1         187.04   150.25   108.90   149.77   186.45   217.46
   BUILDWID STCK1         241.87   258.93   268.12   269.16   262.03   248.02
   BUILDWID STCK1         262.81   269.97   268.93   259.72   242.61   218.14
   BUILDWID STCK1         187.04   150.25   108.90   149.77   186.45   217.46
   BUILDWID STCK1         241.87   258.93   268.12   269.16   262.03   248.02

   BUILDLEN STCK1         149.77   186.45   217.46   241.87   258.93   268.12
   BUILDLEN STCK1         269.16   262.03   248.02   262.81   269.97   268.93
   BUILDLEN STCK1         259.72   242.61   218.14   187.04   150.25   108.90
   BUILDLEN STCK1         149.77   186.45   217.46   241.87   258.93   268.12
   BUILDLEN STCK1         269.16   262.03   248.02   262.81   269.97   268.93
   BUILDLEN STCK1         259.72   242.61   218.14   187.04   150.25   108.90

   XBADJ    STCK1        -115.41  -115.25  -111.59  -104.53   -94.30   -81.20
   XBADJ    STCK1         -65.64   -48.08   -30.15   -29.14   -27.25   -24.53
   XBADJ    STCK1         -21.06   -16.95   -12.33    -7.33    -2.11     3.17
   XBADJ    STCK1         -34.36   -71.20  -105.88  -137.34  -164.63  -186.92
   XBADJ    STCK1        -203.52  -213.95  -217.87  -233.67  -242.72  -244.40
   XBADJ    STCK1        -238.66  -225.66  -205.81  -179.70  -148.14  -112.07

   YBADJ    STCK1        -102.26  -107.74  -109.94  -108.80  -104.36   -96.74
   YBADJ    STCK1         -86.19   -73.01   -57.62   -40.53   -22.03    -2.85
   YBADJ    STCK1          16.41    35.17    52.86    68.94    82.93    93.86
   YBADJ    STCK1         102.26   107.74   109.94   108.80   104.36    96.74
   YBADJ    STCK1          86.19    73.01    57.62    40.53    22.03     2.85
   YBADJ    STCK1         -16.41   -35.17   -52.86   -68.94   -82.93   -93.86
```

```
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ONSITERU L0002111 L0002112 L0002113 L0002114 L0002115 L0002116
   SRCGROUP ONSITERU L0002117 L0002118 L0002119 L0002120 L0002121 L0002122
   SRCGROUP ONSITERU L0002123 L0002124 L0002125 L0002126 L0002127 L0002128
   SRCGROUP ONSITERU L0002129 L0002130 L0002131 L0002132 L0002133 L0002134
   SRCGROUP ONSITERU L0002135 L0002136 L0002137 L0002138 L0002139 L0002140
   SRCGROUP ONSITERU L0002141 L0002142 L0002143 L0002144 L0002145 L0002146
   SRCGROUP ONSITERU L0002147 L0002148 L0002149 L0002150 L0002151 L0002152
   SRCGROUP ONSITERU L0002153 L0002154 L0002155 L0002156 L0002157 L0002158
   SRCGROUP ONSITERU L0002159
   SRCGROUP OFFSITE  L0002957 L0002958 L0002959 L0002960 L0002961 L0002962
   SRCGROUP OFFSITE  L0002963 L0002964 L0002965 L0002966 L0002967 L0002968
   SRCGROUP OFFSITE  L0002969 L0002970 L0002971 L0002972 L0002973 L0002974
   SRCGROUP OFFSITE  L0002975 L0002976 L0002977 L0002978 L0002979 L0002980
   SRCGROUP OFFSITE  L0002981 L0002982 L0002983 L0002984 L0002985 L0002986
   SRCGROUP OFFSITE  L0002987 L0002988 L0002989 L0002990 L0002991 L0002992
   SRCGROUP OFFSITE  L0002993 L0002994 L0002995 L0002996 L0002997 L0002998
   SRCGROUP OFFSITE  L0002999 L0003000 L0003001 L0003002 L0003003 L0003004
   SRCGROUP OFFSITE  L0003005 L0003006 L0003007 L0003008 L0003009 L0003010
   SRCGROUP OFFSITE  L0003011 L0003012 L0003013 L0003014 L0003015 L0003016
   SRCGROUP OFFSITE  L0003017 L0003018 L0003019 L0003020 L0003021 L0003022
   SRCGROUP OFFSITE  L0003023 L0003024 L0003025 L0003026 L0003027 L0003028
   SRCGROUP OFFSITE  L0003029 L0003030 L0003031 L0003032 L0003033 L0003034
   SRCGROUP OFFSITE  L0003035 L0003036 L0003037 L0003038
   SRCGROUP IDLE     L0001976 L0001977 L0001978 L0001979 L0001980 L0001981
   SRCGROUP IDLE     L0001982 L0001983 L0001984 L0001985 L0001986 L0001987
   SRCGROUP IDLE     L0001988 L0001989 L0001990 L0001991
```

```
   SRCGROUP EQUIP    L0001992 L0001993 L0001994 L0001995 L0001996 L0001997
   SRCGROUP EQUIP    L0001998 L0001999 L0002000 L0002001 L0002002 L0002003
   SRCGROUP EQUIP    L0002004 L0002005 L0002006 L0002007
   SRCGROUP GEN      STCK1
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Highland_Meines&Palm_Op.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE RDLD_v9.SFC
   PROFFILE RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 481.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1GALL.PLT 31
   PLOTFILE 1 ONSITERU 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G001.PLT 32
   PLOTFILE 1 OFFSITE 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G002.PLT 33
   PLOTFILE 1 IDLE 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G003.PLT 34
   PLOTFILE 1 EQUIP 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G004.PLT 35
   PLOTFILE 1 GEN 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G005.PLT 36
   PLOTFILE PERIOD ALL HIGHLAND_MEINES&PALM_OP.AD\PE00GALL.PLT 37
   PLOTFILE PERIOD ONSITERU HIGHLAND_MEINES&PALM_OP.AD\PE00G001.PLT 38
   PLOTFILE PERIOD OFFSITE HIGHLAND_MEINES&PALM_OP.AD\PE00G002.PLT 39
   PLOTFILE PERIOD IDLE HIGHLAND_MEINES&PALM_OP.AD\PE00G003.PLT 40
   PLOTFILE PERIOD EQUIP HIGHLAND_MEINES&PALM_OP.AD\PE00G004.PLT 41
   PLOTFILE PERIOD GEN HIGHLAND_MEINES&PALM_OP.AD\PE00G005.PLT 42
```

```
   SUMMFILE Highland_Meines&Palm_Op.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/13/2023
** File: C:\Lakes\Highland_Meines&Palm_Op\Highland_Meines&Palm_Op.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Highland, Meines&Palm OP
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL Highland_Meines&Palm_Op.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC OnSite Drive
** PREFIX
** Length of Side = 8.80
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 480416.709, 3774234.258, 359.95, 0.00, 4.09
** 480414.567, 3774350.806, 359.48, 0.00, 4.09
** 480452.273, 3774364.517, 360.00, 0.00, 4.09
** 480729.076, 3774364.089, 363.00, 0.00, 4.09
```

```
** ----------------------------------------------------------------
   LOCATION L0002111     VOLUME   480416.628 3774238.657 360.00
   LOCATION L0002112     VOLUME   480416.466 3774247.455 360.00
   LOCATION L0002113     VOLUME   480416.305 3774256.254 360.00
   LOCATION L0002114     VOLUME   480416.143 3774265.052 360.00
   LOCATION L0002115     VOLUME   480415.981 3774273.851 360.00
   LOCATION L0002116     VOLUME   480415.820 3774282.649 360.00
   LOCATION L0002117     VOLUME   480415.658 3774291.448 360.00
   LOCATION L0002118     VOLUME   480415.496 3774300.246 360.00
   LOCATION L0002119     VOLUME   480415.334 3774309.045 360.00
   LOCATION L0002120     VOLUME   480415.173 3774317.843 359.97
   LOCATION L0002121     VOLUME   480415.011 3774326.642 359.83
   LOCATION L0002122     VOLUME   480414.849 3774335.440 359.68
   LOCATION L0002123     VOLUME   480414.687 3774344.239 359.53
   LOCATION L0002124     VOLUME   480416.664 3774351.569 359.56
   LOCATION L0002125     VOLUME   480424.934 3774354.576 359.83
   LOCATION L0002126     VOLUME   480433.205 3774357.583 360.00
   LOCATION L0002127     VOLUME   480441.475 3774360.591 360.00
   LOCATION L0002128     VOLUME   480449.745 3774363.598 360.00
   LOCATION L0002129     VOLUME   480458.383 3774364.508 360.00
   LOCATION L0002130     VOLUME   480467.183 3774364.494 360.00
   LOCATION L0002131     VOLUME   480475.983 3774364.481 360.00
   LOCATION L0002132     VOLUME   480484.783 3774364.467 360.00
   LOCATION L0002133     VOLUME   480493.583 3774364.453 360.12
   LOCATION L0002134     VOLUME   480502.383 3774364.440 360.42
   LOCATION L0002135     VOLUME   480511.183 3774364.426 360.71
   LOCATION L0002136     VOLUME   480519.983 3774364.413 361.00
   LOCATION L0002137     VOLUME   480528.783 3774364.399 361.00
   LOCATION L0002138     VOLUME   480537.583 3774364.385 361.00
   LOCATION L0002139     VOLUME   480546.383 3774364.372 361.00
   LOCATION L0002140     VOLUME   480555.183 3774364.358 361.18
   LOCATION L0002141     VOLUME   480563.983 3774364.344 361.47
   LOCATION L0002142     VOLUME   480572.783 3774364.331 361.76
   LOCATION L0002143     VOLUME   480581.583 3774364.317 362.00
   LOCATION L0002144     VOLUME   480590.383 3774364.304 362.00
   LOCATION L0002145     VOLUME   480599.183 3774364.290 362.00
   LOCATION L0002146     VOLUME   480607.983 3774364.276 362.00
   LOCATION L0002147     VOLUME   480616.783 3774364.263 362.00
   LOCATION L0002148     VOLUME   480625.583 3774364.249 362.00
   LOCATION L0002149     VOLUME   480634.383 3774364.236 362.00
   LOCATION L0002150     VOLUME   480643.183 3774364.222 362.00
   LOCATION L0002151     VOLUME   480651.983 3774364.208 362.00
   LOCATION L0002152     VOLUME   480660.783 3774364.195 362.00
   LOCATION L0002153     VOLUME   480669.583 3774364.181 362.00
   LOCATION L0002154     VOLUME   480678.383 3774364.167 362.28
   LOCATION L0002155     VOLUME   480687.183 3774364.154 362.58
   LOCATION L0002156     VOLUME   480695.983 3774364.140 362.87
   LOCATION L0002157     VOLUME   480704.783 3774364.127 363.00
   LOCATION L0002158     VOLUME   480713.583 3774364.113 363.00
   LOCATION L0002159     VOLUME   480722.383 3774364.099 363.00
** End of LINE VOLUME Source ID = SLINE4
```

```
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Palm Ave btwn Project & 5th St
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.177817165
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 480743.216, 3774364.517, 363.00, 3.11, 10.23
** 480740.645, 3774137.420, 363.20, 3.11, 10.23
** ------------------------------------------------------------------
   LOCATION L0002957     VOLUME   480743.091 3774353.518 363.00
   LOCATION L0002958     VOLUME   480742.842 3774331.520 363.00
   LOCATION L0002959     VOLUME   480742.593 3774309.521 363.00
   LOCATION L0002960     VOLUME   480742.344 3774287.522 363.00
   LOCATION L0002961     VOLUME   480742.095 3774265.524 363.00
   LOCATION L0002962     VOLUME   480741.846 3774243.525 363.00
   LOCATION L0002963     VOLUME   480741.597 3774221.527 363.00
   LOCATION L0002964     VOLUME   480741.348 3774199.528 363.00
   LOCATION L0002965     VOLUME   480741.099 3774177.529 363.00
   LOCATION L0002966     VOLUME   480740.850 3774155.531 363.13
** End of LINE VOLUME Source ID = SLINE5
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC 5th St e/o Palm
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.710250771
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 480739.797, 3774134.922, 363.17, 3.11, 10.23
** 481141.534, 3774104.985, 367.87, 3.11, 10.23
** 481644.671, 3774138.785, 373.95, 3.11, 10.23
** ------------------------------------------------------------------
   LOCATION L0002967     VOLUME   480750.767 3774134.105 363.70
   LOCATION L0002968     VOLUME   480772.706 3774132.470 364.00
   LOCATION L0002969     VOLUME   480794.645 3774130.835 364.00
   LOCATION L0002970     VOLUME   480816.584 3774129.200 364.00
   LOCATION L0002971     VOLUME   480838.523 3774127.565 364.18
   LOCATION L0002972     VOLUME   480860.462 3774125.931 364.58
   LOCATION L0002973     VOLUME   480882.402 3774124.296 365.00
   LOCATION L0002974     VOLUME   480904.341 3774122.661 365.00
   LOCATION L0002975     VOLUME   480926.280 3774121.026 365.00
   LOCATION L0002976     VOLUME   480948.219 3774119.391 365.28
   LOCATION L0002977     VOLUME   480970.158 3774117.756 366.00
```

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   LOCATION L0002978     VOLUME   480992.097 3774116.121 366.00
   LOCATION L0002979     VOLUME   481014.037 3774114.486 366.00
   LOCATION L0002980     VOLUME   481035.976 3774112.851 366.20
   LOCATION L0002981     VOLUME   481057.915 3774111.217 366.93
   LOCATION L0002982     VOLUME   481079.854 3774109.582 367.00
   LOCATION L0002983     VOLUME   481101.793 3774107.947 367.00
   LOCATION L0002984     VOLUME   481123.732 3774106.312 367.13
   LOCATION L0002985     VOLUME   481145.674 3774105.263 367.86
   LOCATION L0002986     VOLUME   481167.624 3774106.738 368.00
   LOCATION L0002987     VOLUME   481189.575 3774108.213 368.00
   LOCATION L0002988     VOLUME   481211.525 3774109.687 368.05
   LOCATION L0002989     VOLUME   481233.476 3774111.162 368.79
   LOCATION L0002990     VOLUME   481255.426 3774112.636 369.00
   LOCATION L0002991     VOLUME   481277.377 3774114.111 369.00
   LOCATION L0002992     VOLUME   481299.327 3774115.586 369.00
   LOCATION L0002993     VOLUME   481321.278 3774117.060 369.71
   LOCATION L0002994     VOLUME   481343.229 3774118.535 370.00
   LOCATION L0002995     VOLUME   481365.179 3774120.009 370.00
   LOCATION L0002996     VOLUME   481387.130 3774121.484 370.00
   LOCATION L0002997     VOLUME   481409.080 3774122.959 370.64
   LOCATION L0002998     VOLUME   481431.031 3774124.433 371.00
   LOCATION L0002999     VOLUME   481452.981 3774125.908 371.04
   LOCATION L0003000     VOLUME   481474.932 3774127.382 371.25
   LOCATION L0003001     VOLUME   481496.882 3774128.857 371.67
   LOCATION L0003002     VOLUME   481518.833 3774130.332 372.00
   LOCATION L0003003     VOLUME   481540.783 3774131.806 372.00
   LOCATION L0003004     VOLUME   481562.734 3774133.281 372.08
   LOCATION L0003005     VOLUME   481584.684 3774134.755 372.52
   LOCATION L0003006     VOLUME   481606.635 3774136.230 373.22
   LOCATION L0003007     VOLUME   481628.585 3774137.705 373.91
** End of LINE VOLUME Source ID = SLINE6
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Building Idle
** PREFIX
** Length of Side = 8.80
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 480497.136, 3774348.979, 360.08, 3.11, 4.09
** 480638.302, 3774348.475, 362.00, 3.11, 4.09
** ----------------------------------------------------------------------
   LOCATION L0001976     VOLUME   480501.536 3774348.963 360.39
   LOCATION L0001977     VOLUME   480510.336 3774348.932 360.68
   LOCATION L0001978     VOLUME   480519.136 3774348.900 360.97
   LOCATION L0001979     VOLUME   480527.935 3774348.869 361.00
   LOCATION L0001980     VOLUME   480536.735 3774348.838 361.00
   LOCATION L0001981     VOLUME   480545.535 3774348.806 361.00
```

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   LOCATION L0001982     VOLUME   480554.335 3774348.775 361.15
   LOCATION L0001983     VOLUME   480563.135 3774348.743 361.44
   LOCATION L0001984     VOLUME   480571.935 3774348.712 361.73
   LOCATION L0001985     VOLUME   480580.735 3774348.680 362.00
   LOCATION L0001986     VOLUME   480589.535 3774348.649 362.00
   LOCATION L0001987     VOLUME   480598.335 3774348.618 362.00
   LOCATION L0001988     VOLUME   480607.135 3774348.586 362.00
   LOCATION L0001989     VOLUME   480615.935 3774348.555 362.00
   LOCATION L0001990     VOLUME   480624.735 3774348.523 362.00
   LOCATION L0001991     VOLUME   480633.535 3774348.492 362.00
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Equipment
** PREFIX
** Length of Side = 8.80
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 480496.127, 3774341.417, 360.09, 3.11, 4.09
** 480636.789, 3774341.417, 362.00, 3.11, 4.09
** ----------------------------------------------------------------
   LOCATION L0001992     VOLUME   480500.527 3774341.417 360.35
   LOCATION L0001993     VOLUME   480509.327 3774341.417 360.65
   LOCATION L0001994     VOLUME   480518.127 3774341.417 360.94
   LOCATION L0001995     VOLUME   480526.927 3774341.417 361.00
   LOCATION L0001996     VOLUME   480535.727 3774341.417 361.00
   LOCATION L0001997     VOLUME   480544.527 3774341.417 361.00
   LOCATION L0001998     VOLUME   480553.327 3774341.417 361.11
   LOCATION L0001999     VOLUME   480562.127 3774341.417 361.41
   LOCATION L0002000     VOLUME   480570.927 3774341.417 361.70
   LOCATION L0002001     VOLUME   480579.727 3774341.417 361.99
   LOCATION L0002002     VOLUME   480588.527 3774341.417 362.00
   LOCATION L0002003     VOLUME   480597.327 3774341.417 362.00
   LOCATION L0002004     VOLUME   480606.127 3774341.417 362.00
   LOCATION L0002005     VOLUME   480614.927 3774341.417 362.00
   LOCATION L0002006     VOLUME   480623.727 3774341.417 362.00
   LOCATION L0002007     VOLUME   480632.527 3774341.417 362.00
** End of LINE VOLUME Source ID = SLINE9
   LOCATION STCK1        POINT      480472.940  3774351.500      360.000
** DESCRSRC Emergency Generator
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Meines
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
```

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** Emission Rate = 0.111932065
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 480416.278, 3774230.271, 359.95, 0.00, 4.65
** 480721.386, 3774213.558, 363.00, 0.00, 4.65
** 480725.922, 3774213.309, 363.00, 0.00, 4.65
** 480728.828, 3774213.150, 363.00, 0.00, 4.65
** ------------------------------------------------------------------
   LOCATION L0003008     VOLUME   480421.271 3774229.997 360.00
   LOCATION L0003009     VOLUME   480431.256 3774229.451 360.00
   LOCATION L0003010     VOLUME   480441.241 3774228.904 360.00
   LOCATION L0003011     VOLUME   480451.226 3774228.357 360.00
   LOCATION L0003012     VOLUME   480461.211 3774227.810 360.04
   LOCATION L0003013     VOLUME   480471.196 3774227.263 360.38
   LOCATION L0003014     VOLUME   480481.181 3774226.716 360.71
   LOCATION L0003015     VOLUME   480491.166 3774226.169 361.00
   LOCATION L0003016     VOLUME   480501.151 3774225.622 360.99
   LOCATION L0003017     VOLUME   480511.136 3774225.075 360.99
   LOCATION L0003018     VOLUME   480521.121 3774224.528 361.00
   LOCATION L0003019     VOLUME   480531.106 3774223.981 361.00
   LOCATION L0003020     VOLUME   480541.091 3774223.434 361.00
   LOCATION L0003021     VOLUME   480551.076 3774222.887 361.04
   LOCATION L0003022     VOLUME   480561.061 3774222.340 361.37
   LOCATION L0003023     VOLUME   480571.046 3774221.793 361.71
   LOCATION L0003024     VOLUME   480581.031 3774221.246 362.00
   LOCATION L0003025     VOLUME   480591.016 3774220.699 362.00
   LOCATION L0003026     VOLUME   480601.001 3774220.152 362.00
   LOCATION L0003027     VOLUME   480610.986 3774219.605 362.00
   LOCATION L0003028     VOLUME   480620.972 3774219.058 362.00
   LOCATION L0003029     VOLUME   480630.957 3774218.511 362.00
   LOCATION L0003030     VOLUME   480640.942 3774217.964 362.00
   LOCATION L0003031     VOLUME   480650.927 3774217.417 362.00
   LOCATION L0003032     VOLUME   480660.912 3774216.870 362.00
   LOCATION L0003033     VOLUME   480670.897 3774216.323 362.03
   LOCATION L0003034     VOLUME   480680.882 3774215.776 362.37
   LOCATION L0003035     VOLUME   480690.867 3774215.229 362.70
   LOCATION L0003036     VOLUME   480700.852 3774214.682 363.00
   LOCATION L0003037     VOLUME   480710.837 3774214.135 363.00
   LOCATION L0003038     VOLUME   480720.822 3774213.589 363.00
** End of LINE VOLUME Source ID = SLINE7
** Source Parameters **
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002111     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002112     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002113     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002114     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002115     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002116     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002117     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002118     0.0204081633      0.00      4.09      2.89
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   SRCPARAM L0002119     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002120     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002121     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002122     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002123     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002124     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002125     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002126     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002127     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002128     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002129     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002130     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002131     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002132     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002133     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002134     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002135     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002136     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002137     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002138     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002139     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002140     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002141     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002142     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002143     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002144     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002145     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002146     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002147     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002148     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002149     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002150     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002151     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002152     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002153     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002154     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002155     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002156     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002157     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002158     0.0204081633      0.00      4.09      2.89
   SRCPARAM L0002159     0.0204081633      0.00      4.09      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002957     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002958     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002959     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002960     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002961     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002962     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002963     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002964     0.0177817165      3.11     10.23      2.89
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   SRCPARAM L0002965     0.0177817165      3.11     10.23      2.89
   SRCPARAM L0002966     0.0177817165      3.11     10.23      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0002967     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002968     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002969     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002970     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002971     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002972     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002973     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002974     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002975     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002976     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002977     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002978     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002979     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002980     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002981     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002982     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002983     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002984     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002985     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002986     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002987     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002988     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002989     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002990     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002991     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002992     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002993     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002994     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002995     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002996     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002997     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002998     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0002999     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003000     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003001     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003002     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003003     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003004     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003005     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003006     0.0173231895      3.11     10.23      2.89
   SRCPARAM L0003007     0.0173231895      3.11     10.23      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0001976        0.0625      3.11      4.09      2.89
   SRCPARAM L0001977        0.0625      3.11      4.09      2.89
   SRCPARAM L0001978        0.0625      3.11      4.09      2.89
   SRCPARAM L0001979        0.0625      3.11      4.09      2.89
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   SRCPARAM L0001980        0.0625      3.11      4.09      2.89
   SRCPARAM L0001981        0.0625      3.11      4.09      2.89
   SRCPARAM L0001982        0.0625      3.11      4.09      2.89
   SRCPARAM L0001983        0.0625      3.11      4.09      2.89
   SRCPARAM L0001984        0.0625      3.11      4.09      2.89
   SRCPARAM L0001985        0.0625      3.11      4.09      2.89
   SRCPARAM L0001986        0.0625      3.11      4.09      2.89
   SRCPARAM L0001987        0.0625      3.11      4.09      2.89
   SRCPARAM L0001988        0.0625      3.11      4.09      2.89
   SRCPARAM L0001989        0.0625      3.11      4.09      2.89
   SRCPARAM L0001990        0.0625      3.11      4.09      2.89
   SRCPARAM L0001991        0.0625      3.11      4.09      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0001992        0.0625      3.11      4.09      2.89
   SRCPARAM L0001993        0.0625      3.11      4.09      2.89
   SRCPARAM L0001994        0.0625      3.11      4.09      2.89
   SRCPARAM L0001995        0.0625      3.11      4.09      2.89
   SRCPARAM L0001996        0.0625      3.11      4.09      2.89
   SRCPARAM L0001997        0.0625      3.11      4.09      2.89
   SRCPARAM L0001998        0.0625      3.11      4.09      2.89
   SRCPARAM L0001999        0.0625      3.11      4.09      2.89
   SRCPARAM L0002000        0.0625      3.11      4.09      2.89
   SRCPARAM L0002001        0.0625      3.11      4.09      2.89
   SRCPARAM L0002002        0.0625      3.11      4.09      2.89
   SRCPARAM L0002003        0.0625      3.11      4.09      2.89
   SRCPARAM L0002004        0.0625      3.11      4.09      2.89
   SRCPARAM L0002005        0.0625      3.11      4.09      2.89
   SRCPARAM L0002006        0.0625      3.11      4.09      2.89
   SRCPARAM L0002007        0.0625      3.11      4.09      2.89
** ------------------------------------------------------------------
   SRCPARAM STCK1              1.0     5.000   763.850 223.611190744084      0.23
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0003008     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003009     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003010     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003011     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003012     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003013     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003014     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003015     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003016     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003017     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003018     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003019     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003020     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003021     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003022     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003023     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003024     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003025     0.0036107118      0.00      4.65      2.89
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   SRCPARAM L0003026     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003027     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003028     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003029     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003030     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003031     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003032     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003033     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003034     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003035     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003036     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003037     0.0036107118      0.00      4.65      2.89
   SRCPARAM L0003038     0.0036107118      0.00      4.65      2.89
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24
   BUILDHGT STCK1          15.24    15.24    15.24    15.24    15.24    15.24

   BUILDWID STCK1         262.81   269.97   268.93   259.72   242.62   218.14
   BUILDWID STCK1         187.04   150.25   108.90   149.77   186.45   217.46
   BUILDWID STCK1         241.87   258.93   268.12   269.16   262.03   248.02
   BUILDWID STCK1         262.81   269.97   268.93   259.72   242.61   218.14
   BUILDWID STCK1         187.04   150.25   108.90   149.77   186.45   217.46
   BUILDWID STCK1         241.87   258.93   268.12   269.16   262.03   248.02

   BUILDLEN STCK1         149.77   186.45   217.46   241.87   258.93   268.12
   BUILDLEN STCK1         269.16   262.03   248.02   262.81   269.97   268.93
   BUILDLEN STCK1         259.72   242.61   218.14   187.04   150.25   108.90
   BUILDLEN STCK1         149.77   186.45   217.46   241.87   258.93   268.12
   BUILDLEN STCK1         269.16   262.03   248.02   262.81   269.97   268.93
   BUILDLEN STCK1         259.72   242.61   218.14   187.04   150.25   108.90

   XBADJ    STCK1        -115.41  -115.25  -111.59  -104.53   -94.30   -81.20
   XBADJ    STCK1         -65.64   -48.08   -30.15   -29.14   -27.25   -24.53
   XBADJ    STCK1         -21.06   -16.95   -12.33    -7.33    -2.11     3.17
   XBADJ    STCK1         -34.36   -71.20  -105.88  -137.34  -164.63  -186.92
   XBADJ    STCK1        -203.52  -213.95  -217.87  -233.67  -242.72  -244.40
   XBADJ    STCK1        -238.66  -225.66  -205.81  -179.70  -148.14  -112.07

   YBADJ    STCK1        -102.26  -107.74  -109.94  -108.80  -104.36   -96.74
   YBADJ    STCK1         -86.19   -73.01   -57.62   -40.53   -22.03    -2.85
   YBADJ    STCK1          16.41    35.17    52.86    68.94    82.93    93.86
   YBADJ    STCK1         102.26   107.74   109.94   108.80   104.36    96.74
   YBADJ    STCK1          86.19    73.01    57.62    40.53    22.03     2.85
   YBADJ    STCK1         -16.41   -35.17   -52.86   -68.94   -82.93   -93.86
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   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ONSITERU L0002111 L0002112 L0002113 L0002114 L0002115 L0002116
   SRCGROUP ONSITERU L0002117 L0002118 L0002119 L0002120 L0002121 L0002122
   SRCGROUP ONSITERU L0002123 L0002124 L0002125 L0002126 L0002127 L0002128
   SRCGROUP ONSITERU L0002129 L0002130 L0002131 L0002132 L0002133 L0002134
   SRCGROUP ONSITERU L0002135 L0002136 L0002137 L0002138 L0002139 L0002140
   SRCGROUP ONSITERU L0002141 L0002142 L0002143 L0002144 L0002145 L0002146
   SRCGROUP ONSITERU L0002147 L0002148 L0002149 L0002150 L0002151 L0002152
   SRCGROUP ONSITERU L0002153 L0002154 L0002155 L0002156 L0002157 L0002158
   SRCGROUP ONSITERU L0002159
   SRCGROUP OFFSITE  L0002957 L0002958 L0002959 L0002960 L0002961 L0002962
   SRCGROUP OFFSITE  L0002963 L0002964 L0002965 L0002966 L0002967 L0002968
   SRCGROUP OFFSITE  L0002969 L0002970 L0002971 L0002972 L0002973 L0002974
   SRCGROUP OFFSITE  L0002975 L0002976 L0002977 L0002978 L0002979 L0002980
   SRCGROUP OFFSITE  L0002981 L0002982 L0002983 L0002984 L0002985 L0002986
   SRCGROUP OFFSITE  L0002987 L0002988 L0002989 L0002990 L0002991 L0002992
   SRCGROUP OFFSITE  L0002993 L0002994 L0002995 L0002996 L0002997 L0002998
   SRCGROUP OFFSITE  L0002999 L0003000 L0003001 L0003002 L0003003 L0003004
   SRCGROUP OFFSITE  L0003005 L0003006 L0003007 L0003008 L0003009 L0003010
   SRCGROUP OFFSITE  L0003011 L0003012 L0003013 L0003014 L0003015 L0003016
   SRCGROUP OFFSITE  L0003017 L0003018 L0003019 L0003020 L0003021 L0003022
   SRCGROUP OFFSITE  L0003023 L0003024 L0003025 L0003026 L0003027 L0003028
   SRCGROUP OFFSITE  L0003029 L0003030 L0003031 L0003032 L0003033 L0003034
   SRCGROUP OFFSITE  L0003035 L0003036 L0003037 L0003038
   SRCGROUP IDLE     L0001976 L0001977 L0001978 L0001979 L0001980 L0001981
   SRCGROUP IDLE     L0001982 L0001983 L0001984 L0001985 L0001986 L0001987
   SRCGROUP IDLE     L0001988 L0001989 L0001990 L0001991
```

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   SRCGROUP EQUIP    L0001992 L0001993 L0001994 L0001995 L0001996 L0001997
   SRCGROUP EQUIP    L0001998 L0001999 L0002000 L0002001 L0002002 L0002003
   SRCGROUP EQUIP    L0002004 L0002005 L0002006 L0002007
   SRCGROUP GEN      STCK1
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Highland_Meines&Palm_Op.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE RDLD_v9.SFC
   PROFFILE RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 481.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1GALL.PLT 31
   PLOTFILE 1 ONSITERU 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G001.PLT 32
   PLOTFILE 1 OFFSITE 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G002.PLT 33
   PLOTFILE 1 IDLE 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G003.PLT 34
   PLOTFILE 1 EQUIP 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G004.PLT 35
   PLOTFILE 1 GEN 1ST HIGHLAND_MEINES&PALM_OP.AD\01H1G005.PLT 36
   PLOTFILE PERIOD ALL HIGHLAND_MEINES&PALM_OP.AD\PE00GALL.PLT 37
   PLOTFILE PERIOD ONSITERU HIGHLAND_MEINES&PALM_OP.AD\PE00G001.PLT 38
   PLOTFILE PERIOD OFFSITE HIGHLAND_MEINES&PALM_OP.AD\PE00G002.PLT 39
   PLOTFILE PERIOD IDLE HIGHLAND_MEINES&PALM_OP.AD\PE00G003.PLT 40
   PLOTFILE PERIOD EQUIP HIGHLAND_MEINES&PALM_OP.AD\PE00G004.PLT 41
   PLOTFILE PERIOD GEN HIGHLAND_MEINES&PALM_OP.AD\PE00G005.PLT 42
```

```
   SUMMFILE Highland_Meines&Palm_Op.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320     439        PPARM: Input Parameter May Be Out-of-Range for Parameter
       VS
 ME W186     589       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     589       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                              ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                              ***       17:46:25

                                       PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                 ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   164 Source(s),
```

```
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
    and Calculates PERIOD Averages

 **This Run Includes:    164 Source(s);       6 Source Group(s); and     775
Receptor(s)

               with:      1 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    163 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
```

Missing Hours

 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   481.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                  Emission Units = GRAMS/SEC   ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =   4.3 MB of RAM.

 **Input Runstream File: aermod.inp

 **Output Print File: aermod.out

 **Detailed Error/Message File: Highland_Meines&Palm_Op.err

 **File for Summary of Results: Highland_Meines&Palm_Op.sum

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** POINT SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   STACK   STACK   STACK   STACK   BLDG   URBAN CAP/ EMIS RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT TEMP.   EXIT VEL. DIAMETER EXISTS SOURCE HOR   SCALAR
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (DEG.K) (M/SEC) (METERS)   VARY BY
 -

 STCK1   0   0.10000E+01 480472.9 3774351.5   360.0   5.00   763.85 223.61   0.23   YES   YES   NO HRDOW7

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0002111	0	0.20408E-01	480416.6	3774238.7	360.0	0.00	4.09	2.89	YES
L0002112	0	0.20408E-01	480416.5	3774247.5	360.0	0.00	4.09	2.89	YES
L0002113	0	0.20408E-01	480416.3	3774256.3	360.0	0.00	4.09	2.89	YES
L0002114	0	0.20408E-01	480416.1	3774265.1	360.0	0.00	4.09	2.89	YES
L0002115	0	0.20408E-01	480416.0	3774273.9	360.0	0.00	4.09	2.89	YES
L0002116	0	0.20408E-01	480415.8	3774282.6	360.0	0.00	4.09	2.89	YES
L0002117	0	0.20408E-01	480415.7	3774291.4	360.0	0.00	4.09	2.89	YES
L0002118	0	0.20408E-01	480415.5	3774300.2	360.0	0.00	4.09	2.89	YES
L0002119	0	0.20408E-01	480415.3	3774309.0	360.0	0.00	4.09	2.89	YES
L0002120	0	0.20408E-01	480415.2	3774317.8	360.0	0.00	4.09	2.89	YES
L0002121	0	0.20408E-01	480415.0	3774326.6	359.8	0.00	4.09	2.89	YES
L0002122	0	0.20408E-01	480414.8	3774335.4	359.7	0.00	4.09	2.89	YES
L0002123	0	0.20408E-01	480414.7	3774344.2	359.5	0.00	4.09	2.89	YES
L0002124	0	0.20408E-01	480416.7	3774351.6	359.6	0.00	4.09	2.89	YES
L0002125	0	0.20408E-01	480424.9	3774354.6	359.8	0.00	4.09	2.89	YES
L0002126	0	0.20408E-01	480433.2	3774357.6	360.0	0.00	4.09	2.89	YES
L0002127	0	0.20408E-01	480441.5	3774360.6	360.0	0.00	4.09	2.89	YES
L0002128	0	0.20408E-01	480449.7	3774363.6	360.0	0.00	4.09	2.89	YES
L0002129	0	0.20408E-01	480458.4	3774364.5	360.0	0.00	4.09	2.89	YES
L0002130	0	0.20408E-01	480467.2	3774364.5	360.0	0.00	4.09	2.89	YES
L0002131	0	0.20408E-01	480476.0	3774364.5	360.0	0.00	4.09		

2.89 YES
L0002132 0 0.20408E-01 480484.8 3774364.5 360.0 0.00 4.09
2.89 YES
L0002133 0 0.20408E-01 480493.6 3774364.5 360.1 0.00 4.09
2.89 YES
L0002134 0 0.20408E-01 480502.4 3774364.4 360.4 0.00 4.09
2.89 YES
L0002135 0 0.20408E-01 480511.2 3774364.4 360.7 0.00 4.09
2.89 YES
L0002136 0 0.20408E-01 480520.0 3774364.4 361.0 0.00 4.09
2.89 YES
L0002137 0 0.20408E-01 480528.8 3774364.4 361.0 0.00 4.09
2.89 YES
L0002138 0 0.20408E-01 480537.6 3774364.4 361.0 0.00 4.09
2.89 YES
L0002139 0 0.20408E-01 480546.4 3774364.4 361.0 0.00 4.09
2.89 YES
L0002140 0 0.20408E-01 480555.2 3774364.4 361.2 0.00 4.09
2.89 YES
L0002141 0 0.20408E-01 480564.0 3774364.3 361.5 0.00 4.09
2.89 YES
L0002142 0 0.20408E-01 480572.8 3774364.3 361.8 0.00 4.09
2.89 YES
L0002143 0 0.20408E-01 480581.6 3774364.3 362.0 0.00 4.09
2.89 YES
L0002144 0 0.20408E-01 480590.4 3774364.3 362.0 0.00 4.09
2.89 YES
L0002145 0 0.20408E-01 480599.2 3774364.3 362.0 0.00 4.09
2.89 YES
L0002146 0 0.20408E-01 480608.0 3774364.3 362.0 0.00 4.09
2.89 YES
L0002147 0 0.20408E-01 480616.8 3774364.3 362.0 0.00 4.09
2.89 YES
L0002148 0 0.20408E-01 480625.6 3774364.2 362.0 0.00 4.09
2.89 YES
L0002149 0 0.20408E-01 480634.4 3774364.2 362.0 0.00 4.09
2.89 YES
L0002150 0 0.20408E-01 480643.2 3774364.2 362.0 0.00 4.09
2.89 YES

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT.

INIT. SOURCE ID	URBAN SOURCE	EMISSION RATE PART. SCALAR CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE VARY BY
L0002151		0	0.20408E-01	480652.0	3774364.2	362.0	0.00	4.09	2.89	YES
L0002152		0	0.20408E-01	480660.8	3774364.2	362.0	0.00	4.09	2.89	YES
L0002153		0	0.20408E-01	480669.6	3774364.2	362.0	0.00	4.09	2.89	YES
L0002154		0	0.20408E-01	480678.4	3774364.2	362.3	0.00	4.09	2.89	YES
L0002155		0	0.20408E-01	480687.2	3774364.2	362.6	0.00	4.09	2.89	YES
L0002156		0	0.20408E-01	480696.0	3774364.1	362.9	0.00	4.09	2.89	YES
L0002157		0	0.20408E-01	480704.8	3774364.1	363.0	0.00	4.09	2.89	YES
L0002158		0	0.20408E-01	480713.6	3774364.1	363.0	0.00	4.09	2.89	YES
L0002159		0	0.20408E-01	480722.4	3774364.1	363.0	0.00	4.09	2.89	YES
L0002957		0	0.17782E-01	480743.1	3774353.5	363.0	3.11	10.23	2.89	YES
L0002958		0	0.17782E-01	480742.8	3774331.5	363.0	3.11	10.23	2.89	YES
L0002959		0	0.17782E-01	480742.6	3774309.5	363.0	3.11	10.23	2.89	YES
L0002960		0	0.17782E-01	480742.3	3774287.5	363.0	3.11	10.23	2.89	YES
L0002961		0	0.17782E-01	480742.1	3774265.5	363.0	3.11	10.23	2.89	YES
L0002962		0	0.17782E-01	480741.8	3774243.5	363.0	3.11	10.23	2.89	YES
L0002963		0	0.17782E-01	480741.6	3774221.5	363.0	3.11	10.23	2.89	YES
L0002964		0	0.17782E-01	480741.3	3774199.5	363.0	3.11	10.23	2.89	YES
L0002965		0	0.17782E-01	480741.1	3774177.5	363.0	3.11	10.23	2.89	YES
L0002966		0	0.17782E-01	480740.8	3774155.5	363.1	3.11	10.23	2.89	YES
L0002967		0	0.17323E-01	480750.8	3774134.1	363.7	3.11	10.23	2.89	YES
L0002968		0	0.17323E-01	480772.7	3774132.5	364.0	3.11	10.23	2.89	YES
L0002969		0	0.17323E-01	480794.6	3774130.8	364.0	3.11	10.23		

2.89 YES
L0002970 0 0.17323E-01 480816.6 3774129.2 364.0 3.11 10.23
2.89 YES
L0002971 0 0.17323E-01 480838.5 3774127.6 364.2 3.11 10.23
2.89 YES
L0002972 0 0.17323E-01 480860.5 3774125.9 364.6 3.11 10.23
2.89 YES
L0002973 0 0.17323E-01 480882.4 3774124.3 365.0 3.11 10.23
2.89 YES
L0002974 0 0.17323E-01 480904.3 3774122.7 365.0 3.11 10.23
2.89 YES
L0002975 0 0.17323E-01 480926.3 3774121.0 365.0 3.11 10.23
2.89 YES
L0002976 0 0.17323E-01 480948.2 3774119.4 365.3 3.11 10.23
2.89 YES
L0002977 0 0.17323E-01 480970.2 3774117.8 366.0 3.11 10.23
2.89 YES
L0002978 0 0.17323E-01 480992.1 3774116.1 366.0 3.11 10.23
2.89 YES
L0002979 0 0.17323E-01 481014.0 3774114.5 366.0 3.11 10.23
2.89 YES
L0002980 0 0.17323E-01 481036.0 3774112.9 366.2 3.11 10.23
2.89 YES
L0002981 0 0.17323E-01 481057.9 3774111.2 366.9 3.11 10.23
2.89 YES
L0002982 0 0.17323E-01 481079.9 3774109.6 367.0 3.11 10.23
2.89 YES
L0002983 0 0.17323E-01 481101.8 3774107.9 367.0 3.11 10.23
2.89 YES
L0002984 0 0.17323E-01 481123.7 3774106.3 367.1 3.11 10.23
2.89 YES
L0002985 0 0.17323E-01 481145.7 3774105.3 367.9 3.11 10.23
2.89 YES
L0002986 0 0.17323E-01 481167.6 3774106.7 368.0 3.11 10.23
2.89 YES
L0002987 0 0.17323E-01 481189.6 3774108.2 368.0 3.11 10.23
2.89 YES

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT.	URBAN	EMISSION RATE

SZ	SOURCE ID	SCALAR CATS.	VARY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
	L0002988	0	0.17323E-01	481211.5	3774109.7	368.1	3.11	10.23	2.89	YES
	L0002989	0	0.17323E-01	481233.5	3774111.2	368.8	3.11	10.23	2.89	YES
	L0002990	0	0.17323E-01	481255.4	3774112.6	369.0	3.11	10.23	2.89	YES
	L0002991	0	0.17323E-01	481277.4	3774114.1	369.0	3.11	10.23	2.89	YES
	L0002992	0	0.17323E-01	481299.3	3774115.6	369.0	3.11	10.23	2.89	YES
	L0002993	0	0.17323E-01	481321.3	3774117.1	369.7	3.11	10.23	2.89	YES
	L0002994	0	0.17323E-01	481343.2	3774118.5	370.0	3.11	10.23	2.89	YES
	L0002995	0	0.17323E-01	481365.2	3774120.0	370.0	3.11	10.23	2.89	YES
	L0002996	0	0.17323E-01	481387.1	3774121.5	370.0	3.11	10.23	2.89	YES
	L0002997	0	0.17323E-01	481409.1	3774123.0	370.6	3.11	10.23	2.89	YES
	L0002998	0	0.17323E-01	481431.0	3774124.4	371.0	3.11	10.23	2.89	YES
	L0002999	0	0.17323E-01	481453.0	3774125.9	371.0	3.11	10.23	2.89	YES
	L0003000	0	0.17323E-01	481474.9	3774127.4	371.2	3.11	10.23	2.89	YES
	L0003001	0	0.17323E-01	481496.9	3774128.9	371.7	3.11	10.23	2.89	YES
	L0003002	0	0.17323E-01	481518.8	3774130.3	372.0	3.11	10.23	2.89	YES
	L0003003	0	0.17323E-01	481540.8	3774131.8	372.0	3.11	10.23	2.89	YES
	L0003004	0	0.17323E-01	481562.7	3774133.3	372.1	3.11	10.23	2.89	YES
	L0003005	0	0.17323E-01	481584.7	3774134.8	372.5	3.11	10.23	2.89	YES
	L0003006	0	0.17323E-01	481606.6	3774136.2	373.2	3.11	10.23	2.89	YES
	L0003007	0	0.17323E-01	481628.6	3774137.7	373.9	3.11	10.23	2.89	YES
	L0001976	0	0.62500E-01	480501.5	3774349.0	360.4	3.11	4.09	2.89	YES
	L0001977	0	0.62500E-01	480510.3	3774348.9	360.7	3.11	4.09	2.89	YES
	L0001978	0	0.62500E-01	480519.1	3774348.9	361.0	3.11	4.09		

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2.89     YES
 L0001979         0   0.62500E-01  480527.9 3774348.9   361.0     3.11     4.09
2.89     YES
 L0001980         0   0.62500E-01  480536.7 3774348.8   361.0     3.11     4.09
2.89     YES
 L0001981         0   0.62500E-01  480545.5 3774348.8   361.0     3.11     4.09
2.89     YES
 L0001982         0   0.62500E-01  480554.3 3774348.8   361.2     3.11     4.09
2.89     YES
 L0001983         0   0.62500E-01  480563.1 3774348.7   361.4     3.11     4.09
2.89     YES
 L0001984         0   0.62500E-01  480571.9 3774348.7   361.7     3.11     4.09
2.89     YES
 L0001985         0   0.62500E-01  480580.7 3774348.7   362.0     3.11     4.09
2.89     YES
 L0001986         0   0.62500E-01  480589.5 3774348.6   362.0     3.11     4.09
2.89     YES
 L0001987         0   0.62500E-01  480598.3 3774348.6   362.0     3.11     4.09
2.89     YES
 L0001988         0   0.62500E-01  480607.1 3774348.6   362.0     3.11     4.09
2.89     YES
 L0001989         0   0.62500E-01  480615.9 3774348.6   362.0     3.11     4.09
2.89     YES
 L0001990         0   0.62500E-01  480624.7 3774348.5   362.0     3.11     4.09
2.89     YES
 L0001991         0   0.62500E-01  480633.5 3774348.5   362.0     3.11     4.09
2.89     YES
 L0001992         0   0.62500E-01  480500.5 3774341.4   360.4     3.11     4.09
2.89     YES
 L0001993         0   0.62500E-01  480509.3 3774341.4   360.7     3.11     4.09
2.89     YES
 L0001994         0   0.62500E-01  480518.1 3774341.4   360.9     3.11     4.09
2.89     YES
 L0001995         0   0.62500E-01  480526.9 3774341.4   361.0     3.11     4.09
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
```

(METERS) BY

- - - -

```
2.89     YES
 L0003020         0   0.36107E-02  480541.1 3774223.4   361.0     0.00     4.65
2.89     YES
 L0003021         0   0.36107E-02  480551.1 3774222.9   361.0     0.00     4.65
2.89     YES
 L0003022         0   0.36107E-02  480561.1 3774222.3   361.4     0.00     4.65
2.89     YES
 L0003023         0   0.36107E-02  480571.0 3774221.8   361.7     0.00     4.65
2.89     YES
 L0003024         0   0.36107E-02  480581.0 3774221.2   362.0     0.00     4.65
2.89     YES
 L0003025         0   0.36107E-02  480591.0 3774220.7   362.0     0.00     4.65
2.89     YES
 L0003026         0   0.36107E-02  480601.0 3774220.2   362.0     0.00     4.65
2.89     YES
 L0003027         0   0.36107E-02  480611.0 3774219.6   362.0     0.00     4.65
2.89     YES
 L0003028         0   0.36107E-02  480621.0 3774219.1   362.0     0.00     4.65
2.89     YES
 L0003029         0   0.36107E-02  480631.0 3774218.5   362.0     0.00     4.65
2.89     YES
 L0003030         0   0.36107E-02  480640.9 3774218.0   362.0     0.00     4.65
2.89     YES
 L0003031         0   0.36107E-02  480650.9 3774217.4   362.0     0.00     4.65
2.89     YES
 L0003032         0   0.36107E-02  480660.9 3774216.9   362.0     0.00     4.65
2.89     YES
 L0003033         0   0.36107E-02  480670.9 3774216.3   362.0     0.00     4.65
2.89     YES
 L0003034         0   0.36107E-02  480680.9 3774215.8   362.4     0.00     4.65
2.89     YES
 L0003035         0   0.36107E-02  480690.9 3774215.2   362.7     0.00     4.65
2.89     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003020	0	0.36107E-02	480541.1	3774223.4	361.0	0.00	4.65	2.89	YES	
L0003021	0	0.36107E-02	480551.1	3774222.9	361.0	0.00	4.65	2.89	YES	
L0003022	0	0.36107E-02	480561.1	3774222.3	361.4	0.00	4.65	2.89	YES	
L0003023	0	0.36107E-02	480571.0	3774221.8	361.7	0.00	4.65	2.89	YES	
L0003024	0	0.36107E-02	480581.0	3774221.2	362.0	0.00	4.65	2.89	YES	
L0003025	0	0.36107E-02	480591.0	3774220.7	362.0	0.00	4.65	2.89	YES	
L0003026	0	0.36107E-02	480601.0	3774220.2	362.0	0.00	4.65	2.89	YES	
L0003027	0	0.36107E-02	480611.0	3774219.6	362.0	0.00	4.65	2.89	YES	
L0003028	0	0.36107E-02	480621.0	3774219.1	362.0	0.00	4.65	2.89	YES	
L0003029	0	0.36107E-02	480631.0	3774218.5	362.0	0.00	4.65	2.89	YES	
L0003030	0	0.36107E-02	480640.9	3774218.0	362.0	0.00	4.65	2.89	YES	
L0003031	0	0.36107E-02	480650.9	3774217.4	362.0	0.00	4.65	2.89	YES	
L0003032	0	0.36107E-02	480660.9	3774216.9	362.0	0.00	4.65	2.89	YES	
L0003033	0	0.36107E-02	480670.9	3774216.3	362.0	0.00	4.65	2.89	YES	
L0003034	0	0.36107E-02	480680.9	3774215.8	362.4	0.00	4.65	2.89	YES	
L0003035	0	0.36107E-02	480690.9	3774215.2	362.7	0.00	4.65	2.89	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ONSITERU	L0002111 , L0002112 , L0002113 , L0002114 , L0002115 , L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 , L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 , L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , L0002139 , L0002140 , L0002141 , L0002142 , L0002143 , L0002144 , L0002145 , L0002146 , L0002147 , L0002148 , L0002149 , L0002150 , L0002151 , L0002152 , L0002153 , L0002154 , L0002155 , L0002156 , L0002157 , L0002158 , L0002159 ,
OFFSITE	L0002957 , L0002958 , L0002959 , L0002960 , L0002961 , L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 , L0002968 , L0002969 , L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 , L0002976 , L0002977 , L0002978 , L0002979 , L0002980 ,

```
             L0002981    , L0002982    , L0002983    , L0002984    , L0002985    ,
L0002986    , L0002987    , L0002988    ,

             L0002989    , L0002990    , L0002991    , L0002992    , L0002993    ,
L0002994    , L0002995    , L0002996    ,

             L0002997    , L0002998    , L0002999    , L0003000    , L0003001    ,
L0003002    , L0003003    , L0003004    ,

             L0003005    , L0003006    , L0003007    , L0003008    , L0003009    ,
L0003010    , L0003011    , L0003012    ,

             L0003013    , L0003014    , L0003015    , L0003016    , L0003017    ,
L0003018    , L0003019    , L0003020    ,

             L0003021    , L0003022    , L0003023    , L0003024    , L0003025    ,
L0003026    , L0003027    , L0003028    ,

             L0003029    , L0003030    , L0003031    , L0003032    , L0003033    ,
L0003034    , L0003035    , L0003036    ,

             L0003037    , L0003038    ,

  IDLE       L0001976    , L0001977    , L0001978    , L0001979    , L0001980    ,
L0001981    , L0001982    , L0001983    ,

             L0001984    , L0001985    , L0001986    , L0001987    , L0001988    ,
L0001989    , L0001990    , L0001991    ,
↟ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***         04/13/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                    SOURCE IDs
 -----------                                                    ----------


  EQUIP      L0001992    , L0001993    , L0001994    , L0001995    , L0001996    ,
L0001997    , L0001998    , L0001999    ,

             L0002000    , L0002001    , L0002002    , L0002003    , L0002004    ,
L0002005    , L0002006    , L0002007    ,

  GEN        STCK1       ,
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  ALL        L0002111    , L0002112    , L0002113    , L0002114    , L0002115    ,
L0002116    , L0002117    , L0002118    ,

             L0002119    , L0002120    , L0002121    , L0002122    , L0002123    ,
L0002124    , L0002125    , L0002126    ,

             L0002127    , L0002128    , L0002129    , L0002130    , L0002131    ,
L0002132    , L0002133    , L0002134    ,

             L0002135    , L0002136    , L0002137    , L0002138    , L0002139    ,
L0002140    , L0002141    , L0002142    ,

             L0002143    , L0002144    , L0002145    , L0002146    , L0002147    ,
L0002148    , L0002149    , L0002150    ,

             L0002151    , L0002152    , L0002153    , L0002154    , L0002155    ,
L0002156    , L0002157    , L0002158    ,

             L0002159    , L0002957    , L0002958    , L0002959    , L0002960    ,
L0002961    , L0002962    , L0002963    ,

             L0002964    , L0002965    , L0002966    , L0002967    , L0002968    ,
L0002969    , L0002970    , L0002971    ,

             L0002972    , L0002973    , L0002974    , L0002975    , L0002976    ,
L0002977    , L0002978    , L0002979    ,

             L0002980    , L0002981    , L0002982    , L0002983    , L0002984    ,
L0002985    , L0002986    , L0002987    ,

             L0002988    , L0002989    , L0002990    , L0002991    , L0002992    ,
L0002993    , L0002994    , L0002995    ,

             L0002996    , L0002997    , L0002998    , L0002999    , L0003000    ,
L0003001    , L0003002    , L0003003    ,

             L0003004    , L0003005    , L0003006    , L0003007    , L0001976    ,
L0001977    , L0001978    , L0001979    ,

             L0001980    , L0001981    , L0001982    , L0001983    , L0001984    ,
L0001985    , L0001986    , L0001987    ,

             L0001988    , L0001989    , L0001990    , L0001991    , L0001992    ,
L0001993    , L0001994    , L0001995    ,

             L0001996    , L0001997    , L0001998    , L0001999    , L0002000    ,
L0002001    , L0002002    , L0002003    ,

             L0002004    , L0002005    , L0002006    , L0002007    , STCK1       ,
L0003008    , L0003009    , L0003010    ,
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0003011 , L0003012 , L0003013 , L0003014 , L0003015 , L0003016 , L0003017 , L0003018 ,
	L0003019 , L0003020 , L0003021 , L0003022 , L0003023 , L0003024 , L0003025 , L0003026 ,
	L0003027 , L0003028 , L0003029 , L0003030 , L0003031 , L0003032 , L0003033 , L0003034 ,
	L0003035 , L0003036 , L0003037 , L0003038 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2035210.	L0002111 , L0002112 , L0002113 , L0002114 , L0002115 , L0002116 , L0002117 , L0002118 ,
		L0002119 , L0002120 , L0002121 , L0002122 , L0002123 , L0002124 , L0002125 , L0002126 ,
		L0002127 , L0002128 , L0002129 , L0002130 , L0002131 , L0002132 , L0002133 , L0002134 ,

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             L0002135    , L0002136    , L0002137    , L0002138    , L0002139    ,
L0002140    , L0002141    , L0002142    ,

             L0002143    , L0002144    , L0002145    , L0002146    , L0002147    ,
L0002148    , L0002149    , L0002150    ,

             L0002151    , L0002152    , L0002153    , L0002154    , L0002155    ,
L0002156    , L0002157    , L0002158    ,

             L0002159    , L0002957    , L0002958    , L0002959    , L0002960    ,
L0002961    , L0002962    , L0002963    ,

             L0002964    , L0002965    , L0002966    , L0002967    , L0002968    ,
L0002969    , L0002970    , L0002971    ,

             L0002972    , L0002973    , L0002974    , L0002975    , L0002976    ,
L0002977    , L0002978    , L0002979    ,

             L0002980    , L0002981    , L0002982    , L0002983    , L0002984    ,
L0002985    , L0002986    , L0002987    ,

             L0002988    , L0002989    , L0002990    , L0002991    , L0002992    ,
L0002993    , L0002994    , L0002995    ,

             L0002996    , L0002997    , L0002998    , L0002999    , L0003000    ,
L0003001    , L0003002    , L0003003    ,

             L0003004    , L0003005    , L0003006    , L0003007    , L0001976    ,
L0001977    , L0001978    , L0001979    ,

             L0001980    , L0001981    , L0001982    , L0001983    , L0001984    ,
L0001985    , L0001986    , L0001987    ,

             L0001988    , L0001989    , L0001990    , L0001991    , L0001992    ,
L0001993    , L0001994    , L0001995    ,

             L0001996    , L0001997    , L0001998    , L0001999    , L0002000    ,
L0002001    , L0002002    , L0002003    ,

             L0002004    , L0002005    , L0002006    , L0002007    , STCK1       ,
L0003008    , L0003009    , L0003010    ,

             L0003011    , L0003012    , L0003013    , L0003014    , L0003015    ,
L0003016    , L0003017    , L0003018    ,

             L0003019    , L0003020    , L0003021    , L0003022    , L0003023    ,
L0003024    , L0003025    , L0003026    ,

             L0003027    , L0003028    , L0003029    , L0003030    , L0003031    ,
L0003032    , L0003033    , L0003034    ,
```

                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

             L0003035   , L0003036   , L0003037   , L0003038   ,

                                          *** DIRECTION SPECIFIC BUILDING DIMENSIONS
***

 SOURCE ID: STCK1
  IFV   BH   BW   BL   XADJ   YADJ   IFV   BH   BW   BL   XADJ
  YADJ
    1   15.2, 262.8, 149.8, -115.4, -102.3,   2   15.2, 270.0, 186.5, -115.2,
-107.7,
    3   15.2, 268.9, 217.5, -111.6, -109.9,   4   15.2, 259.7, 241.9, -104.5,
-108.8,
    5   15.2, 242.6, 258.9, -94.3, -104.4,   6   15.2, 218.1, 268.1, -81.2,
 -96.7,
    7   15.2, 187.0, 269.2, -65.6, -86.2,   8   15.2, 150.2, 262.0, -48.1,
 -73.0,
    9   15.2, 108.9, 248.0, -30.2, -57.6,   10   15.2, 149.8, 262.8, -29.1,
 -40.5,
   11   15.2, 186.5, 270.0, -27.2, -22.0,   12   15.2, 217.5, 268.9, -24.5,
  -2.8,
   13   15.2, 241.9, 259.7, -21.1,   16.4,   14   15.2, 258.9, 242.6, -16.9,
  35.2,
   15   15.2, 268.1, 218.1, -12.3,   52.9,   16   15.2, 269.2, 187.0,   -7.3,
  68.9,
   17   15.2, 262.0, 150.2,   -2.1,   82.9,   18   15.2, 248.0, 108.9,   3.2,
  93.9,
   19   15.2, 262.8, 149.8, -34.4, 102.3,   20   15.2, 270.0, 186.5, -71.2,
 107.7,

```
   21   15.2,  268.9,  217.5, -105.9,  109.9,     22   15.2,  259.7,  241.9, -137.3,
 108.8,
   23   15.2,  242.6,  258.9, -164.6,  104.4,     24   15.2,  218.1,  268.1, -186.9,
  96.7,
   25   15.2,  187.0,  269.2, -203.5,   86.2,     26   15.2,  150.2,  262.0, -214.0,
  73.0,
   27   15.2,  108.9,  248.0, -217.9,   57.6,     28   15.2,  149.8,  262.8, -233.7,
  40.5,
   29   15.2,  186.5,  270.0, -242.7,   22.0,     30   15.2,  217.5,  268.9, -244.4,
   2.8,
   31   15.2,  241.9,  259.7, -238.7,  -16.4,     32   15.2,  258.9,  242.6, -225.7,
 -35.2,
   33   15.2,  268.1,  218.1, -205.8,  -52.9,     34   15.2,  269.2,  187.0, -179.7,
 -68.9,
   35   15.2,  262.0,  150.2, -148.1,  -82.9,     36   15.2,  248.0,  108.9, -112.1,
 -93.9,

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***       04/13/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = STCK1        ; SOURCE TYPE = POINT    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .1000E+01
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

```
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 480416.0, 3774200.2,     360.0,     360.0,       0.0);         ( 480386.3,
3774201.6,     359.6,     359.6,       0.0);
     ( 480364.5, 3774200.2,     359.0,     359.0,       0.0);         ( 480441.3,
3774196.2,     360.0,     360.0,       0.0);
     ( 480332.6, 3774203.3,     359.0,     359.0,       0.0);         ( 480282.0,
3774208.1,     358.1,     358.1,       0.0);
     ( 480259.4, 3774210.9,     358.0,     358.0,       0.0);         ( 480179.2,
3774215.2,     357.0,     357.0,       0.0);
```

```
     ( 479777.1, 3774155.7,     353.2,     353.2,       0.0);         ( 479903.9,
3774153.0,     354.0,     354.0,       0.0);
     ( 479888.7, 3774072.7,     354.0,     354.0,       0.0);         ( 480286.7,
3774147.8,     358.2,     358.2,       0.0);
     ( 480415.6, 3774088.1,     360.0,     360.0,       0.0);         ( 480408.0,
3774009.2,     359.8,     359.8,       0.0);
     ( 480445.4, 3774004.6,     360.0,     360.0,       0.0);         ( 480447.3,
3774028.7,     360.0,     360.0,       0.0);
     ( 480276.8, 3774266.8,     358.0,     358.0,       0.0);         ( 480151.3,
3774266.8,     357.0,     357.0,       0.0);
     ( 480135.3, 3774266.8,     357.0,     357.0,       0.0);         ( 479301.5,
3774414.0,     350.0,     350.0,       0.0);
     ( 479351.5, 3774414.0,     351.0,     351.0,       0.0);         ( 479401.5,
3774414.0,     351.0,     351.0,       0.0);
     ( 479451.5, 3774414.0,     351.4,     351.4,       0.0);         ( 479501.5,
3774414.0,     352.0,     352.0,       0.0);
     ( 479551.5, 3774414.0,     352.0,     352.0,       0.0);         ( 479601.5,
3774414.0,     353.0,     353.0,       0.0);
     ( 479651.5, 3774414.0,     353.1,     353.1,       0.0);         ( 479701.5,
3774414.0,     354.0,     354.0,       0.0);
     ( 479751.5, 3774414.0,     354.0,     354.0,       0.0);         ( 479801.5,
3774414.0,     354.1,     354.1,       0.0);
     ( 479851.5, 3774414.0,     355.0,     355.0,       0.0);         ( 479901.5,
3774414.0,     355.1,     355.1,       0.0);
     ( 479951.5, 3774414.0,     356.0,     356.0,       0.0);         ( 480001.5,
3774414.0,     356.0,     356.0,       0.0);
     ( 480051.5, 3774414.0,     356.5,     356.5,       0.0);         ( 480101.5,
3774414.0,     357.0,     357.0,       0.0);
     ( 480151.5, 3774414.0,     357.2,     357.2,       0.0);         ( 480201.5,
3774414.0,     358.0,     358.0,       0.0);
     ( 480251.5, 3774414.0,     358.0,     358.0,       0.0);         ( 480301.5,
3774414.0,     358.7,     358.7,       0.0);
     ( 480351.5, 3774414.0,     359.0,     359.0,       0.0);         ( 480401.5,
3774414.0,     359.3,     359.3,       0.0);
     ( 480451.5, 3774414.0,     360.0,     360.0,       0.0);         ( 480501.5,
3774414.0,     360.4,     360.4,       0.0);
     ( 480551.5, 3774414.0,     361.1,     361.1,       0.0);         ( 480601.5,
3774414.0,     362.0,     362.0,       0.0);
     ( 480651.5, 3774414.0,     362.0,     362.0,       0.0);         ( 480701.5,
3774414.0,     363.0,     363.0,       0.0);
     ( 480751.5, 3774414.0,     363.0,     363.0,       0.0);         ( 480801.5,
3774414.0,     364.0,     364.0,       0.0);
     ( 480851.5, 3774414.0,     364.0,     364.0,       0.0);         ( 480901.5,
3774414.0,     364.7,     364.7,       0.0);
     ( 480951.5, 3774414.0,     365.0,     365.0,       0.0);         ( 481001.5,
3774414.0,     365.0,     365.0,       0.0);
     ( 481051.5, 3774414.0,     365.7,     365.7,       0.0);         ( 481101.5,
3774414.0,     366.0,     366.0,       0.0);
     ( 481151.5, 3774414.0,     367.0,     367.0,       0.0);         ( 481201.5,
3774414.0,     367.7,     367.7,       0.0);
     ( 481251.5, 3774414.0,     368.4,     368.4,       0.0);         ( 481301.5,
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3774414.0, 369.0, 369.0, 0.0);
(481351.5, 3774414.0, 369.8, 369.8, 0.0); (481401.5,
3774414.0, 370.1, 370.1, 0.0);
(481451.5, 3774414.0, 371.0, 371.0, 0.0); (479301.5,
3774464.0, 350.0, 350.0, 0.0);
(479351.5, 3774464.0, 351.0, 351.0, 0.0); (479401.5,
3774464.0, 351.0, 351.0, 0.0);
(479451.5, 3774464.0, 351.9, 351.9, 0.0); (479501.5,
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(479551.5, 3774464.0, 352.7, 352.7, 0.0); (479601.5,
3774464.0, 353.0, 353.0, 0.0);
(479651.5, 3774464.0, 353.1, 353.1, 0.0); (479701.5,
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(479751.5, 3774464.0, 354.0, 354.0, 0.0); (479801.5,
3774464.0, 354.9, 354.9, 0.0);
(479851.5, 3774464.0, 355.0, 355.0, 0.0); (479901.5,
3774464.0, 355.4, 355.4, 0.0);
(479951.5, 3774464.0, 356.0, 356.0, 0.0); (480001.5,
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(480051.5, 3774464.0, 357.0, 357.0, 0.0); (480101.5,
3774464.0, 357.0, 357.0, 0.0);
(480151.5, 3774464.0, 357.7, 357.7, 0.0); (480201.5,
3774464.0, 358.0, 358.0, 0.0);
(480251.5, 3774464.0, 358.1, 358.1, 0.0); (480301.5,
3774464.0, 359.0, 359.0, 0.0);
(480351.5, 3774464.0, 359.0, 359.0, 0.0); (480401.5,
3774464.0, 360.0, 360.0, 0.0);
(480451.5, 3774464.0, 360.0, 360.0, 0.0); (480501.5,
3774464.0, 360.4, 360.4, 0.0);
(480551.5, 3774464.0, 361.1, 361.1, 0.0); (480601.5,
3774464.0, 362.0, 362.0, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(480651.5, 3774464.0, 362.4, 362.4, 0.0); (480701.5,
3774464.0, 363.0, 363.0, 0.0);
(480751.5, 3774464.0, 363.0, 363.0, 0.0); (480801.5,
3774464.0, 364.0, 364.0, 0.0);
(480851.5, 3774464.0, 364.0, 364.0, 0.0); (480901.5,
3774464.0, 364.7, 364.7, 0.0);
(480951.5, 3774464.0, 365.0, 365.0, 0.0); (481001.5,
3774464.0, 365.1, 365.1, 0.0);

```
     ( 481051.5, 3774464.0,     366.0,     366.0,       0.0);         ( 481101.5,
3774464.0,     366.0,     366.0,       0.0);
     ( 481151.5, 3774464.0,     367.0,     367.0,       0.0);         ( 481201.5,
3774464.0,     367.7,     367.7,       0.0);
     ( 481251.5, 3774464.0,     368.4,     368.4,       0.0);         ( 481301.5,
3774464.0,     369.1,     369.1,       0.0);
     ( 481351.5, 3774464.0,     370.0,     370.0,       0.0);         ( 481401.5,
3774464.0,     370.4,     370.4,       0.0);
     ( 481451.5, 3774464.0,     371.0,     371.0,       0.0);         ( 481501.5,
3774464.0,     371.7,     371.7,       0.0);
     ( 479301.5, 3774514.0,     350.4,     350.4,       0.0);         ( 479351.5,
3774514.0,     351.0,     351.0,       0.0);
     ( 479401.5, 3774514.0,     351.0,     351.0,       0.0);         ( 479451.5,
3774514.0,     352.0,     352.0,       0.0);
     ( 479501.5, 3774514.0,     352.0,     352.0,       0.0);         ( 479551.5,
3774514.0,     352.7,     352.7,       0.0);
     ( 479601.5, 3774514.0,     353.0,     353.0,       0.0);         ( 479651.5,
3774514.0,     354.0,     354.0,       0.0);
     ( 479701.5, 3774514.0,     354.0,     354.0,       0.0);         ( 479751.5,
3774514.0,     354.0,     354.0,       0.0);
     ( 479801.5, 3774514.0,     355.0,     355.0,       0.0);         ( 479851.5,
3774514.0,     355.0,     355.0,       0.0);
     ( 479901.5, 3774514.0,     356.0,     356.0,       0.0);         ( 479951.5,
3774514.0,     356.0,     356.0,       0.0);
     ( 480001.5, 3774514.0,     356.7,     356.7,       0.0);         ( 480051.5,
3774514.0,     357.0,     357.0,       0.0);
     ( 480101.5, 3774514.0,     357.0,     357.0,       0.0);         ( 480151.5,
3774514.0,     357.9,     357.9,       0.0);
     ( 480201.5, 3774514.0,     358.0,     358.0,       0.0);         ( 480251.5,
3774514.0,     358.1,     358.1,       0.0);
     ( 480301.5, 3774514.0,     359.0,     359.0,       0.0);         ( 480351.5,
3774514.0,     359.0,     359.0,       0.0);
     ( 480401.5, 3774514.0,     360.0,     360.0,       0.0);         ( 480451.5,
3774514.0,     360.0,     360.0,       0.0);
     ( 480501.5, 3774514.0,     361.0,     361.0,       0.0);         ( 480551.5,
3774514.0,     361.1,     361.1,       0.0);
     ( 480601.5, 3774514.0,     362.0,     362.0,       0.0);         ( 480651.5,
3774514.0,     362.4,     362.4,       0.0);
     ( 480701.5, 3774514.0,     363.0,     363.0,       0.0);         ( 480751.5,
3774514.0,     363.7,     363.7,       0.0);
     ( 480801.5, 3774514.0,     364.0,     364.0,       0.0);         ( 480851.5,
3774514.0,     364.0,     364.0,       0.0);
     ( 480901.5, 3774514.0,     364.9,     364.9,       0.0);         ( 480951.5,
3774514.0,     365.0,     365.0,       0.0);
     ( 481001.5, 3774514.0,     366.0,     366.0,       0.0);         ( 481051.5,
3774514.0,     366.0,     366.0,       0.0);
     ( 481101.5, 3774514.0,     366.8,     366.8,       0.0);         ( 481151.5,
3774514.0,     367.1,     367.1,       0.0);
     ( 481201.5, 3774514.0,     368.0,     368.0,       0.0);         ( 481251.5,
3774514.0,     368.8,     368.8,       0.0);
     ( 481301.5, 3774514.0,     369.6,     369.6,       0.0);         ( 481351.5,
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3774514.0,   370.0,   370.0,   0.0);
     (481401.5, 3774514.0,   371.0,   371.0,   0.0);   (481451.5,
3774514.0,   371.1,   371.1,   0.0);
     (481501.5, 3774514.0,   372.0,   372.0,   0.0);   (481551.5,
3774514.0,   372.0,   372.0,   0.0);
     (479301.5, 3774564.0,   350.4,   350.4,   0.0);   (479351.5,
3774564.0,   351.0,   351.0,   0.0);
     (479401.5, 3774564.0,   351.2,   351.2,   0.0);   (479451.5,
3774564.0,   352.0,   352.0,   0.0);
     (479501.5, 3774564.0,   352.0,   352.0,   0.0);   (479551.5,
3774564.0,   352.7,   352.7,   0.0);
     (479601.5, 3774564.0,   353.0,   353.0,   0.0);   (479651.5,
3774564.0,   354.0,   354.0,   0.0);
     (479701.5, 3774564.0,   354.0,   354.0,   0.0);   (479751.5,
3774564.0,   354.4,   354.4,   0.0);
     (479801.5, 3774564.0,   355.0,   355.0,   0.0);   (479851.5,
3774564.0,   355.0,   355.0,   0.0);
     (479901.5, 3774564.0,   356.0,   356.0,   0.0);   (479951.5,
3774564.0,   356.0,   356.0,   0.0);
     (480001.5, 3774564.0,   356.8,   356.8,   0.0);   (480051.5,
3774564.0,   357.0,   357.0,   0.0);
     (480101.5, 3774564.0,   358.0,   358.0,   0.0);   (480151.5,
3774564.0,   358.0,   358.0,   0.0);
     (480201.5, 3774564.0,   358.0,   358.0,   0.0);   (480251.5,
3774564.0,   359.0,   359.0,   0.0);
     (480301.5, 3774564.0,   359.0,   359.0,   0.0);   (480351.5,
3774564.0,   359.5,   359.5,   0.0);
     (480401.5, 3774564.0,   360.0,   360.0,   0.0);   (480451.5,
3774564.0,   360.2,   360.2,   0.0);
     (480501.5, 3774564.0,   361.0,   361.0,   0.0);   (480551.5,
3774564.0,   362.0,   362.0,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (480601.5, 3774564.0,   362.0,   362.0,   0.0);   (480651.5,
3774564.0,   362.5,   362.5,   0.0);
     (480701.5, 3774564.0,   363.0,   363.0,   0.0);   (480751.5,
3774564.0,   363.8,   363.8,   0.0);
     (480801.5, 3774564.0,   364.0,   364.0,   0.0);   (480851.5,
3774564.0,   364.3,   364.3,   0.0);
     (480901.5, 3774564.0,   365.0,   365.0,   0.0);   (480951.5,
3774564.0,   365.4,   365.4,   0.0);

```
     ( 481001.5, 3774564.0,     366.0,     366.0,       0.0);         ( 481051.5,
3774564.0,     366.2,     366.2,       0.0);
     ( 481101.5, 3774564.0,     367.1,     367.1,       0.0);         ( 481151.5,
3774564.0,     368.0,     368.0,       0.0);
     ( 481201.5, 3774564.0,     368.2,     368.2,       0.0);         ( 481251.5,
3774564.0,     369.0,     369.0,       0.0);
     ( 481301.5, 3774564.0,     370.0,     370.0,       0.0);         ( 481351.5,
3774564.0,     370.2,     370.2,       0.0);
     ( 481401.5, 3774564.0,     371.0,     371.0,       0.0);         ( 481451.5,
3774564.0,     372.0,     372.0,       0.0);
     ( 481501.5, 3774564.0,     372.0,     372.0,       0.0);         ( 481551.5,
3774564.0,     372.5,     372.5,       0.0);
     ( 479301.5, 3774614.0,     350.9,     350.9,       0.0);         ( 479351.5,
3774614.0,     351.0,     351.0,       0.0);
     ( 479401.5, 3774614.0,     351.7,     351.7,       0.0);         ( 479451.5,
3774614.0,     352.0,     352.0,       0.0);
     ( 479501.5, 3774614.0,     352.1,     352.1,       0.0);         ( 479551.5,
3774614.0,     353.0,     353.0,       0.0);
     ( 479601.5, 3774614.0,     353.0,     353.0,       0.0);         ( 479651.5,
3774614.0,     354.0,     354.0,       0.0);
     ( 479701.5, 3774614.0,     354.0,     354.0,       0.0);         ( 479751.5,
3774614.0,     354.9,     354.9,       0.0);
     ( 479801.5, 3774614.0,     355.0,     355.0,       0.0);         ( 479851.5,
3774614.0,     355.7,     355.7,       0.0);
     ( 479901.5, 3774614.0,     356.0,     356.0,       0.0);         ( 479951.5,
3774614.0,     356.1,     356.1,       0.0);
     ( 480001.5, 3774614.0,     357.0,     357.0,       0.0);         ( 480051.5,
3774614.0,     357.0,     357.0,       0.0);
     ( 480101.5, 3774614.0,     358.0,     358.0,       0.0);         ( 480151.5,
3774614.0,     358.0,     358.0,       0.0);
     ( 480201.5, 3774614.0,     358.4,     358.4,       0.0);         ( 480251.5,
3774614.0,     359.0,     359.0,       0.0);
     ( 480301.5, 3774614.0,     359.7,     359.7,       0.0);         ( 480351.5,
3774614.0,     360.0,     360.0,       0.0);
     ( 480401.5, 3774614.0,     360.1,     360.1,       0.0);         ( 480451.5,
3774614.0,     361.0,     361.0,       0.0);
     ( 480501.5, 3774614.0,     361.4,     361.4,       0.0);         ( 480551.5,
3774614.0,     362.0,     362.0,       0.0);
     ( 480601.5, 3774614.0,     362.0,     362.0,       0.0);         ( 480651.5,
3774614.0,     363.0,     363.0,       0.0);
     ( 480701.5, 3774614.0,     363.1,     363.1,       0.0);         ( 480751.5,
3774614.0,     364.0,     364.0,       0.0);
     ( 480801.5, 3774614.0,     364.0,     364.0,       0.0);         ( 480851.5,
3774614.0,     365.0,     365.0,       0.0);
     ( 480901.5, 3774614.0,     365.0,     365.0,       0.0);         ( 480951.5,
3774614.0,     365.9,     365.9,       0.0);
     ( 481001.5, 3774614.0,     366.1,     366.1,       0.0);         ( 481051.5,
3774614.0,     367.0,     367.0,       0.0);
     ( 481101.5, 3774614.0,     367.4,     367.4,       0.0);         ( 481151.5,
3774614.0,     368.0,     368.0,       0.0);
     ( 481201.5, 3774614.0,     368.7,     368.7,       0.0);         ( 481251.5,
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3774614.0,   369.4,   369.4,   0.0);
     (481301.5, 3774614.0,   370.0,   370.0,   0.0);   (481351.5,
3774614.0,   370.7,   370.7,   0.0);
     (481401.5, 3774614.0,   371.4,   371.4,   0.0);   (481451.5,
3774614.0,   372.0,   372.0,   0.0);
     (481501.5, 3774614.0,   372.7,   372.7,   0.0);   (481551.5,
3774614.0,   373.0,   373.0,   0.0);
     (479301.5, 3774664.0,   351.0,   351.0,   0.0);   (479351.5,
3774664.0,   351.0,   351.0,   0.0);
     (479401.5, 3774664.0,   351.9,   351.9,   0.0);   (479451.5,
3774664.0,   352.0,   352.0,   0.0);
     (479501.5, 3774664.0,   352.6,   352.6,   0.0);   (479551.5,
3774664.0,   353.0,   353.0,   0.0);
     (479601.5, 3774664.0,   353.4,   353.4,   0.0);   (479651.5,
3774664.0,   354.0,   354.0,   0.0);
     (479701.5, 3774664.0,   354.0,   354.0,   0.0);   (479751.5,
3774664.0,   355.0,   355.0,   0.0);
     (479801.5, 3774664.0,   355.0,   355.0,   0.0);   (479851.5,
3774664.0,   355.9,   355.9,   0.0);
     (479901.5, 3774664.0,   356.0,   356.0,   0.0);   (479951.5,
3774664.0,   356.1,   356.1,   0.0);
     (480001.5, 3774664.0,   357.0,   357.0,   0.0);   (480051.5,
3774664.0,   357.4,   357.4,   0.0);
     (480101.5, 3774664.0,   358.0,   358.0,   0.0);   (480151.5,
3774664.0,   358.0,   358.0,   0.0);
     (480201.5, 3774664.0,   359.0,   359.0,   0.0);   (480251.5,
3774664.0,   359.1,   359.1,   0.0);
     (480301.5, 3774664.0,   360.0,   360.0,   0.0);   (480351.5,
3774664.0,   360.0,   360.0,   0.0);
     (480401.5, 3774664.0,   360.6,   360.6,   0.0);   (480451.5,
3774664.0,   361.0,   361.0,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (480501.5, 3774664.0,   362.0,   362.0,   0.0);   (480551.5,
3774664.0,   362.0,   362.0,   0.0);
     (480601.5, 3774664.0,   362.7,   362.7,   0.0);   (480651.5,
3774664.0,   363.0,   363.0,   0.0);
     (480701.5, 3774664.0,   363.6,   363.6,   0.0);   (480751.5,
3774664.0,   364.0,   364.0,   0.0);
     (480801.5, 3774664.0,   364.4,   364.4,   0.0);   (480851.5,
3774664.0,   365.0,   365.0,   0.0);

```
     ( 480901.5, 3774664.0,     365.7,     365.7,       0.0);         ( 480951.5,
3774664.0,     366.0,     366.0,       0.0);
     ( 481001.5, 3774664.0,     366.6,     366.6,       0.0);         ( 481051.5,
3774664.0,     367.4,     367.4,       0.0);
     ( 481101.5, 3774664.0,     368.0,     368.0,       0.0);         ( 481151.5,
3774664.0,     368.6,     368.6,       0.0);
     ( 481201.5, 3774664.0,     369.0,     369.0,       0.0);         ( 481251.5,
3774664.0,     369.8,     369.8,       0.0);
     ( 481301.5, 3774664.0,     370.0,     370.0,       0.0);         ( 481351.5,
3774664.0,     370.9,     370.9,       0.0);
     ( 481401.5, 3774664.0,     371.8,     371.8,       0.0);         ( 481451.5,
3774664.0,     372.0,     372.0,       0.0);
     ( 481501.5, 3774664.0,     372.9,     372.9,       0.0);         ( 481551.5,
3774664.0,     373.2,     373.2,       0.0);
     ( 479301.5, 3774714.0,     351.0,     351.0,       0.0);         ( 479351.5,
3774714.0,     351.3,     351.3,       0.0);
     ( 479401.5, 3774714.0,     352.0,     352.0,       0.0);         ( 479451.5,
3774714.0,     352.0,     352.0,       0.0);
     ( 479501.5, 3774714.0,     353.0,     353.0,       0.0);         ( 479551.5,
3774714.0,     353.0,     353.0,       0.0);
     ( 479601.5, 3774714.0,     354.0,     354.0,       0.0);         ( 479651.5,
3774714.0,     354.0,     354.0,       0.0);
     ( 479701.5, 3774714.0,     354.7,     354.7,       0.0);         ( 479751.5,
3774714.0,     355.0,     355.0,       0.0);
     ( 479801.5, 3774714.0,     355.3,     355.3,       0.0);         ( 479851.5,
3774714.0,     356.0,     356.0,       0.0);
     ( 479901.5, 3774714.0,     356.0,     356.0,       0.0);         ( 479951.5,
3774714.0,     357.0,     357.0,       0.0);
     ( 480001.5, 3774714.0,     357.0,     357.0,       0.0);         ( 480051.5,
3774714.0,     357.5,     357.5,       0.0);
     ( 480101.5, 3774714.0,     358.0,     358.0,       0.0);         ( 480151.5,
3774714.0,     358.7,     358.7,       0.0);
     ( 480201.5, 3774714.0,     359.0,     359.0,       0.0);         ( 480251.5,
3774714.0,     360.0,     360.0,       0.0);
     ( 480301.5, 3774714.0,     360.0,     360.0,       0.0);         ( 480351.5,
3774714.0,     360.4,     360.4,       0.0);
     ( 480401.5, 3774714.0,     361.0,     361.0,       0.0);         ( 480451.5,
3774714.0,     361.7,     361.7,       0.0);
     ( 480501.5, 3774714.0,     362.0,     362.0,       0.0);         ( 480551.5,
3774714.0,     362.3,     362.3,       0.0);
     ( 480601.5, 3774714.0,     363.0,     363.0,       0.0);         ( 480651.5,
3774714.0,     363.1,     363.1,       0.0);
     ( 480701.5, 3774714.0,     364.0,     364.0,       0.0);         ( 480751.5,
3774714.0,     364.0,     364.0,       0.0);
     ( 480801.5, 3774714.0,     364.5,     364.5,       0.0);         ( 480851.5,
3774714.0,     365.1,     365.1,       0.0);
     ( 480901.5, 3774714.0,     366.0,     366.0,       0.0);         ( 480951.5,
3774714.0,     366.4,     366.4,       0.0);
     ( 481001.5, 3774714.0,     367.0,     367.0,       0.0);         ( 481051.5,
3774714.0,     367.8,     367.8,       0.0);
     ( 481101.5, 3774714.0,     368.1,     368.1,       0.0);         ( 481151.5,
```

3774714.0,   369.0,   369.0,   0.0);
     (481201.5, 3774714.0,   369.2,   369.2,   0.0);   (481251.5,
3774714.0,   370.0,   370.0,   0.0);
     (481301.5, 3774714.0,   370.3,   370.3,   0.0);   (481351.5,
3774714.0,   371.2,   371.2,   0.0);
     (481401.5, 3774714.0,   372.0,   372.0,   0.0);   (481451.5,
3774714.0,   372.3,   372.3,   0.0);
     (481501.5, 3774714.0,   373.2,   373.2,   0.0);   (479301.5,
3774764.0,   351.0,   351.0,   0.0);
     (479351.5, 3774764.0,   352.0,   352.0,   0.0);   (479401.5,
3774764.0,   352.0,   352.0,   0.0);
     (479451.5, 3774764.0,   352.4,   352.4,   0.0);   (479501.5,
3774764.0,   353.0,   353.0,   0.0);
     (479551.5, 3774764.0,   353.0,   353.0,   0.0);   (479601.5,
3774764.0,   354.0,   354.0,   0.0);
     (479651.5, 3774764.0,   354.0,   354.0,   0.0);   (479701.5,
3774764.0,   354.7,   354.7,   0.0);
     (479751.5, 3774764.0,   355.0,   355.0,   0.0);   (479801.5,
3774764.0,   356.0,   356.0,   0.0);
     (479851.5, 3774764.0,   356.0,   356.0,   0.0);   (479901.5,
3774764.0,   356.0,   356.0,   0.0);
     (479951.5, 3774764.0,   357.0,   357.0,   0.0);   (480001.5,
3774764.0,   357.0,   357.0,   0.0);
     (480051.5, 3774764.0,   358.0,   358.0,   0.0);   (480101.5,
3774764.0,   358.0,   358.0,   0.0);
     (480151.5, 3774764.0,   358.7,   358.7,   0.0);   (480201.5,
3774764.0,   359.4,   359.4,   0.0);
     (480251.5, 3774764.0,   360.0,   360.0,   0.0);   (480301.5,
3774764.0,   360.0,   360.0,   0.0);
     (480351.5, 3774764.0,   360.9,   360.9,   0.0);   (480401.5,
3774764.0,   361.0,   361.0,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (480451.5, 3774764.0,   361.7,   361.7,   0.0);   (480501.5,
3774764.0,   362.0,   362.0,   0.0);
     (480551.5, 3774764.0,   363.0,   363.0,   0.0);   (480601.5,
3774764.0,   363.0,   363.0,   0.0);
     (480651.5, 3774764.0,   363.9,   363.9,   0.0);   (480701.5,
3774764.0,   364.0,   364.0,   0.0);
     (480751.5, 3774764.0,   364.7,   364.7,   0.0);   (480801.5,
3774764.0,   365.0,   365.0,   0.0);

```
     ( 480851.5, 3774764.0,     365.1,     365.1,       0.0);         ( 480901.5,
3774764.0,     366.0,     366.0,       0.0);
     ( 480951.5, 3774764.0,     366.9,     366.9,       0.0);         ( 481001.5,
3774764.0,     367.1,     367.1,       0.0);
     ( 481051.5, 3774764.0,     368.0,     368.0,       0.0);         ( 481101.5,
3774764.0,     368.4,     368.4,       0.0);
     ( 481151.5, 3774764.0,     369.1,     369.1,       0.0);         ( 481201.5,
3774764.0,     370.0,     370.0,       0.0);
     ( 481251.5, 3774764.0,     370.4,     370.4,       0.0);         ( 481301.5,
3774764.0,     371.0,     371.0,       0.0);
     ( 481351.5, 3774764.0,     371.7,     371.7,       0.0);         ( 481401.5,
3774764.0,     372.4,     372.4,       0.0);
     ( 481451.5, 3774764.0,     373.0,     373.0,       0.0);         ( 481501.5,
3774764.0,     373.7,     373.7,       0.0);
     ( 479301.5, 3774814.0,     351.0,     351.0,       0.0);         ( 479351.5,
3774814.0,     352.0,     352.0,       0.0);
     ( 479401.5, 3774814.0,     352.0,     352.0,       0.0);         ( 479451.5,
3774814.0,     352.8,     352.8,       0.0);
     ( 479501.5, 3774814.0,     353.0,     353.0,       0.0);         ( 479551.5,
3774814.0,     353.7,     353.7,       0.0);
     ( 479601.5, 3774814.0,     354.0,     354.0,       0.0);         ( 479651.5,
3774814.0,     354.0,     354.0,       0.0);
     ( 479701.5, 3774814.0,     354.9,     354.9,       0.0);         ( 479751.5,
3774814.0,     355.0,     355.0,       0.0);
     ( 479801.5, 3774814.0,     356.0,     356.0,       0.0);         ( 479851.5,
3774814.0,     356.0,     356.0,       0.0);
     ( 479901.5, 3774814.0,     356.4,     356.4,       0.0);         ( 479951.5,
3774814.0,     357.0,     357.0,       0.0);
     ( 480001.5, 3774814.0,     357.0,     357.0,       0.0);         ( 480051.5,
3774814.0,     358.0,     358.0,       0.0);
     ( 480101.5, 3774814.0,     358.0,     358.0,       0.0);         ( 480151.5,
3774814.0,     358.7,     358.7,       0.0);
     ( 480201.5, 3774814.0,     359.4,     359.4,       0.0);         ( 480251.5,
3774814.0,     360.0,     360.0,       0.0);
     ( 480301.5, 3774814.0,     360.0,     360.0,       0.0);         ( 480351.5,
3774814.0,     361.0,     361.0,       0.0);
     ( 480401.5, 3774814.0,     361.1,     361.1,       0.0);         ( 480451.5,
3774814.0,     362.0,     362.0,       0.0);
     ( 480501.5, 3774814.0,     362.2,     362.2,       0.0);         ( 480551.5,
3774814.0,     363.0,     363.0,       0.0);
     ( 480601.5, 3774814.0,     363.7,     363.7,       0.0);         ( 480651.5,
3774814.0,     364.2,     364.2,       0.0);
     ( 480701.5, 3774814.0,     365.0,     365.0,       0.0);         ( 480751.5,
3774814.0,     365.0,     365.0,       0.0);
     ( 480801.5, 3774814.0,     365.0,     365.0,       0.0);         ( 480851.5,
3774814.0,     366.0,     366.0,       0.0);
     ( 480901.5, 3774814.0,     366.0,     366.0,       0.0);         ( 480951.5,
3774814.0,     367.0,     367.0,       0.0);
     ( 481001.5, 3774814.0,     368.0,     368.0,       0.0);         ( 481051.5,
3774814.0,     368.4,     368.4,       0.0);
     ( 481101.5, 3774814.0,     369.0,     369.0,       0.0);         ( 481151.5,
```

3774814.0,   369.6,   369.6,   0.0);
     (481201.5, 3774814.0,   370.0,   370.0,   0.0);   (481251.5,
3774814.0,   370.8,   370.8,   0.0);
     (481301.5, 3774814.0,   371.1,   371.1,   0.0);   (481351.5,
3774814.0,   372.0,   372.0,   0.0);
     (481401.5, 3774814.0,   372.8,   372.8,   0.0);   (481451.5,
3774814.0,   373.6,   373.6,   0.0);
     (481501.5, 3774814.0,   374.0,   374.0,   0.0);   (479301.5,
3774864.0,   351.0,   351.0,   0.0);
     (479351.5, 3774864.0,   352.0,   352.0,   0.0);   (479401.5,
3774864.0,   352.0,   352.0,   0.0);
     (479451.5, 3774864.0,   353.0,   353.0,   0.0);   (479501.5,
3774864.0,   353.1,   353.1,   0.0);
     (479551.5, 3774864.0,   354.0,   354.0,   0.0);   (479601.5,
3774864.0,   354.0,   354.0,   0.0);
     (479651.5, 3774864.0,   354.1,   354.1,   0.0);   (479701.5,
3774864.0,   355.0,   355.0,   0.0);
     (479751.5, 3774864.0,   355.0,   355.0,   0.0);   (479801.5,
3774864.0,   356.0,   356.0,   0.0);
     (479851.5, 3774864.0,   356.0,   356.0,   0.0);   (479901.5,
3774864.0,   356.4,   356.4,   0.0);
     (479951.5, 3774864.0,   357.0,   357.0,   0.0);   (480001.5,
3774864.0,   357.7,   357.7,   0.0);
     (480051.5, 3774864.0,   358.0,   358.0,   0.0);   (480101.5,
3774864.0,   358.0,   358.0,   0.0);
     (480151.5, 3774864.0,   358.7,   358.7,   0.0);   (480201.5,
3774864.0,   359.3,   359.3,   0.0);
     (480251.5, 3774864.0,   360.0,   360.0,   0.0);   (480301.5,
3774864.0,   360.0,   360.0,   0.0);
     (480351.5, 3774864.0,   361.0,   361.0,   0.0);   (480401.5,
3774864.0,   361.3,   361.3,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (480451.5, 3774864.0,   362.0,   362.0,   0.0);   (480501.5,
3774864.0,   362.4,   362.4,   0.0);
     (480551.5, 3774864.0,   363.1,   363.1,   0.0);   (480601.5,
3774864.0,   364.0,   364.0,   0.0);
     (480651.5, 3774864.0,   364.5,   364.5,   0.0);   (480701.5,
3774864.0,   366.0,   366.0,   0.0);
     (480751.5, 3774864.0,   365.5,   365.5,   0.0);   (480801.5,
3774864.0,   365.2,   365.2,   0.0);

```
     ( 480851.5, 3774864.0,     366.0,     366.0,       0.0);         ( 480901.5,
3774864.0,     366.2,     366.2,       0.0);
     ( 480951.5, 3774864.0,     367.4,     367.4,       0.0);         ( 481001.5,
3774864.0,     368.0,     368.0,       0.0);
     ( 481051.5, 3774864.0,     368.8,     368.8,       0.0);         ( 481101.5,
3774864.0,     369.4,     369.4,       0.0);
     ( 481151.5, 3774864.0,     370.0,     370.0,       0.0);         ( 481201.5,
3774864.0,     370.2,     370.2,       0.0);
     ( 481251.5, 3774864.0,     371.1,     371.1,       0.0);         ( 481301.5,
3774864.0,     372.0,     372.0,       0.0);
     ( 481351.5, 3774864.0,     372.7,     372.7,       0.0);         ( 481401.5,
3774864.0,     373.4,     373.4,       0.0);
     ( 481451.5, 3774864.0,     374.0,     374.0,       0.0);         ( 481501.5,
3774864.0,     374.8,     374.8,       0.0);
     ( 479301.5, 3774914.0,     351.0,     351.0,       0.0);         ( 479351.5,
3774914.0,     352.0,     352.0,       0.0);
     ( 479401.5, 3774914.0,     352.0,     352.0,       0.0);         ( 479451.5,
3774914.0,     353.0,     353.0,       0.0);
     ( 479501.5, 3774914.0,     353.1,     353.1,       0.0);         ( 479551.5,
3774914.0,     354.0,     354.0,       0.0);
     ( 479601.5, 3774914.0,     354.0,     354.0,       0.0);         ( 479651.5,
3774914.0,     354.1,     354.1,       0.0);
     ( 479701.5, 3774914.0,     355.0,     355.0,       0.0);         ( 479751.5,
3774914.0,     355.0,     355.0,       0.0);
     ( 479801.5, 3774914.0,     356.0,     356.0,       0.0);         ( 479851.5,
3774914.0,     356.0,     356.0,       0.0);
     ( 479901.5, 3774914.0,     356.4,     356.4,       0.0);         ( 479951.5,
3774914.0,     357.0,     357.0,       0.0);
     ( 480001.5, 3774914.0,     357.7,     357.7,       0.0);         ( 480051.5,
3774914.0,     358.0,     358.0,       0.0);
     ( 480101.5, 3774914.0,     358.1,     358.1,       0.0);         ( 480151.5,
3774914.0,     359.0,     359.0,       0.0);
     ( 480201.5, 3774914.0,     359.0,     359.0,       0.0);         ( 480251.5,
3774914.0,     360.0,     360.0,       0.0);
     ( 480301.5, 3774914.0,     360.0,     360.0,       0.0);         ( 480351.5,
3774914.0,     361.0,     361.0,       0.0);
     ( 480401.5, 3774914.0,     362.0,     362.0,       0.0);         ( 480451.5,
3774914.0,     362.0,     362.0,       0.0);
     ( 480501.5, 3774914.0,     362.9,     362.9,       0.0);         ( 480551.5,
3774914.0,     363.1,     363.1,       0.0);
     ( 480601.5, 3774914.0,     364.0,     364.0,       0.0);         ( 480651.5,
3774914.0,     365.0,     365.0,       0.0);
     ( 480701.5, 3774914.0,     366.0,     366.0,       0.0);         ( 480751.5,
3774914.0,     366.0,     366.0,       0.0);
     ( 480801.5, 3774914.0,     366.0,     366.0,       0.0);         ( 480851.5,
3774914.0,     366.0,     366.0,       0.0);
     ( 480901.5, 3774914.0,     366.7,     366.7,       0.0);         ( 480951.5,
3774914.0,     367.4,     367.4,       0.0);
     ( 481001.5, 3774914.0,     368.1,     368.1,       0.0);         ( 481051.5,
3774914.0,     369.0,     369.0,       0.0);
     ( 481101.5, 3774914.0,     369.9,     369.9,       0.0);         ( 481151.5,
```

3774914.0,   370.1,   370.1,   0.0);
     (481201.5, 3774914.0,   371.0,   371.0,   0.0);   (481251.5,
3774914.0,   371.4,   371.4,   0.0);
     (481301.5, 3774914.0,   372.1,   372.1,   0.0);   (481351.5,
3774914.0,   373.0,   373.0,   0.0);
     (481401.5, 3774914.0,   373.9,   373.9,   0.0);   (481451.5,
3774914.0,   374.9,   374.9,   0.0);
     (481501.5, 3774914.0,   375.7,   375.7,   0.0);   (479301.5,
3774964.0,   351.0,   351.0,   0.0);
     (479351.5, 3774964.0,   352.0,   352.0,   0.0);   (479401.5,
3774964.0,   352.0,   352.0,   0.0);
     (479451.5, 3774964.0,   353.0,   353.0,   0.0);   (479501.5,
3774964.0,   353.1,   353.1,   0.0);
     (479551.5, 3774964.0,   354.0,   354.0,   0.0);   (479601.5,
3774964.0,   354.0,   354.0,   0.0);
     (479651.5, 3774964.0,   354.1,   354.1,   0.0);   (479701.5,
3774964.0,   355.0,   355.0,   0.0);
     (479751.5, 3774964.0,   355.4,   355.4,   0.0);   (479801.5,
3774964.0,   356.0,   356.0,   0.0);
     (479851.5, 3774964.0,   356.0,   356.0,   0.0);   (479901.5,
3774964.0,   356.4,   356.4,   0.0);
     (479951.5, 3774964.0,   357.0,   357.0,   0.0);   (480001.5,
3774964.0,   357.7,   357.7,   0.0);
     (480051.5, 3774964.0,   358.0,   358.0,   0.0);   (480101.5,
3774964.0,   358.1,   358.1,   0.0);
     (480151.5, 3774964.0,   359.0,   359.0,   0.0);   (480201.5,
3774964.0,   359.0,   359.0,   0.0);
     (480251.5, 3774964.0,   360.0,   360.0,   0.0);   (480301.5,
3774964.0,   360.0,   360.0,   0.0);
     (480351.5, 3774964.0,   361.0,   361.0,   0.0);   (480401.5,
3774964.0,   362.0,   362.0,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (480451.5, 3774964.0,   362.0,   362.0,   0.0);   (480501.5,
3774964.0,   363.0,   363.0,   0.0);
     (480551.5, 3774964.0,   364.0,   364.0,   0.0);   (480601.5,
3774964.0,   364.0,   364.0,   0.0);
     (480651.5, 3774964.0,   365.0,   365.0,   0.0);   (480701.5,
3774964.0,   366.0,   366.0,   0.0);
     (480751.5, 3774964.0,   366.4,   366.4,   0.0);   (480801.5,
3774964.0,   366.0,   366.0,   0.0);

```
     ( 480851.5, 3774964.0,     366.1,     366.1,       0.0);         ( 480901.5,
3774964.0,     367.4,     367.4,       0.0);
     ( 480951.5, 3774964.0,     368.2,     368.2,       0.0);         ( 481001.5,
3774964.0,     369.0,     369.0,       0.0);
     ( 481051.5, 3774964.0,     369.9,     369.9,       0.0);         ( 481101.5,
3774964.0,     370.2,     370.2,       0.0);
     ( 481151.5, 3774964.0,     371.0,     371.0,       0.0);         ( 481201.5,
3774964.0,     371.4,     371.4,       0.0);
     ( 481251.5, 3774964.0,     372.2,     372.2,       0.0);         ( 481301.5,
3774964.0,     373.0,     373.0,       0.0);
     ( 481351.5, 3774964.0,     373.9,     373.9,       0.0);         ( 481401.5,
3774964.0,     374.8,     374.8,       0.0);
     ( 481451.5, 3774964.0,     375.6,     375.6,       0.0);         ( 480801.5,
3775014.0,     366.7,     366.7,       0.0);
     ( 480851.5, 3775014.0,     367.3,     367.3,       0.0);         ( 480901.5,
3775014.0,     368.0,     368.0,       0.0);
     ( 480951.5, 3775014.0,     368.5,     368.5,       0.0);         ( 481001.5,
3775014.0,     369.3,     369.3,       0.0);
     ( 481051.5, 3775014.0,     370.2,     370.2,       0.0);         ( 481101.5,
3775014.0,     371.0,     371.0,       0.0);
     ( 481151.5, 3775014.0,     371.3,     371.3,       0.0);         ( 481201.5,
3775014.0,     372.2,     372.2,       0.0);
     ( 481251.5, 3775014.0,     373.1,     373.1,       0.0);         ( 481301.5,
3775014.0,     374.0,     374.0,       0.0);
     ( 481351.5, 3775014.0,     375.0,     375.0,       0.0);         ( 481401.5,
3775014.0,     375.5,     375.5,       0.0);
     ( 481451.5, 3775014.0,     376.3,     376.3,       0.0);         ( 480801.5,
3775064.0,     367.4,     367.4,       0.0);
     ( 480851.5, 3775064.0,     368.0,     368.0,       0.0);         ( 480901.5,
3775064.0,     368.7,     368.7,       0.0);
     ( 480951.5, 3775064.0,     369.4,     369.4,       0.0);         ( 481001.5,
3775064.0,     370.0,     370.0,       0.0);
     ( 481051.5, 3775064.0,     370.7,     370.7,       0.0);         ( 481101.5,
3775064.0,     371.4,     371.4,       0.0);
     ( 481151.5, 3775064.0,     372.0,     372.0,       0.0);         ( 481201.5,
3775064.0,     372.7,     372.7,       0.0);
     ( 481251.5, 3775064.0,     373.9,     373.9,       0.0);         ( 481301.5,
3775064.0,     375.0,     375.0,       0.0);
     ( 481351.5, 3775064.0,     376.0,     376.0,       0.0);         ( 481401.5,
3775064.0,     376.9,     376.9,       0.0);
     ( 481451.5, 3775064.0,     377.1,     377.1,       0.0);         ( 480801.5,
3775114.0,     367.8,     367.8,       0.0);
     ( 480851.5, 3775114.0,     368.6,     368.6,       0.0);         ( 480901.5,
3775114.0,     369.4,     369.4,       0.0);
     ( 480951.5, 3775114.0,     370.0,     370.0,       0.0);         ( 481001.5,
3775114.0,     370.6,     370.6,       0.0);
     ( 481051.5, 3775114.0,     371.4,     371.4,       0.0);         ( 481101.5,
3775114.0,     372.2,     372.2,       0.0);
     ( 481151.5, 3775114.0,     373.0,     373.0,       0.0);         ( 481201.5,
3775114.0,     373.9,     373.9,       0.0);
     ( 481251.5, 3775114.0,     375.0,     375.0,       0.0);         ( 481301.5,
```

3775114.0,   376.0,   376.0,   0.0);
     (481351.5, 3775114.0,   376.9,   376.9,   0.0);   (481401.5,
3775114.0,   377.8,   377.8,   0.0);
     (481451.5, 3775114.0,   378.0,   378.0,   0.0);   (480801.5,
3775164.0,   368.1,   368.1,   0.0);
     (480851.5, 3775164.0,   369.1,   369.1,   0.0);   (480901.5,
3775164.0,   370.0,   370.0,   0.0);
     (480951.5, 3775164.0,   370.5,   370.5,   0.0);   (481001.5,
3775164.0,   371.3,   371.3,   0.0);
     (481051.5, 3775164.0,   372.2,   372.2,   0.0);   (481101.5,
3775164.0,   373.1,   373.1,   0.0);
     (481151.5, 3775164.0,   374.3,   374.3,   0.0);   (481201.5,
3775164.0,   375.0,   375.0,   0.0);
     (481251.5, 3775164.0,   376.1,   376.1,   0.0);   (481301.5,
3775164.0,   377.0,   377.0,   0.0);
     (481351.5, 3775164.0,   377.8,   377.8,   0.0);   (481401.5,
3775164.0,   378.6,   378.6,   0.0);
     (481451.5, 3775164.0,   379.3,   379.3,   0.0);   (480801.5,
3775214.0,   368.9,   368.9,   0.0);
     (480851.5, 3775214.0,   369.9,   369.9,   0.0);   (480901.5,
3775214.0,   370.7,   370.7,   0.0);
     (480951.5, 3775214.0,   371.4,   371.4,   0.0);   (481001.5,
3775214.0,   372.0,   372.0,   0.0);
     (481051.5, 3775214.0,   372.7,   372.7,   0.0);   (481101.5,
3775214.0,   373.9,   373.9,   0.0);
     (481151.5, 3775214.0,   375.1,   375.1,   0.0);   (481201.5,
3775214.0,   376.0,   376.0,   0.0);
     (481251.5, 3775214.0,   377.3,   377.3,   0.0);   (481301.5,
3775214.0,   377.9,   377.9,   0.0);
     (481351.5, 3775214.0,   378.7,   378.7,   0.0);   (481401.5,
3775214.0,   379.9,   379.9,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (481451.5, 3775214.0,   380.9,   380.9,   0.0);   (480801.5,
3775264.0,   369.8,   369.8,   0.0);
     (480851.5, 3775264.0,   370.6,   370.6,   0.0);   (480901.5,
3775264.0,   371.4,   371.4,   0.0);
     (480951.5, 3775264.0,   372.2,   372.2,   0.0);   (481001.5,
3775264.0,   372.6,   372.6,   0.0);
     (481051.5, 3775264.0,   373.9,   373.9,   0.0);   (481101.5,
3775264.0,   375.0,   375.0,   0.0);

```
     ( 481151.5, 3775264.0,     376.0,     376.0,       0.0);         ( 481201.5,
3775264.0,     377.3,     377.3,       0.0);
     ( 481251.5, 3775264.0,     378.2,     378.2,       0.0);         ( 481301.5,
3775264.0,     379.0,     379.0,       0.0);
     ( 481351.5, 3775264.0,     380.3,     380.3,       0.0);         ( 481401.5,
3775264.0,     381.0,     381.0,       0.0);
     ( 481451.5, 3775264.0,     381.6,     381.6,       0.0);         ( 480801.5,
3775314.0,     370.1,     370.1,       0.0);
     ( 480851.5, 3775314.0,     371.1,     371.1,       0.0);         ( 480901.5,
3775314.0,     372.2,     372.2,       0.0);
     ( 480951.5, 3775314.0,     373.1,     373.1,       0.0);         ( 481001.5,
3775314.0,     374.3,     374.3,       0.0);
     ( 481051.5, 3775314.0,     375.0,     375.0,       0.0);         ( 481101.5,
3775314.0,     376.1,     376.1,       0.0);
     ( 481151.5, 3775314.0,     377.3,     377.3,       0.0);         ( 481201.5,
3775314.0,     378.2,     378.2,       0.0);
     ( 481251.5, 3775314.0,     379.5,     379.5,       0.0);         ( 481301.5,
3775314.0,     380.3,     380.3,       0.0);
     ( 481351.5, 3775314.0,     381.8,     381.8,       0.0);         ( 481401.5,
3775314.0,     382.6,     382.6,       0.0);
     ( 480801.5, 3775364.0,     370.9,     370.9,       0.0);         ( 480851.5,
3775364.0,     372.0,     372.0,       0.0);
     ( 480901.5, 3775364.0,     373.0,     373.0,       0.0);         ( 480951.5,
3775364.0,     374.3,     374.3,       0.0);
     ( 481001.5, 3775364.0,     375.1,     375.1,       0.0);         ( 481051.5,
3775364.0,     376.0,     376.0,       0.0);
     ( 481101.5, 3775364.0,     377.3,     377.3,       0.0);         ( 481151.5,
3775364.0,     378.1,     378.1,       0.0);
     ( 481201.5, 3775364.0,     379.0,     379.0,       0.0);         ( 481251.5,
3775364.0,     380.4,     380.4,       0.0);
     ( 481301.5, 3775364.0,     381.9,     381.9,       0.0);         ( 481351.5,
3775364.0,     382.7,     382.7,       0.0);
     ( 481401.5, 3775364.0,     383.9,     383.9,       0.0);         ( 480801.5,
3775414.0,     371.8,     371.8,       0.0);
     ( 480851.5, 3775414.0,     372.6,     372.6,       0.0);         ( 480901.5,
3775414.0,     373.9,     373.9,       0.0);
     ( 480951.5, 3775414.0,     375.2,     375.2,       0.0);         ( 481001.5,
3775414.0,     376.6,     376.6,       0.0);
     ( 481051.5, 3775414.0,     377.4,     377.4,       0.0);         ( 481101.5,
3775414.0,     378.2,     378.2,       0.0);
     ( 481151.5, 3775414.0,     379.6,     379.6,       0.0);         ( 481201.5,
3775414.0,     380.4,     380.4,       0.0);
     ( 481251.5, 3775414.0,     381.6,     381.6,       0.0);         ( 481301.5,
3775414.0,     382.1,     382.1,       0.0);
     ( 481351.5, 3775414.0,     383.7,     383.7,       0.0);         ( 481401.5,
3775414.0,     385.0,     385.0,       0.0);
     ( 480801.5, 3775464.0,     372.4,     372.4,       0.0);         ( 480851.5,
3775464.0,     374.0,     374.0,       0.0);
     ( 480901.5, 3775464.0,     375.0,     375.0,       0.0);         ( 480951.5,
3775464.0,     376.5,     376.5,       0.0);
     ( 481001.5, 3775464.0,     377.3,     377.3,       0.0);         ( 481051.5,
```

3775464.0,   378.2,   378.2,   0.0);
     (481101.5, 3775464.0,   379.5,   379.5,   0.0);   (481151.5,
3775464.0,   380.3,   380.3,   0.0);
     (481201.5, 3775464.0,   381.8,   381.8,   0.0);   (481251.5,
3775464.0,   382.5,   382.5,   0.0);
     (481301.5, 3775464.0,   383.3,   383.3,   0.0);   (481351.5,
3775464.0,   383.8,   383.8,   0.0);
     (481401.5, 3775464.0,   385.4,   385.4,   0.0);   (480801.5,
3775514.0,   373.3,   373.3,   0.0);
     (480851.5, 3775514.0,   375.0,   375.0,   0.0);   (480901.5,
3775514.0,   376.6,   376.6,   0.0);
     (480951.5, 3775514.0,   377.4,   377.4,   0.0);   (481001.5,
3775514.0,   378.9,   378.9,   0.0);
     (481051.5, 3775514.0,   379.6,   379.6,   0.0);   (481101.5,
3775514.0,   380.4,   380.4,   0.0);
     (481151.5, 3775514.0,   381.9,   381.9,   0.0);   (481201.5,
3775514.0,   382.7,   382.7,   0.0);
     (481251.5, 3775514.0,   383.9,   383.9,   0.0);   (481301.5,
3775514.0,   384.0,   384.0,   0.0);
     (481351.5, 3775514.0,   384.7,   384.7,   0.0);   (481401.5,
3775514.0,   386.7,   386.7,   0.0);
     (480801.5, 3775564.0,   375.0,   375.0,   0.0);   (480851.5,
3775564.0,   376.0,   376.0,   0.0);
     (480901.5, 3775564.0,   377.3,   377.3,   0.0);   (480951.5,
3775564.0,   378.4,   378.4,   0.0);
     (481001.5, 3775564.0,   379.6,   379.6,   0.0);   (481051.5,
3775564.0,   380.4,   380.4,   0.0);
     (481101.5, 3775564.0,   381.8,   381.8,   0.0);   (481151.5,
3775564.0,   382.6,   382.6,   0.0);
     (481201.5, 3775564.0,   383.9,   383.9,   0.0);   (481251.5,
3775564.0,   385.0,   385.0,   0.0);

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                             (METERS)

     (481301.5, 3775564.0,   385.6,   385.6,   0.0);   (481351.5,
3775564.0,   387.3,   387.3,   0.0);
     (481401.5, 3775564.0,   389.0,   389.0,   0.0);   (479332.5,
3774240.2,   350.0,   350.0,   0.0);
     (479382.5, 3774240.2,   350.1,   350.1,   0.0);   (479432.5,
3774240.2,   351.0,   351.0,   0.0);
     (479482.5, 3774240.2,   351.0,   351.0,   0.0);   (479532.5,
3774240.2,   352.0,   352.0,   0.0);

```
     ( 479582.5, 3774240.2,     352.0,     352.0,       0.0);         ( 479632.5,
3774240.2,     352.4,     352.4,       0.0);
     ( 479682.5, 3774240.2,     353.0,     353.0,       0.0);         ( 479732.5,
3774240.2,     353.0,     353.0,       0.0);
     ( 479782.5, 3774240.2,     354.0,     354.0,       0.0);         ( 479832.5,
3774240.2,     354.0,     354.0,       0.0);
     ( 479882.5, 3774240.2,     354.0,     354.0,       0.0);         ( 479932.5,
3774240.2,     354.0,     354.0,       0.0);
     ( 479332.5, 3774290.2,     350.0,     350.0,       0.0);         ( 479382.5,
3774290.2,     351.0,     351.0,       0.0);
     ( 479432.5, 3774290.2,     351.0,     351.0,       0.0);         ( 479482.5,
3774290.2,     351.1,     351.1,       0.0);
     ( 479532.5, 3774290.2,     352.0,     352.0,       0.0);         ( 479582.5,
3774290.2,     352.0,     352.0,       0.0);
     ( 479632.5, 3774290.2,     353.0,     353.0,       0.0);         ( 479682.5,
3774290.2,     353.0,     353.0,       0.0);
     ( 479732.5, 3774290.2,     353.1,     353.1,       0.0);         ( 479782.5,
3774290.2,     353.9,     353.9,       0.0);
     ( 479832.5, 3774290.2,     354.0,     354.0,       0.0);         ( 479882.5,
3774290.2,     354.0,     354.0,       0.0);
     ( 479932.5, 3774290.2,     354.5,     354.5,       0.0);         ( 479332.5,
3774340.2,     350.0,     350.0,       0.0);
     ( 479382.5, 3774340.2,     351.0,     351.0,       0.0);         ( 479432.5,
3774340.2,     351.0,     351.0,       0.0);
     ( 479482.5, 3774340.2,     351.4,     351.4,       0.0);         ( 479532.5,
3774340.2,     352.0,     352.0,       0.0);
     ( 479582.5, 3774340.2,     352.0,     352.0,       0.0);         ( 479632.5,
3774340.2,     353.0,     353.0,       0.0);
     ( 479682.5, 3774340.2,     353.1,     353.1,       0.0);         ( 479732.5,
3774340.2,     353.9,     353.9,       0.0);
     ( 479782.5, 3774340.2,     353.9,     353.9,       0.0);         ( 479832.5,
3774340.2,     354.0,     354.0,       0.0);
     ( 479882.5, 3774340.2,     354.6,     354.6,       0.0);         ( 479932.5,
3774340.2,     355.0,     355.0,       0.0);
     ( 479332.5, 3774390.2,     350.4,     350.4,       0.0);         ( 479382.5,
3774390.2,     351.0,     351.0,       0.0);
     ( 479432.5, 3774390.2,     351.0,     351.0,       0.0);         ( 479482.5,
3774390.2,     352.0,     352.0,       0.0);
     ( 479532.5, 3774390.2,     352.0,     352.0,       0.0);         ( 479582.5,
3774390.2,     352.8,     352.8,       0.0);
     ( 479632.5, 3774390.2,     353.0,     353.0,       0.0);         ( 479682.5,
3774390.2,     354.0,     354.0,       0.0);
     ( 479732.5, 3774390.2,     354.0,     354.0,       0.0);         ( 479782.5,
3774390.2,     354.0,     354.0,       0.0);
     ( 479832.5, 3774390.2,     354.5,     354.5,       0.0);         ( 479882.5,
3774390.2,     355.0,     355.0,       0.0);
     ( 479932.5, 3774390.2,     355.4,     355.4,       0.0);

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                            ***         04/13/23
 *** AERMET - VERSION  16216 ***   ***
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*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

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           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: RDLD_v9.SFC
Met Version: 16216
Profile file: RDLD_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	110.	9.1	285.4	5.5
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	130.	9.1	284.5	5.5
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	100.	9.1	285.0	5.5
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	107.	9.1	284.6	5.5
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	98.	9.1	284.9	5.5
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	86.	9.1	284.5	5.5
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	91.	9.1	284.0	5.5
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90	107.	9.1	285.0	5.5
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10	81.	10.1	289.1	5.5
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40	72.	9.1	295.1	5.5
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68	78.	10.1	297.9	5.5
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80	333.	9.1	299.4	5.5
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80	72.	9.1	300.4	5.5
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80	277.	9.1	301.0	5.5
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70	243.	9.1	301.0	5.5
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30	274.	9.1	300.1	5.5
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90	252.	9.1	298.2	5.5
12	01	01	1	18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90	116.	9.1	296.4	5.5
12	01	01	1	19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22

```
1.00    2.27   79.   10.1  292.2    5.5
 12 01 01   1 20   -5.0  0.102 -9.000 -9.000 -999.   83.     18.1  0.32   3.22
1.00    0.90   95.    9.1  290.2    5.5
 12 01 01   1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90   99.    9.1  287.8    5.5
 12 01 01   1 22   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90  110.    9.1  287.6    5.5
 12 01 01   1 23  -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32   3.22
1.00    1.30   89.    9.1  287.2    5.5
 12 01 01   1 24   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  105.    9.1  285.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   285.5   99.0  -99.00  -99.00
 12 01 01 01    9.1 1  110.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***       04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:46:25

                                   PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITERU ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         480415.97    3774200.25       56.52832                     480386.35
3774201.62       48.03402
         480364.52    3774200.25       37.67820                     480441.34
```

3774196.20 48.22031
480332.65 3774203.34 28.54454 480281.98
3774208.10 19.21664
480259.39 3774210.95 16.49535 480179.23
3774215.23 10.24044
479777.13 3774155.68 2.56053 479903.88
3774153.05 3.47343
479888.73 3774072.72 3.11919 480286.74
3774147.78 14.70791
480415.64 3774088.13 15.05953 480408.03
3774009.17 9.42080
480445.38 3774004.65 9.45200 480447.28
3774028.67 10.71257
480276.83 3774266.75 22.46687 480151.33
3774266.75 9.45983
480135.30 3774266.75 8.71826 479301.50
3774413.98 1.14893
479351.50 3774413.98 1.23280 479401.50
3774413.98 1.32585
479451.50 3774413.98 1.43139 479501.50
3774413.98 1.55159
479551.50 3774413.98 1.68806 479601.50
3774413.98 1.84699
479651.50 3774413.98 2.02971 479701.50
3774413.98 2.24574
479751.50 3774413.98 2.49921 479801.50
3774413.98 2.80276
479851.50 3774413.98 3.17420 479901.50
3774413.98 3.62884
479951.50 3774413.98 4.20307 480001.50
3774413.98 4.93463
480051.50 3774413.98 5.90057 480101.50
3774413.98 7.21152
480151.50 3774413.98 9.05951 480201.50
3774413.98 11.80928
480251.50 3774413.98 16.13096 480301.50
3774413.98 23.52454
480351.50 3774413.98 37.25242 480401.50
3774413.98 62.45562
480451.50 3774413.98 90.48056 480501.50
3774413.98 100.98735
480551.50 3774413.98 101.92839 480601.50
3774413.98 99.33180
480651.50 3774413.98 92.32009 480701.50
3774413.98 74.34073
480751.50 3774413.98 42.92155 480801.50
3774413.98 24.36667
480851.50 3774413.98 16.20263 480901.50
3774413.98 11.84951
480951.50 3774413.98 9.18745 481001.50
3774413.98 7.40174

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         481051.50    3774413.98        6.17985                       481101.50
3774413.98        5.25089
         481151.50    3774413.98        4.61471                       481201.50
3774413.98        4.13241
         481251.50    3774413.98        3.74632                       481301.50
3774413.98        3.42523
         481351.50    3774413.98        3.17015                       481401.50
3774413.98        2.90384
         481451.50    3774413.98        2.71913                       479301.50
3774463.98        1.14221
         479351.50    3774463.98        1.22491                       479401.50
3774463.98        1.31653
         479451.50    3774463.98        1.42100                       479501.50
3774463.98        1.53825
         479551.50    3774463.98        1.67295                       479601.50
3774463.98        1.82715
         479651.50    3774463.98        2.00511                       479701.50
3774463.98        2.21478
         479751.50    3774463.98        2.45972                       479801.50
3774463.98        2.75398
         479851.50    3774463.98        3.10626                       479901.50
3774463.98        3.53795
         479951.50    3774463.98        4.07495                       480001.50
3774463.98        4.75086
         480051.50    3774463.98        5.62938                       480101.50
3774463.98        6.78415
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                       ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:46:25

                                  PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITERU ***
                                  INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480151.50	3774463.98	8.36028	480201.50	3774463.98	10.56455
480251.50	3774463.98	13.74372	480301.50	3774463.98	18.44724
480351.50	3774463.98	25.23532	480401.50	3774463.98	33.89009
480451.50	3774463.98	41.78334	480501.50	3774463.98	46.08765
480551.50	3774463.98	46.95375	480601.50	3774463.98	45.36657
480651.50	3774463.98	41.35792	480701.50	3774463.98	34.30639
480751.50	3774463.98	25.47268	480801.50	3774463.98	18.07452
480851.50	3774463.98	13.27001	480901.50	3774463.98	10.18844
480951.50	3774463.98	8.13443	481001.50	3774463.98	6.68760
481051.50	3774463.98	5.65597	481101.50	3774463.98	4.84413
481151.50	3774463.98	4.26677	481201.50	3774463.98	3.81966
481251.50	3774463.98	3.45949	481301.50	3774463.98	3.16424
481351.50	3774463.98	2.93419	481401.50	3774463.98	2.69963
481451.50	3774463.98	2.50815	481501.50	3774463.98	2.34259
479301.50	3774513.98	1.13304	479351.50	3774513.98	1.21370
479401.50	3774513.98	1.30331	479451.50	3774513.98	1.40532
479501.50	3774513.98	1.51938	479551.50	3774513.98	1.65017
479601.50	3774513.98	1.79922	479651.50	3774513.98	1.97232
479701.50	3774513.98	2.17157	479751.50	3774513.98	2.40494
479801.50	3774513.98	2.68351	479851.50	3774513.98	3.01369
479901.50	3774513.98	3.41616	479951.50	3774513.98	3.90550
480001.50	3774513.98	4.51636	480051.50	3774513.98	5.28476
480101.50	3774513.98	6.26815	480151.50	3774513.98	7.55539
480201.50	3774513.98	9.24873	480251.50		

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3774513.98       11.49492
         480301.50    3774513.98       14.44594                       480351.50
3774513.98       18.08432
         480401.50    3774513.98       22.05056                       480451.50
3774513.98       25.46581
         480501.50    3774513.98       27.53552                       480551.50
3774513.98       28.06692
         480601.50    3774513.98       27.14630                       480651.50
3774513.98       24.91574
         480701.50    3774513.98       21.50469                       480751.50
3774513.98       17.50544
         480801.50    3774513.98       13.80954                       480851.50
3774513.98       10.89470
         480901.50    3774513.98        8.73521                       480951.50
3774513.98        7.16684
         481001.50    3774513.98        6.01186                       481051.50
3774513.98        5.12677
         481101.50    3774513.98        4.45725                       481151.50
3774513.98        3.91789
         481201.50    3774513.98        3.51550                       481251.50
3774513.98        3.18612
         481301.50    3774513.98        2.91708                       481351.50
3774513.98        2.67277
         481401.50    3774513.98        2.48218                       481451.50
3774513.98        2.29096
         481501.50    3774513.98        2.14665                       481551.50
3774513.98        1.99752
         479301.50    3774563.98        1.12069                       479351.50
3774563.98        1.19925
         479401.50    3774563.98        1.28651                       479451.50
3774563.98        1.38512
         479501.50    3774563.98        1.49524                       479551.50
3774563.98        1.62105
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:46:25

                                   PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITERU ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479601.50	3774563.98	1.76379	479651.50	3774563.98	1.92874
479701.50	3774563.98	2.11743	479751.50	3774563.98	2.33773
479801.50	3774563.98	2.59662	479851.50	3774563.98	2.90126
479901.50	3774563.98	3.26796	479951.50	3774563.98	3.70683
480001.50	3774563.98	4.24422	480051.50	3774563.98	4.90284
480101.50	3774563.98	5.72394	480151.50	3774563.98	6.74421
480201.50	3774563.98	8.01825	480251.50	3774563.98	9.59958
480301.50	3774563.98	11.48570	480351.50	3774563.98	13.60543
480401.50	3774563.98	15.72448	480451.50	3774563.98	17.49236
480501.50	3774563.98	18.59245	480551.50	3774563.98	18.87014
480601.50	3774563.98	18.34807	480651.50	3774563.98	17.06989
480701.50	3774563.98	15.20390	480751.50	3774563.98	13.03006
480801.50	3774563.98	10.90439	480851.50	3774563.98	9.04538
480901.50	3774563.98	7.52801	480951.50	3774563.98	6.33450
481001.50	3774563.98	5.39928	481051.50	3774563.98	4.66387
481101.50	3774563.98	4.08240	481151.50	3774563.98	3.61865
481201.50	3774563.98	3.23474	481251.50	3774563.98	2.92731
481301.50	3774563.98	2.67261	481351.50	3774563.98	2.44835
481401.50	3774563.98	2.26356	481451.50	3774563.98	2.10530
481501.50	3774563.98	1.95859	481551.50	3774563.98	1.83408

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         479301.50    3774613.98        1.10617                      479351.50
3774613.98        1.18170
         479401.50    3774613.98        1.26647                      479451.50
3774613.98        1.36076
         479501.50    3774613.98        1.46633                      479551.50
3774613.98        1.58662
         479601.50    3774613.98        1.72173                      479651.50
3774613.98        1.87736
         479701.50    3774613.98        2.05415                      479751.50
3774613.98        2.25999
         479801.50    3774613.98        2.49724                      479851.50
3774613.98        2.77613
         479901.50    3774613.98        3.10371                      479951.50
3774613.98        3.49124
         480001.50    3774613.98        3.95659                      480051.50
3774613.98        4.51122
         480101.50    3774613.98        5.18208                      480151.50
3774613.98        5.98330
         480201.50    3774613.98        6.93852                      480251.50
3774613.98        8.05377
         480301.50    3774613.98        9.30453                      480351.50
3774613.98       10.61759
         480401.50    3774613.98       11.86264                      480451.50
3774613.98       12.87046
         480501.50    3774613.98       13.49764                      480551.50
3774613.98       13.65531
         480601.50    3774613.98       13.33747                      480651.50
3774613.98       12.56513
         480701.50    3774613.98       11.46602                      480751.50
3774613.98       10.15987
         480801.50    3774613.98        8.83630                      480851.50
3774613.98        7.59293
         480901.50    3774613.98        6.51933                      480951.50
3774613.98        5.60467
         481001.50    3774613.98        4.86286                      481051.50
3774613.98        4.24776
         481101.50    3774613.98        3.74737                      481151.50
3774613.98        3.33441
         481201.50    3774613.98        2.99226                      481251.50
3774613.98        2.70654
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:46:25

                                    PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITERU ***
                                    INCLUDING SOURCE(S):     L0002111    , L0002112
```

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, L0002113    , L0002114    , L0002115    ,
                L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         481301.50    3774613.98        2.46612                      481351.50
3774613.98        2.26192
         481401.50    3774613.98        2.08694                      481451.50
3774613.98        1.93577
         481501.50    3774613.98        1.80423                      481551.50
3774613.98        1.68871
         479301.50    3774663.98        1.08867                      479351.50
3774663.98        1.16134
         479401.50    3774663.98        1.24277                      479451.50
3774663.98        1.33268
         479501.50    3774663.98        1.43376                      479551.50
3774663.98        1.54700
         479601.50    3774663.98        1.67469                      479651.50
3774663.98        1.81970
         479701.50    3774663.98        1.98379                      479751.50
3774663.98        2.17330
         479801.50    3774663.98        2.38937                      479851.50
3774663.98        2.64078
         479901.50    3774663.98        2.93097                      479951.50
3774663.98        3.26902
         480001.50    3774663.98        3.66682                      480051.50
3774663.98        4.13055
         480101.50    3774663.98        4.67263                      480151.50
3774663.98        5.29894
         480201.50    3774663.98        6.01786                      480251.50
3774663.98        6.81517
         480301.50    3774663.98        7.66935                      480351.50
3774663.98        8.52413
         480401.50    3774663.98        9.30498                      480451.50
3774663.98        9.92180
         480501.50    3774663.98       10.29526                      480551.50
3774663.98       10.39053
         480601.50    3774663.98       10.18190                      480651.50
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3774663.98 9.70427
480701.50 3774663.98 9.00773 480751.50
3774663.98 8.17956
480801.50 3774663.98 7.30416 480851.50
3774663.98 6.45066
480901.50 3774663.98 5.66006 480951.50
3774663.98 4.97328
481001.50 3774663.98 4.37647 481051.50
3774663.98 3.86538
481101.50 3774663.98 3.43865 481151.50
3774663.98 3.07793
481201.50 3774663.98 2.77660 481251.50
3774663.98 2.51539
481301.50 3774663.98 2.29824 481351.50
3774663.98 2.10694
481401.50 3774663.98 1.94117 481451.50
3774663.98 1.80162
481501.50 3774663.98 1.67632 481551.50
3774663.98 1.56830
479301.50 3774713.98 1.06886 479351.50
3774713.98 1.13864
479401.50 3774713.98 1.21616 479451.50
3774713.98 1.30142
479501.50 3774713.98 1.39738 479551.50
3774713.98 1.50341
479601.50 3774713.98 1.62351 479651.50
3774713.98 1.75733
479701.50 3774713.98 1.90951 479751.50
3774713.98 2.08138
479801.50 3774713.98 2.27697 479851.50
3774713.98 2.50099
479901.50 3774713.98 2.75601 479951.50
3774713.98 3.05049
480001.50 3774713.98 3.38579 480051.50
3774713.98 3.77050
480101.50 3774713.98 4.20755 480151.50
3774713.98 4.69944
480201.50 3774713.98 5.24124 480251.50
3774713.98 5.82370
480301.50 3774713.98 6.42155 480351.50
3774713.98 7.00094
480401.50 3774713.98 7.51329 480451.50
3774713.98 7.90867
480501.50 3774713.98 8.14793 480551.50
3774713.98 8.20316
480601.50 3774713.98 8.06413 480651.50
3774713.98 7.75317

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITERU ***

INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 , L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 , L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 , L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480701.50	3774713.98	7.29235	480751.50	3774713.98	6.74200
480801.50	3774713.98	6.14071	480851.50	3774713.98	5.53510
480901.50	3774713.98	4.94549	480951.50	3774713.98	4.41637
481001.50	3774713.98	3.94114	481051.50	3774713.98	3.51778
481101.50	3774713.98	3.16298	481151.50	3774713.98	2.84394
481201.50	3774713.98	2.58301	481251.50	3774713.98	2.34701
481301.50	3774713.98	2.15126	481351.50	3774713.98	1.97371
481401.50	3774713.98	1.81962	481451.50	3774713.98	1.69029
481501.50	3774713.98	1.57101	479301.50	3774763.98	1.04707
479351.50	3774763.98	1.11410	479401.50	3774763.98	1.18705
479451.50	3774763.98	1.26791	479501.50	3774763.98	1.35775
479551.50	3774763.98	1.45683	479601.50	3774763.98	1.56837
479651.50	3774763.98	1.69176	479701.50	3774763.98	1.83098

```
         479751.50    3774763.98        1.98676                    479801.50
3774763.98        2.16324
         479851.50    3774763.98        2.36073                    479901.50
3774763.98        2.58358
         479951.50    3774763.98        2.83686                    480001.50
3774763.98        3.11989
         480051.50    3774763.98        3.43877                    480101.50
3774763.98        3.79061
         480151.50    3774763.98        4.17717                    480201.50
3774763.98        4.59134
         480251.50    3774763.98        5.02234                    480301.50
3774763.98        5.45220
         480351.50    3774763.98        5.85671                    480401.50
3774763.98        6.20772
         480451.50    3774763.98        6.47292                    480501.50
3774763.98        6.63067
         480551.50    3774763.98        6.66097                    480601.50
3774763.98        6.56909
         480651.50    3774763.98        6.35254                    480701.50
3774763.98        6.04264
         480751.50    3774763.98        5.65735                    480801.50
3774763.98        5.23219
         480851.50    3774763.98        4.79528                    480901.50
3774763.98        4.35080
         480951.50    3774763.98        3.92796                    481001.50
3774763.98        3.55964
         481051.50    3774763.98        3.20587                    481101.50
3774763.98        2.90574
         481151.50    3774763.98        2.63527                    481201.50
3774763.98        2.39149
         481251.50    3774763.98        2.19094                    481301.50
3774763.98        2.01087
         481351.50    3774763.98        1.85077                    481401.50
3774763.98        1.71152
         481451.50    3774763.98        1.58895                    481501.50
3774763.98        1.47450
         479301.50    3774813.98        1.02361                    479351.50
3774813.98        1.08716
         479401.50    3774813.98        1.15603                    479451.50
3774813.98        1.23237
         479501.50    3774813.98        1.31603                    479551.50
3774813.98        1.40887
         479601.50    3774813.98        1.51119                    479651.50
3774813.98        1.62441
         479701.50    3774813.98        1.75126                    479751.50
3774813.98        1.89151
         479801.50    3774813.98        2.04901                    479851.50
3774813.98        2.22317
         479901.50    3774813.98        2.41769                    479951.50
3774813.98        2.63416
         480001.50    3774813.98        2.87257                    480051.50
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITERU ***
INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 ,
L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 ,
L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 ,
L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480201.50	3774813.98	4.04601	480251.50	3774813.98	4.37043
480301.50	3774813.98	4.68630	480351.50	3774813.98	4.97703
480401.50	3774813.98	5.22456	480451.50	3774813.98	5.40791
480501.50	3774813.98	5.51575	480551.50	3774813.98	5.53543
480601.50	3774813.98	5.46687	480651.50	3774813.98	5.31657
480701.50	3774813.98	5.09317	480751.50	3774813.98	4.82138
480801.50	3774813.98	4.51478	480851.50	3774813.98	4.17304
480901.50	3774813.98	3.85020	480951.50	3774813.98	3.51622
481001.50	3774813.98	3.19622	481051.50	3774813.98	2.91752
481101.50	3774813.98	2.66139	481151.50		

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3774813.98        2.42955
         481201.50    3774813.98        2.22975                   481251.50
3774813.98        2.04531
         481301.50    3774813.98        1.89014                   481351.50
3774813.98        1.74081
         481401.50    3774813.98        1.61238                   481451.50
3774813.98        1.49271
         481501.50    3774813.98        1.39194                   479301.50
3774863.98        0.99881
         479351.50    3774863.98        1.05882                   479401.50
3774863.98        1.12356
         479451.50    3774863.98        1.19522                   479501.50
3774863.98        1.27295
         479551.50    3774863.98        1.35912                   479601.50
3774863.98        1.45299
         479651.50    3774863.98        1.55641                   479701.50
3774863.98        1.67146
         479751.50    3774863.98        1.79729                   479801.50
3774863.98        1.93734
         479851.50    3774863.98        2.09040                   479901.50
3774863.98        2.25922
         479951.50    3774863.98        2.44443                   480001.50
3774863.98        2.64621
         480051.50    3774863.98        2.86337                   480101.50
3774863.98        3.09451
         480151.50    3774863.98        3.33788                   480201.50
3774863.98        3.58711
         480251.50    3774863.98        3.83514                   480301.50
3774863.98        4.07178
         480351.50    3774863.98        4.28573                   480401.50
3774863.98        4.46469
         480451.50    3774863.98        4.59596                   480501.50
3774863.98        4.67155
         480551.50    3774863.98        4.68450                   480601.50
3774863.98        4.63349
         480651.50    3774863.98        4.52466                   480701.50
3774863.98        4.34309
         480751.50    3774863.98        4.15551                   480801.50
3774863.98        3.93368
         480851.50    3774863.98        3.67574                   480901.50
3774863.98        3.42314
         480951.50    3774863.98        3.14995                   481001.50
3774863.98        2.90032
         481051.50    3774863.98        2.66063                   481101.50
3774863.98        2.44267
         481151.50    3774863.98        2.24495                   481201.50
3774863.98        2.07661
         481251.50    3774863.98        1.90999                   481301.50
3774863.98        1.76052
         481351.50    3774863.98        1.63102                   481401.50
3774863.98        1.51420
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITERU ***
INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 ,
L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 ,
L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 ,
L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479701.50	3774913.98	1.59270	479751.50	3774913.98	1.70536
479801.50	3774913.98	1.82956	479851.50	3774913.98	1.96379
479901.50	3774913.98	2.11010	479951.50	3774913.98	2.26851
480001.50	3774913.98	2.43861	480051.50	3774913.98	2.61882
480101.50	3774913.98	2.80752	480151.50	3774913.98	3.00297
480201.50	3774913.98	3.19895	480251.50	3774913.98	3.39146

480301.50 3774913.98 3.57186 480351.50
3774913.98 3.73256
480401.50 3774913.98 3.86425 480451.50
3774913.98 3.96132
480501.50 3774913.98 4.01470 480551.50
3774913.98 4.02459
480601.50 3774913.98 3.98636 480651.50
3774913.98 3.90319
480701.50 3774913.98 3.76814 480751.50
3774913.98 3.61992
480801.50 3774913.98 3.44876 480851.50
3774913.98 3.26148
480901.50 3774913.98 3.05294 480951.50
3774913.98 2.84331
481001.50 3774913.98 2.63859 481051.50
3774913.98 2.43411
481101.50 3774913.98 2.24024 481151.50
3774913.98 2.08416
481201.50 3774913.98 1.92224 481251.50
3774913.98 1.78534
481301.50 3774913.98 1.65657 481351.50
3774913.98 1.53612
481401.50 3774913.98 1.41895 481451.50
3774913.98 1.30998
481501.50 3774913.98 1.21491 479301.50
3774963.98 0.94640
479351.50 3774963.98 0.99940 479401.50
3774963.98 1.05608
479451.50 3774963.98 1.11824 479501.50
3774963.98 1.18496
479551.50 3774963.98 1.25812 479601.50
3774963.98 1.33679
479651.50 3774963.98 1.42228 479701.50
3774963.98 1.51595
479751.50 3774963.98 1.61699 479801.50
3774963.98 1.72655
479851.50 3774963.98 1.84414 479901.50
3774963.98 1.97088
479951.50 3774963.98 2.10645 480001.50
3774963.98 2.25011
480051.50 3774963.98 2.40018 480101.50
3774963.98 2.55502
480151.50 3774963.98 2.71310 480201.50
3774963.98 2.86920
480251.50 3774963.98 3.02038 480301.50
3774963.98 3.16007
480351.50 3774963.98 3.28297 480401.50
3774963.98 3.38253
480451.50 3774963.98 3.45522 480501.50
3774963.98 3.49457
480551.50 3774963.98 3.49945 480601.50

3774963.98 3.47224
  480651.50 3774963.98 3.40903 480701.50
3774963.98 3.30459
  480751.50 3774963.98 3.18227 480801.50
3774963.98 3.05907
  480851.50 3774963.98 2.91249 480901.50
3774963.98 2.73066
  480951.50 3774963.98 2.55657 481001.50
3774963.98 2.38310
  481051.50 3774963.98 2.21184 481101.50
3774963.98 2.06442
  481151.50 3774963.98 1.91632 481201.50
3774963.98 1.78597
  481251.50 3774963.98 1.65858 481301.50
3774963.98 1.54296
  481351.50 3774963.98 1.42890 481401.50
3774963.98 1.32277

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITERU ***
INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 ,
L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 ,
L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 ,
L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481451.50	3774963.98	1.22382	480801.50	3775013.98	2.72057
480851.50	3775013.98	2.59354	480901.50	3775013.98	2.45618
480951.50	3775013.98	2.31855	481001.50		

3775013.98 2.17412
481051.50 3775013.98 2.02944 481101.50
3775013.98 1.89394
481151.50 3775013.98 1.77682 481201.50
3775013.98 1.65407
481251.50 3775013.98 1.54082 481301.50
3775013.98 1.42743
481351.50 3775013.98 1.31969 481401.50
3775013.98 1.23051
481451.50 3775013.98 1.14088 480801.50
3775063.98 2.43374
480851.50 3775063.98 2.32877 480901.50
3775063.98 2.21552
480951.50 3775063.98 2.09648 481001.50
3775063.98 1.97850
481051.50 3775063.98 1.86113 481101.50
3775063.98 1.74851
481151.50 3775063.98 1.64098 481201.50
3775063.98 1.53820
481251.50 3775063.98 1.42354 481301.50
3775063.98 1.31701
481351.50 3775063.98 1.21467 481401.50
3775063.98 1.12128
481451.50 3775063.98 1.06134 480801.50
3775113.98 2.19378
480851.50 3775113.98 2.10172 480901.50
3775113.98 2.00196
480951.50 3775113.98 1.90576 481001.50
3775113.98 1.80797
481051.50 3775113.98 1.70543 481101.50
3775113.98 1.60616
481151.50 3775113.98 1.51132 481201.50
3775113.98 1.41156
481251.50 3775113.98 1.30794 481301.50
3775113.98 1.20705
481351.50 3775113.98 1.11856 481401.50
3775113.98 1.03932
481451.50 3775113.98 0.98292 480801.50
3775163.98 1.98859
480851.50 3775163.98 1.90816 480901.50
3775163.98 1.82035
480951.50 3775163.98 1.74074 481001.50
3775163.98 1.65432
481051.50 3775163.98 1.56538 481101.50
3775163.98 1.47860
481151.50 3775163.98 1.37746 481201.50
3775163.98 1.29197
481251.50 3775163.98 1.19347 481301.50
3775163.98 1.10693
481351.50 3775163.98 1.03276 481401.50
3775163.98 0.96405

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         481451.50    3775163.98        0.90701                      480801.50
3775213.98        1.80001
         480851.50    3775213.98        1.72819                      480901.50
3775213.98        1.65940
         480951.50    3775213.98        1.58855                      481001.50
3775213.98        1.51761
         481051.50    3775213.98        1.44533                      481101.50
3775213.98        1.35534
         481151.50    3775213.98        1.26593                      481201.50
3775213.98        1.18020
         481251.50    3775213.98        1.08481                      481301.50
3775213.98        1.01990
         481351.50    3775213.98        0.95682                      481401.50
3775213.98        0.88778
         481451.50    3775213.98        0.83203                      480801.50
3775263.98        1.63396
         480851.50    3775263.98        1.57602                      480901.50
3775263.98        1.51528
         480951.50    3775263.98        1.45309                      481001.50
3775263.98        1.39764
         481051.50    3775263.98        1.31755                      481101.50
3775263.98        1.23647
         481151.50    3775263.98        1.15376                      481201.50
3775263.98        1.06612
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITERU ***
                                  INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                 L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                 L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                 L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
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3775463.98   0.89651
         481101.50   3775463.98   0.84240   481151.50
3775463.98   0.80428
         481201.50   3775463.98   0.75604   481251.50
3775463.98   0.72295
         481301.50   3775463.98   0.69186   481351.50
3775463.98   0.66454
         481401.50   3775463.98   0.62658   480801.50
3775513.98   1.06941
         480851.50   3775513.98   1.01021   480901.50
3775513.98   0.94273
         480951.50   3775513.98   0.90390   481001.50
3775513.98   0.84651
         481051.50   3775513.98   0.81211   481101.50
3775513.98   0.77883
         481151.50   3775513.98   0.73284   481201.50
3775513.98   0.70296
         481251.50   3775513.98   0.66771   481301.50
3775513.98   0.64849
         481351.50   3775513.98   0.62283   481401.50
3775513.98   0.58543
         480801.50   3775563.98   0.96136   480851.50
3775563.98   0.91789
         480901.50   3775563.98   0.86696   480951.50
3775563.98   0.82504
         481001.50   3775563.98   0.78316   481051.50
3775563.98   0.75146
         481101.50   3775563.98   0.71298   481151.50
3775563.98   0.68351
         481201.50   3775563.98   0.65087   481251.50
3775563.98   0.62221

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITERU ***
                                  INCLUDING SOURCE(S):   L0002111   , L0002112
, L0002113   , L0002114   , L0002115   ,
                 L0002116   , L0002117   , L0002118   , L0002119   , L0002120
, L0002121   , L0002122   , L0002123   ,
                 L0002124   , L0002125   , L0002126   , L0002127   , L0002128
, L0002129   , L0002130   , L0002131   ,
                 L0002132   , L0002133   , L0002134   , L0002135   , L0002136
, L0002137   , L0002138   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3775563.98	0.59944	481351.50	3775563.98	0.56819
481401.50	3775563.98	0.53955	479332.46	3774240.22	1.19873
479382.46	3774240.22	1.28763	479432.46	3774240.22	1.38890
479482.46	3774240.22	1.50237	479532.46	3774240.22	1.63338
479582.46	3774240.22	1.78214	479632.46	3774240.22	1.95516
479682.46	3774240.22	2.15760	479732.46	3774240.22	2.39489
479782.46	3774240.22	2.68094	479832.46	3774240.22	3.02333
479882.46	3774240.22	3.44314	479932.46	3774240.22	3.96701
479332.46	3774290.22	1.20320	479382.46	3774290.22	1.29399
479432.46	3774290.22	1.39511	479482.46	3774290.22	1.50985
479532.46	3774290.22	1.64227	479582.46	3774290.22	1.79292
479632.46	3774290.22	1.96954	479682.46	3774290.22	2.17401
479732.46	3774290.22	2.41581	479782.46	3774290.22	2.70713
479832.46	3774290.22	3.05775	479882.46	3774290.22	3.48895
479932.46	3774290.22	4.03246	479332.46	3774340.22	1.20409
479382.46	3774340.22	1.29503	479432.46	3774340.22	1.39634
479482.46	3774340.22	1.51186	479532.46	3774340.22	1.64404
479582.46	3774340.22	1.79506	479632.46	3774340.22	1.97214
479682.46	3774340.22	2.17737	479732.46	3774340.22	2.42200
479782.46	3774340.22	2.71200	479832.46	3774340.22	3.06410
479882.46	3774340.22	3.49978	479932.46	3774340.22	4.04576

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         479332.46    3774390.22        1.20193                       479382.46
3774390.22        1.29195
         479432.46    3774390.22        1.39269                       479482.46
3774390.22        1.50830
         479532.46    3774390.22        1.63875                       479582.46
3774390.22        1.78991
         479632.46    3774390.22        1.96412                       479682.46
3774390.22        2.16928
         479732.46    3774390.22        2.40923                       479782.46
3774390.22        2.69560
         479832.46    3774390.22        3.04360                       479882.46
3774390.22        3.47098
         479932.46    3774390.22        4.00503

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:46:25

                                    PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                    INCLUDING SOURCE(S):     L0002957    , L0002958
, L0002959    , L0002960    , L0002961    ,
                   L0002962    , L0002963    , L0002964    , L0002965    , L0002966
, L0002967    , L0002968    , L0002969    ,
                   L0002970    , L0002971    , L0002972    , L0002973    , L0002974
, L0002975    , L0002976    , L0002977    ,
                   L0002978    , L0002979    , L0002980    , L0002981    , L0002982
, L0002983    , L0002984    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         480415.97    3774200.25       17.92949                       480386.35
3774201.62       10.91153
         480364.52    3774200.25        8.18768                       480441.34
3774196.20       22.22874
         480332.65    3774203.34        6.19488                       480281.98
3774208.10        4.55832
         480259.39    3774210.95        4.09805                       480179.23
3774215.23        3.02740
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         479777.13    3774155.68        1.26019                    479903.88
3774153.05        1.56268
         479888.73    3774072.72        1.50131                    480286.74
3774147.78        4.45652
         480415.64    3774088.13        6.88269                    480408.03
3774009.17        5.20835
         480445.38    3774004.65        5.75640                    480447.28
3774028.67        6.23819
         480276.83    3774266.75        4.35798                    480151.33
3774266.75        2.74867
         480135.30    3774266.75        2.62480                    479301.50
3774413.98        0.67843
         479351.50    3774413.98        0.71470                    479401.50
3774413.98        0.75362
         479451.50    3774413.98        0.79650                    479501.50
3774413.98        0.84378
         479551.50    3774413.98        0.89540                    479601.50
3774413.98        0.95349
         479651.50    3774413.98        1.01719                    479701.50
3774413.98        1.08938
         479751.50    3774413.98        1.16946                    479801.50
3774413.98        1.26007
         479851.50    3774413.98        1.36460                    479901.50
3774413.98        1.48326
         479951.50    3774413.98        1.62208                    480001.50
3774413.98        1.78263
         480051.50    3774413.98        1.97362                    480101.50
3774413.98        2.20201
         480151.50    3774413.98        2.47821                    480201.50
3774413.98        2.82009
         480251.50    3774413.98        3.24233                    480301.50
3774413.98        3.77412
         480351.50    3774413.98        4.43007                    480401.50
3774413.98        5.21453
         480451.50    3774413.98        6.11077                    480501.50
3774413.98        7.10476
         480551.50    3774413.98        8.25795                    480601.50
3774413.98        9.73483
         480651.50    3774413.98       11.84306                    480701.50
3774413.98       15.00341
         480751.50    3774413.98       16.84301                    480801.50
3774413.98       14.16160
         480851.50    3774413.98       11.73464                    480901.50
3774413.98       10.25454
         480951.50    3774413.98        9.33874                    481001.50
3774413.98        8.73421
         481051.50    3774413.98        8.31094                    481101.50
3774413.98        7.99425
         481151.50    3774413.98        7.74630                    481201.50
3774413.98        7.53564
         481251.50    3774413.98        7.40950                    481301.50
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3774413.98 7.21855
 481351.50 3774413.98 7.01162 481401.50
3774413.98 6.76925
 481451.50 3774413.98 6.48616 479301.50
3774463.98 0.67283
 479351.50 3774463.98 0.70838 479401.50
3774463.98 0.74647
 479451.50 3774463.98 0.78876 479501.50
3774463.98 0.83445
 479551.50 3774463.98 0.88524 479601.50
3774463.98 0.94106
 479651.50 3774463.98 1.00271 479701.50
3774463.98 1.07235
 479751.50 3774463.98 1.14929 479801.50
3774463.98 1.23709
 479851.50 3774463.98 1.33544 479901.50
3774463.98 1.44805
 479951.50 3774463.98 1.57779 480001.50
3774463.98 1.72685
 480051.50 3774463.98 1.90295 480101.50
3774463.98 2.10801

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0002957 , L0002958 , L0002959 , L0002960 , L0002961 ,
L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 , L0002968 , L0002969 ,
L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 , L0002976 , L0002977 ,
L0002978 , L0002979 , L0002980 , L0002981 , L0002982 , L0002983 , L0002984 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480151.50	3774463.98	2.35343	480201.50		

3774463.98 2.64569
480251.50 3774463.98 2.99570 480301.50
3774463.98 3.41849
480351.50 3774463.98 3.91425 480401.50
3774463.98 4.49212
480451.50 3774463.98 5.13719 480501.50
3774463.98 5.85724
480551.50 3774463.98 6.67059 480601.50
3774463.98 7.61278
480651.50 3774463.98 8.68822 480701.50
3774463.98 9.73500
480751.50 3774463.98 10.17741 480801.50
3774463.98 9.71165
480851.50 3774463.98 8.92072 480901.50
3774463.98 8.21967
480951.50 3774463.98 7.68599 481001.50
3774463.98 7.28540
481051.50 3774463.98 6.97840 481101.50
3774463.98 6.73260
481151.50 3774463.98 6.52748 481201.50
3774463.98 6.34413
481251.50 3774463.98 6.20458 481301.50
3774463.98 6.02763
481351.50 3774463.98 5.83813 481401.50
3774463.98 5.62364
481451.50 3774463.98 5.38494 481501.50
3774463.98 5.10517
479301.50 3774513.98 0.66650 479351.50
3774513.98 0.70098
479401.50 3774513.98 0.73810 479451.50
3774513.98 0.77927
479501.50 3774513.98 0.82358 479551.50
3774513.98 0.87279
479601.50 3774513.98 0.92663 479651.50
3774513.98 0.98682
479701.50 3774513.98 1.05270 479751.50
3774513.98 1.12613
479801.50 3774513.98 1.20959 479851.50
3774513.98 1.30233
479901.50 3774513.98 1.40874 479951.50
3774513.98 1.52841
480001.50 3774513.98 1.66671 480051.50
3774513.98 1.82530
480101.50 3774513.98 2.00851 480151.50
3774513.98 2.22383
480201.50 3774513.98 2.47324 480251.50
3774513.98 2.76391
480301.50 3774513.98 3.10427 480351.50
3774513.98 3.49067
480401.50 3774513.98 3.93024 480451.50
3774513.98 4.41164

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         480501.50    3774513.98        4.94162                      480551.50
3774513.98        5.50888
         480601.50    3774513.98        6.11517                      480651.50
3774513.98        6.71405
         480701.50    3774513.98        7.20581                      480751.50
3774513.98        7.43235
         480801.50    3774513.98        7.34148                      480851.50
3774513.98        7.05610
         480901.50    3774513.98        6.72182                      480951.50
3774513.98        6.41686
         481001.50    3774513.98        6.15612                      481051.50
3774513.98        5.93792
         481101.50    3774513.98        5.75006                      481151.50
3774513.98        5.58298
         481201.50    3774513.98        5.42669                      481251.50
3774513.98        5.28253
         481301.50    3774513.98        5.11912                      481351.50
3774513.98        4.95703
         481401.50    3774513.98        4.76567                      481451.50
3774513.98        4.56460
         481501.50    3774513.98        4.33449                      481551.50
3774513.98        4.09618
         479301.50    3774563.98        0.65902                      479351.50
3774563.98        0.69257
         479401.50    3774563.98        0.72872                      479451.50
3774563.98        0.76848
         479501.50    3774563.98        0.81130                      479551.50
3774563.98        0.85872
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0002957    , L0002958
, L0002959    , L0002960    , L0002961    ,
                  L0002962    , L0002963    , L0002964    , L0002965    , L0002966
, L0002967    , L0002968    , L0002969    ,
                  L0002970    , L0002971    , L0002972    , L0002973    , L0002974
, L0002975    , L0002976    , L0002977    ,
                  L0002978    , L0002979    , L0002980    , L0002981    , L0002982
, L0002983    , L0002984    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479601.50	3774563.98	0.91043	479651.50	3774563.98	0.96804
479701.50	3774563.98	1.03083	479751.50	3774563.98	1.10090
479801.50	3774563.98	1.17923	479851.50	3774563.98	1.26616
479901.50	3774563.98	1.36517	479951.50	3774563.98	1.47552
480001.50	3774563.98	1.60183	480051.50	3774563.98	1.74460
480101.50	3774563.98	1.90908	480151.50	3774563.98	2.09519
480201.50	3774563.98	2.30787	480251.50	3774563.98	2.55285
480301.50	3774563.98	2.82726	480351.50	3774563.98	3.13582
480401.50	3774563.98	3.47550	480451.50	3774563.98	3.84220
480501.50	3774563.98	4.23431	480551.50	3774563.98	4.64190
480601.50	3774563.98	5.04505	480651.50	3774563.98	5.41804
480701.50	3774563.98	5.70862	480751.50	3774563.98	5.86464
480801.50	3774563.98	5.87249	480851.50	3774563.98	5.76858
480901.50	3774563.98	5.60813	480951.50	3774563.98	5.43379
481001.50	3774563.98	5.26570	481051.50	3774563.98	5.11085
481101.50	3774563.98	4.96713	481151.50	3774563.98	4.83123
481201.50	3774563.98	4.69294	481251.50	3774563.98	4.56034
481301.50	3774563.98	4.41277	481351.50	3774563.98	4.26887
481401.50	3774563.98	4.10972	481451.50	3774563.98	3.92475
481501.50	3774563.98	3.74905	481551.50	3774563.98	3.54543
479301.50	3774613.98	0.65102	479351.50	3774613.98	0.68323
479401.50	3774613.98	0.71853	479451.50	3774613.98	0.75657
479501.50	3774613.98	0.79781	479551.50		

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3774613.98        0.84346
         479601.50    3774613.98        0.89271                        479651.50
3774613.98        0.94760
         479701.50    3774613.98        1.00713                        479751.50
3774613.98        1.07380
         479801.50    3774613.98        1.14675                        479851.50
3774613.98        1.22854
         479901.50    3774613.98        1.31935                        479951.50
3774613.98        1.42057
         480001.50    3774613.98        1.53544                        480051.50
3774613.98        1.66312
         480101.50    3774613.98        1.80857                        480151.50
3774613.98        1.97044
         480201.50    3774613.98        2.15290                        480251.50
3774613.98        2.35743
         480301.50    3774613.98        2.58423                        480351.50
3774613.98        2.83197
         480401.50    3774613.98        3.09866                        480451.50
3774613.98        3.38395
         480501.50    3774613.98        3.67827                        480551.50
3774613.98        3.97515
         480601.50    3774613.98        4.25869                        480651.50
3774613.98        4.51336
         480701.50    3774613.98        4.70962                        480751.50
3774613.98        4.82948
         480801.50    3774613.98        4.86761                        480851.50
3774613.98        4.83643
         480901.50    3774613.98        4.76109                        480951.50
3774613.98        4.66087
         481001.50    3774613.98        4.55294                        481051.50
3774613.98        4.44194
         481101.50    3774613.98        4.33283                        481151.50
3774613.98        4.22412
         481201.50    3774613.98        4.09282                        481251.50
3774613.98        3.97354
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0002957    , L0002958
, L0002959    , L0002960    , L0002961    ,
                 L0002962    , L0002963    , L0002964    , L0002965    , L0002966
, L0002967    , L0002968    , L0002969    ,
                 L0002970    , L0002971    , L0002972    , L0002973    , L0002974
, L0002975    , L0002976    , L0002977    ,
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L0002978 , L0002979 , L0002980 , L0002981 , L0002982
, L0002983 , L0002984 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3774613.98	3.85505	481351.50	3774613.98	3.72154
481401.50	3774613.98	3.57986	481451.50	3774613.98	3.43435
481501.50	3774613.98	3.27248	481551.50	3774613.98	3.10962
479301.50	3774663.98	0.64196	479351.50	3774663.98	0.67308
479401.50	3774663.98	0.70719	479451.50	3774663.98	0.74367
479501.50	3774663.98	0.78359	479551.50	3774663.98	0.82686
479601.50	3774663.98	0.87404	479651.50	3774663.98	0.92581
479701.50	3774663.98	0.98201	479751.50	3774663.98	1.04469
479801.50	3774663.98	1.11279	479851.50	3774663.98	1.18887
479901.50	3774663.98	1.27225	479951.50	3774663.98	1.36463
480001.50	3774663.98	1.46847	480051.50	3774663.98	1.58311
480101.50	3774663.98	1.71086	480151.50	3774663.98	1.85158
480201.50	3774663.98	2.00890	480251.50	3774663.98	2.18000
480301.50	3774663.98	2.36816	480351.50	3774663.98	2.56882
480401.50	3774663.98	2.78297	480451.50	3774663.98	3.00539
480501.50	3774663.98	3.23266	480551.50	3774663.98	3.45438
480601.50	3774663.98	3.66411	480651.50	3774663.98	3.84737
480701.50	3774663.98	3.99223	480751.50	3774663.98	4.08849
480801.50	3774663.98	4.13430	480851.50	3774663.98	4.13509

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         480901.50    3774663.98        4.10107                        480951.50
3774663.98        4.04479
         481001.50    3774663.98        3.97385                        481051.50
3774663.98        3.89419
         481101.50    3774663.98        3.81050                        481151.50
3774663.98        3.69649
         481201.50    3774663.98        3.60613                        481251.50
3774663.98        3.49910
         481301.50    3774663.98        3.39731                        481351.50
3774663.98        3.28481
         481401.50    3774663.98        3.15872                        481451.50
3774663.98        3.03582
         481501.50    3774663.98        2.89617                        481551.50
3774663.98        2.75573
         479301.50    3774713.98        0.63219                        479351.50
3774713.98        0.66232
         479401.50    3774713.98        0.69503                        479451.50
3774713.98        0.72993
         479501.50    3774713.98        0.76832                        479551.50
3774713.98        0.80928
         479601.50    3774713.98        0.85450                        479651.50
3774713.98        0.90297
         479701.50    3774713.98        0.95643                        479751.50
3774713.98        1.01449
         479801.50    3774713.98        1.07810                        479851.50
3774713.98        1.14828
         479901.50    3774713.98        1.22467                        479951.50
3774713.98        1.30980
         480001.50    3774713.98        1.40231                        480051.50
3774713.98        1.50473
         480101.50    3774713.98        1.61713                        480151.50
3774713.98        1.74060
         480201.50    3774713.98        1.87456                        480251.50
3774713.98        2.02072
         480301.50    3774713.98        2.17599                        480351.50
3774713.98        2.34127
         480401.50    3774713.98        2.51426                        480451.50
3774713.98        2.69168
         480501.50    3774713.98        2.86843                        480551.50
3774713.98        3.03973
         480601.50    3774713.98        3.19930                        480651.50
3774713.98        3.33810
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                       ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:46:25

                                  PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: OFFSITE ***
                                  INCLUDING SOURCE(S):   L0002957   , L0002958
, L0002959   , L0002960   , L0002961   ,
                  L0002962   , L0002963   , L0002964   , L0002965   , L0002966
, L0002967   , L0002968   , L0002969   ,
                  L0002970   , L0002971   , L0002972   , L0002973   , L0002974
, L0002975   , L0002976   , L0002977   ,
                  L0002978   , L0002979   , L0002980   , L0002981   , L0002982
, L0002983   , L0002984   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         480701.50   3774713.98   3.45000   480751.50
3774713.98   3.52944
         480801.50   3774713.98   3.57512   480851.50
3774713.98   3.58955
         480901.50   3774713.98   3.57717   480951.50
3774713.98   3.54534
         481001.50   3774713.98   3.49877   481051.50
3774713.98   3.44097
         481101.50   3774713.98   3.35466   481151.50
3774713.98   3.27486
         481201.50   3774713.98   3.19633   481251.50
3774713.98   3.11009
         481301.50   3774713.98   3.02009   481351.50
3774713.98   2.91805
         481401.50   3774713.98   2.81284   481451.50
3774713.98   2.70725
         481501.50   3774713.98   2.58070   479301.50
3774763.98   0.62183
         479351.50   3774763.98   0.65115   479401.50
3774763.98   0.68213
         479451.50   3774763.98   0.71570   479501.50
3774763.98   0.75207
         479551.50   3774763.98   0.79096   479601.50
3774763.98   0.83374
         479651.50   3774763.98   0.87940   479701.50
3774763.98   0.92952
         479751.50   3774763.98   0.98369   479801.50
3774763.98   1.04328
         479851.50   3774763.98   1.10737   479901.50
3774763.98   1.17725
         479951.50   3774763.98   1.25454   480001.50

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3774763.98        1.33774
         480051.50    3774763.98        1.42952                    480101.50
3774763.98        1.52805
         480151.50    3774763.98        1.63563                    480201.50
3774763.98        1.75138
         480251.50    3774763.98        1.87514                    480301.50
3774763.98        2.00533
         480351.50    3774763.98        2.14292                    480401.50
3774763.98        2.28349
         480451.50    3774763.98        2.42661                    480501.50
3774763.98        2.56740
         480551.50    3774763.98        2.70322                    480601.50
3774763.98        2.82741
         480651.50    3774763.98        2.93659                    480701.50
3774763.98        3.02567
         480751.50    3774763.98        3.09193                    480801.50
3774763.98        3.13447
         480851.50    3774763.98        3.15438                    480901.50
3774763.98        3.15353
         480951.50    3774763.98        3.13514                    481001.50
3774763.98        3.10541
         481051.50    3774763.98        3.06265                    481101.50
3774763.98        2.98818
         481151.50    3774763.98        2.92148                    481201.50
3774763.98        2.84872
         481251.50    3774763.98        2.77504                    481301.50
3774763.98        2.69988
         481351.50    3774763.98        2.61102                    481401.50
3774763.98        2.51851
         481451.50    3774763.98        2.42338                    481501.50
3774763.98        2.31631
         479301.50    3774813.98        0.61098                    479351.50
3774813.98        0.63908
         479401.50    3774813.98        0.66870                    479451.50
3774813.98        0.70091
         479501.50    3774813.98        0.73526                    479551.50
3774813.98        0.77253
         479601.50    3774813.98        0.81245                    479651.50
3774813.98        0.85536
         479701.50    3774813.98        0.90235                    479751.50
3774813.98        0.95262
         479801.50    3774813.98        1.00777                    479851.50
3774813.98        1.06669
         479901.50    3774813.98        1.13086                    479951.50
3774813.98        1.20055
         480001.50    3774813.98        1.27531                    480051.50
3774813.98        1.35707
         480101.50    3774813.98        1.44395                    480151.50
3774813.98        1.53788
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***         04/13/23
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0002957 , L0002958 , L0002959 , L0002960 , L0002961 ,
L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 , L0002968 , L0002969 ,
L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 , L0002976 , L0002977 ,
L0002978 , L0002979 , L0002980 , L0002981 , L0002982 , L0002983 , L0002984 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480201.50	3774813.98	1.63788	480251.50	3774813.98	1.74354
480301.50	3774813.98	1.85344	480351.50	3774813.98	1.96840
480401.50	3774813.98	2.08445	480451.50	3774813.98	2.20166
480501.50	3774813.98	2.31557	480551.50	3774813.98	2.42450
480601.50	3774813.98	2.52429	480651.50	3774813.98	2.61177
480701.50	3774813.98	2.68431	480751.50	3774813.98	2.74028
480801.50	3774813.98	2.77873	480851.50	3774813.98	2.79932
480901.50	3774813.98	2.80514	480951.50	3774813.98	2.79550
481001.50	3774813.98	2.77309	481051.50	3774813.98	2.71717
481101.50	3774813.98	2.67387	481151.50	3774813.98	2.61660
481201.50	3774813.98	2.56530	481251.50	3774813.98	2.49688
481301.50	3774813.98	2.43196	481351.50	3774813.98	2.35466

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         481401.50    3774813.98        2.27259                    481451.50
3774813.98        2.17780
         481501.50    3774813.98        2.09535                    479301.50
3774863.98        0.59970
         479351.50    3774863.98        0.62658                    479401.50
3774863.98        0.65484
         479451.50    3774863.98        0.68560                    479501.50
3774863.98        0.71807
         479551.50    3774863.98        0.75342                    479601.50
3774863.98        0.79083
         479651.50    3774863.98        0.83107                    479701.50
3774863.98        0.87499
         479751.50    3774863.98        0.92159                    479801.50
3774863.98        0.97253
         479851.50    3774863.98        1.02661                    479901.50
3774863.98        1.08512
         479951.50    3774863.98        1.14822                    480001.50
3774863.98        1.21605
         480051.50    3774863.98        1.28824                    480101.50
3774863.98        1.36496
         480151.50    3774863.98        1.44716                    480201.50
3774863.98        1.53374
         480251.50    3774863.98        1.62453                    480301.50
3774863.98        1.71791
         480351.50    3774863.98        1.81470                    480401.50
3774863.98        1.91172
         480451.50    3774863.98        2.00840                    480501.50
3774863.98        2.10205
         480551.50    3774863.98        2.19094                    480601.50
3774863.98        2.27235
         480651.50    3774863.98        2.34396                    480701.50
3774863.98        2.40324
         480751.50    3774863.98        2.45132                    480801.50
3774863.98        2.48572
         480851.50    3774863.98        2.50611                    480901.50
3774863.98        2.51439
         480951.50    3774863.98        2.50923                    481001.50
3774863.98        2.47495
         481051.50    3774863.98        2.44345                    481101.50
3774863.98        2.40317
         481151.50    3774863.98        2.36115                    481201.50
3774863.98        2.31604
         481251.50    3774863.98        2.25466                    481301.50
3774863.98        2.19176
         481351.50    3774863.98        2.12429                    481401.50
3774863.98        2.04832
         481451.50    3774863.98        1.96937                    481501.50
3774863.98        1.88745
         479301.50    3774913.98        0.58810                    479351.50
3774913.98        0.61376
         479401.50    3774913.98        0.64066                    479451.50
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3774913.98        0.66987
         479501.50    3774913.98        0.70059                      479551.50
3774913.98        0.73393
         479601.50    3774913.98        0.76908                      479651.50
3774913.98        0.80673
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0002957    , L0002958
, L0002959    , L0002960    , L0002961    ,
                L0002962    , L0002963    , L0002964    , L0002965    , L0002966
, L0002967    , L0002968    , L0002969    ,
                L0002970    , L0002971    , L0002972    , L0002973    , L0002974
, L0002975    , L0002976    , L0002977    ,
                L0002978    , L0002979    , L0002980    , L0002981    , L0002982
, L0002983    , L0002984    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         479701.50    3774913.98        0.84764                      479751.50
3774913.98        0.89085
         479801.50    3774913.98        0.93783                      479851.50
3774913.98        0.98740
         479901.50    3774913.98        1.04071                      479951.50
3774913.98        1.09782
         480001.50    3774913.98        1.15877                      480051.50
3774913.98        1.22315
         480101.50    3774913.98        1.29106                      480151.50
3774913.98        1.36339
         480201.50    3774913.98        1.43818                      480251.50
3774913.98        1.51679
         480301.50    3774913.98        1.59662                      480351.50
3774913.98        1.67875
         480401.50    3774913.98        1.76097                      480451.50
3774913.98        1.84121
         480501.50    3774913.98        1.91943                      480551.50
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3774913.98 1.99266
480601.50 3774913.98 2.06008 480651.50
3774913.98 2.11956
480701.50 3774913.98 2.16935 480751.50
3774913.98 2.20999
480801.50 3774913.98 2.24022 480851.50
3774913.98 2.25993
480901.50 3774913.98 2.26855 480951.50
3774913.98 2.26742
481001.50 3774913.98 2.23960 481051.50
3774913.98 2.21229
481101.50 3774913.98 2.17270 481151.50
3774913.98 2.14100
481201.50 3774913.98 2.09610 481251.50
3774913.98 2.04904
481301.50 3774913.98 1.99606 481351.50
3774913.98 1.93368
481401.50 3774913.98 1.85927 481451.50
3774913.98 1.77946
481501.50 3774913.98 1.70233 479301.50
3774963.98 0.57625
479351.50 3774963.98 0.60071 479401.50
3774963.98 0.62627
479451.50 3774963.98 0.65395 479501.50
3774963.98 0.68297
479551.50 3774963.98 0.71437 479601.50
3774963.98 0.74733
479651.50 3774963.98 0.78251 479701.50
3774963.98 0.82058
479751.50 3774963.98 0.86082 479801.50
3774963.98 0.90385
479851.50 3774963.98 0.94926 479901.50
3774963.98 0.99781
479951.50 3774963.98 1.04951 480001.50
3774963.98 1.10433
480051.50 3774963.98 1.16181 480101.50
3774963.98 1.22199
480151.50 3774963.98 1.28567 480201.50
3774963.98 1.35095
480251.50 3774963.98 1.41910 480301.50
3774963.98 1.48777
480351.50 3774963.98 1.55794 480401.50
3774963.98 1.62774
480451.50 3774963.98 1.69543 480501.50
3774963.98 1.76119
480551.50 3774963.98 1.82279 480601.50
3774963.98 1.87902
480651.50 3774963.98 1.92904 480701.50
3774963.98 1.97122
480751.50 3774963.98 2.00550 480801.50
3774963.98 2.03267

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0002957 , L0002958 , L0002959 , L0002960 , L0002961 ,
L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 , L0002968 , L0002969 ,
L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 , L0002976 , L0002977 ,
L0002978 , L0002979 , L0002980 , L0002981 , L0002982 , L0002983 , L0002984 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481451.50	3774963.98	1.61487	480801.50	3775013.98	1.85397
480851.50	3775013.98	1.86933	480901.50	3775013.98	1.87736
480951.50	3775013.98	1.85968	481001.50	3775013.98	1.84363
481051.50	3775013.98	1.82099	481101.50	3775013.98	1.79738
481151.50	3775013.98	1.77157	481201.50	3775013.98	1.73419

```
         481251.50    3775013.98        1.68841                    481301.50
3775013.98        1.63527
         481351.50    3775013.98        1.57952                    481401.50
3775013.98        1.52830
         481451.50    3775013.98        1.46770                    480801.50
3775063.98        1.69913
         480851.50    3775063.98        1.71257                    480901.50
3775063.98        1.70124
         480951.50    3775063.98        1.69304                    481001.50
3775063.98        1.68440
         481051.50    3775063.98        1.66603                    481101.50
3775063.98        1.64403
         481151.50    3775063.98        1.62134                    481201.50
3775063.98        1.59025
         481251.50    3775063.98        1.53827                    481301.50
3775063.98        1.48584
         481351.50    3775063.98        1.42956                    481401.50
3775063.98        1.37174
         481451.50    3775063.98        1.33668                    480801.50
3775113.98        1.56442
         480851.50    3775113.98        1.55885                    480901.50
3775113.98        1.55504
         480951.50    3775113.98        1.55279                    481001.50
3775113.98        1.54204
         481051.50    3775113.98        1.52468                    481101.50
3775113.98        1.50355
         481151.50    3775113.98        1.47633                    481201.50
3775113.98        1.44233
         481251.50    3775113.98        1.39617                    481301.50
3775113.98        1.34508
         481351.50    3775113.98        1.29785                    481401.50
3775113.98        1.24728
         481451.50    3775113.98        1.21480                    480801.50
3775163.98        1.43420
         480851.50    3775163.98        1.43429                    480901.50
3775163.98        1.43197
         480951.50    3775163.98        1.42696                    481001.50
3775163.98        1.41585
         481051.50    3775163.98        1.39952                    481101.50
3775163.98        1.37565
         481151.50    3775163.98        1.33947                    481201.50
3775163.98        1.31066
         481251.50    3775163.98        1.26373                    481301.50
3775163.98        1.22066
         481351.50    3775163.98        1.18049                    481401.50
3775163.98        1.13797
         481451.50    3775163.98        1.10006                    480801.50
3775213.98        1.32393
         480851.50    3775213.98        1.32217                    480901.50
3775213.98        1.31916
         480951.50    3775213.98        1.31302                    481001.50
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3775213.98 1.30662
  481051.50 3775213.98 1.29332 481101.50
3775213.98 1.26189
  481151.50 3775213.98 1.22543 481201.50
3775213.98 1.19330
  481251.50 3775213.98 1.14324 481301.50
3775213.98 1.11330
  481351.50 3775213.98 1.07903 481401.50
3775213.98 1.03024
  481451.50 3775213.98 0.98951 480801.50
3775263.98 1.22300
  480851.50 3775263.98 1.22212 480901.50
3775263.98 1.21815
  480951.50 3775263.98 1.21126 481001.50
3775263.98 1.20768
  481051.50 3775263.98 1.18130 481101.50
3775263.98 1.15283
  481151.50 3775263.98 1.11987 481201.50
3775263.98 1.07756

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0002957 , L0002958 , L0002959 , L0002960 , L0002961 ,
L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 , L0002968 , L0002969 ,
L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 , L0002976 , L0002977 ,
L0002978 , L0002979 , L0002980 , L0002981 , L0002982 , L0002983 , L0002984 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481251.50	3775263.98	1.04438	481301.50	3775263.98	1.01335
481351.50	3775263.98	0.97092	481401.50		

3775263.98 0.94174
481451.50 3775263.98 0.91188 480801.50 3775313.98 1.13775
480851.50 3775313.98 1.13568 480901.50 3775313.98 1.12809
480951.50 3775313.98 1.11732 481001.50 3775313.98 1.09617
481051.50 3775313.98 1.08074 481101.50 3775313.98 1.05017
481151.50 3775313.98 1.01534 481201.50 3775313.98 0.98787
481251.50 3775313.98 0.94828 481301.50 3775313.98 0.92169
481351.50 3775313.98 0.87927 481401.50 3775313.98 0.84950
480801.50 3775363.98 1.05893 480851.50 3775363.98 1.05483
480901.50 3775363.98 1.04684 480951.50 3775363.98 1.02471
481001.50 3775363.98 1.01005 481051.50 3775363.98 0.99047
481101.50 3775363.98 0.95603 481151.50 3775363.98 0.93544
481201.50 3775363.98 0.90889 481251.50 3775363.98 0.87322
481301.50 3775363.98 0.83331 481351.50 3775363.98 0.80932
481401.50 3775363.98 0.77544 480801.50 3775413.98 0.98610
480851.50 3775413.98 0.98297 480901.50 3775413.98 0.96758
480951.50 3775413.98 0.94417 481001.50 3775413.98 0.91703
481051.50 3775413.98 0.89802 481101.50 3775413.98 0.87875
481151.50 3775413.98 0.84741 481201.50 3775413.98 0.82650
481251.50 3775413.98 0.79835 481301.50 3775413.98 0.78227
481351.50 3775413.98 0.74430 481401.50 3775413.98 0.71509
480801.50 3775463.98 0.92151 480851.50 3775463.98 0.90311
480901.50 3775463.98 0.89178 480951.50 3775463.98 0.86346
481001.50 3775463.98 0.84830 481051.50 3775463.98 0.83064
481101.50 3775463.98 0.80279 481151.50 3775463.98 0.78547
481201.50 3775463.98 0.75473 481251.50 3775463.98 0.73605

```
         481301.50    3775463.98        0.71751                      481351.50
3775463.98        0.70160
         481401.50    3775463.98        0.67001                      480801.50
3775513.98        0.85774
         480851.50    3775513.98        0.83750                      480901.50
3775513.98        0.81058
         480951.50    3775513.98        0.79835                      481001.50
3775513.98        0.77056
         481051.50    3775513.98        0.75763                      481101.50
3775513.98        0.74354
         481151.50    3775513.98        0.71441                      481201.50
3775513.98        0.69832
         481251.50    3775513.98        0.67418                      481301.50
3775513.98        0.66719
         481351.50    3775513.98        0.65110                      481401.50
3775513.98        0.61869
         480801.50    3775563.98        0.78723                      480851.50
3775563.98        0.77359
         480901.50    3775563.98        0.75355                      480951.50
3775563.98        0.73689
         481001.50    3775563.98        0.71731                      481051.50
3775563.98        0.70363
         481101.50    3775563.98        0.68131                      481151.50
3775563.98        0.66487
         481201.50    3775563.98        0.64314                      481251.50
3775563.98        0.62419
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0002957    , L0002958
, L0002959    , L0002960    , L0002961    ,
                  L0002962    , L0002963    , L0002964    , L0002965    , L0002966
, L0002967    , L0002968    , L0002969    ,
                  L0002970    , L0002971    , L0002972    , L0002973    , L0002974
, L0002975    , L0002976    , L0002977    ,
                  L0002978    , L0002979    , L0002980    , L0002981    , L0002982
, L0002983    , L0002984    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3775563.98	0.61087	481351.50	3775563.98	0.58633
481401.50	3775563.98	0.56350	479332.46	3774240.22	0.71247
479382.46	3774240.22	0.75170	479432.46	3774240.22	0.79536
479482.46	3774240.22	0.84267	479532.46	3774240.22	0.89587
479582.46	3774240.22	0.95400	479632.46	3774240.22	1.01931
479682.46	3774240.22	1.09281	479732.46	3774240.22	1.17510
479782.46	3774240.22	1.27014	479832.46	3774240.22	1.37764
479882.46	3774240.22	1.50205	479932.46	3774240.22	1.64766
479332.46	3774290.22	0.71032	479382.46	3774290.22	0.74993
479432.46	3774290.22	0.79263	479482.46	3774290.22	0.83963
479532.46	3774290.22	0.89233	479582.46	3774290.22	0.94994
479632.46	3774290.22	1.01522	479682.46	3774290.22	1.08734
479732.46	3774290.22	1.16881	479782.46	3774290.22	1.26241
479832.46	3774290.22	1.36853	479882.46	3774290.22	1.49102
479932.46	3774290.22	1.63516	479332.46	3774340.22	0.70703
479382.46	3774340.22	0.74621	479432.46	3774340.22	0.78840
479482.46	3774340.22	0.83511	479532.46	3774340.22	0.88680
479582.46	3774340.22	0.94356	479632.46	3774340.22	1.00779
479682.46	3774340.22	1.07872	479732.46	3774340.22	1.15960
479782.46	3774340.22	1.25008	479832.46	3774340.22	1.35371
479882.46	3774340.22	1.47394	479932.46	3774340.22	1.61356
479332.46	3774390.22	0.70288	479382.46	3774390.22	0.74121
479432.46	3774390.22	0.78272	479482.46	3774390.22	0.82907
479532.46	3774390.22	0.87934	479582.46		

3774390.22 0.93563
  479632.46 3774390.22 0.99774 479682.46
3774390.22 1.06793
  479732.46 3774390.22 1.14569 479782.46
3774390.22 1.23355
  479832.46 3774390.22 1.33428 479882.46
3774390.22 1.44984
  479932.46 3774390.22 1.58351

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0001976 , L0001977 , L0001978 , L0001979 , L0001980 ,
L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 , L0001987 , L0001988 ,
L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480415.97	3774200.25	23.22872	480386.35	3774201.62	19.80678
480364.52	3774200.25	17.39382	480441.34	3774196.20	25.86024
480332.65	3774203.34	14.80373	480281.98	3774208.10	11.53538
480259.39	3774210.95	10.40758	480179.23	3774215.23	7.37369
479777.13	3774155.68	2.28260	479903.88	3774153.05	3.00412
479888.73	3774072.72	2.73430	480286.74	3774147.78	9.94980
480415.64	3774088.13	12.23923	480408.03	3774009.17	8.38312
480445.38	3774004.65	8.73587	480447.28	3774028.67	9.77573

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         480276.83    3774266.75       12.69726                    480151.33
3774266.75        6.95586
         480135.30    3774266.75        6.52894                    479301.50
3774413.98        1.08249
         479351.50    3774413.98        1.15785                    479401.50
3774413.98        1.24076
         479451.50    3774413.98        1.33428                    479501.50
3774413.98        1.44009
         479551.50    3774413.98        1.55907                    479601.50
3774413.98        1.69677
         479651.50    3774413.98        1.85309                    479701.50
3774413.98        2.03630
         479751.50    3774413.98        2.24791                    479801.50
3774413.98        2.49760
         479851.50    3774413.98        2.79876                    479901.50
3774413.98        3.15913
         479951.50    3774413.98        3.60484                    480001.50
3774413.98        4.15527
         480051.50    3774413.98        4.85898                    480101.50
3774413.98        5.77487
         480151.50    3774413.98        6.99935                    480201.50
3774413.98        8.71131
         480251.50    3774413.98       11.18508                    480301.50
3774413.98       15.03173
         480351.50    3774413.98       21.45522                    480401.50
3774413.98       33.42825
         480451.50    3774413.98       58.46808                    480501.50
3774413.98      104.11537
         480551.50    3774413.98      138.30205                    480601.50
3774413.98      131.57810
         480651.50    3774413.98       88.87273                    480701.50
3774413.98       50.62808
         480751.50    3774413.98       31.22574                    480801.50
3774413.98       21.14187
         480851.50    3774413.98       15.35962                    480901.50
3774413.98       11.72051
         480951.50    3774413.98        9.28284                    481001.50
3774413.98        7.56389
         481051.50    3774413.98        6.38944                    481101.50
3774413.98        5.46875
         481151.50    3774413.98        5.00502                    481201.50
3774413.98        4.73805
         481251.50    3774413.98        4.25839                    481301.50
3774413.98        3.85303
         481351.50    3774413.98        3.51894                    481401.50
3774413.98        3.20629
         481451.50    3774413.98        2.95646                    479301.50
3774463.98        1.07713
         479351.50    3774463.98        1.15162                    479401.50
3774463.98        1.23350
         479451.50    3774463.98        1.32652                    479501.50
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3774463.98        1.42999
         479551.50    3774463.98        1.54818                      479601.50
3774463.98        1.68227
         479651.50    3774463.98        1.83550                      479701.50
3774463.98        2.01467
         479751.50    3774463.98        2.22106                      479801.50
3774463.98        2.46654
         479851.50    3774463.98        2.75545                      479901.50
3774463.98        3.10402
         479951.50    3774463.98        3.52983                      480001.50
3774463.98        4.05323
         480051.50    3774463.98        4.71923                      480101.50
3774463.98        5.56737
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:46:25

                                   PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                   INCLUDING SOURCE(S):     L0001976    , L0001977
, L0001978    , L0001979    , L0001980    ,
                L0001981    , L0001982    , L0001983    , L0001984    , L0001985
, L0001986    , L0001987    , L0001988    ,
                L0001989    , L0001990    , L0001991    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         480151.50    3774463.98        6.69197                      480201.50
3774463.98        8.21071
         480251.50    3774463.98       10.33452                      480301.50
3774463.98       13.45438
         480351.50    3774463.98       18.15587                      480401.50
3774463.98       25.54702
         480451.50    3774463.98       36.57502                      480501.50
3774463.98       49.87421
         480551.50    3774463.98       58.62516                      480601.50
3774463.98       56.70993
         480651.50    3774463.98       45.72673                      480701.50
3774463.98       33.08088
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         480751.50    3774463.98       23.68172                    480801.50
3774463.98       17.41856
         480851.50    3774463.98       13.30740                    480901.50
3774463.98       10.48318
         480951.50    3774463.98        8.48678                    481001.50
3774463.98        7.02445
         481051.50    3774463.98        6.01405                    481101.50
3774463.98        5.15530
         481151.50    3774463.98        4.68407                    481201.50
3774463.98        4.38054
         481251.50    3774463.98        3.94654                    481301.50
3774463.98        3.58174
         481351.50    3774463.98        3.28237                    481401.50
3774463.98        3.00342
         481451.50    3774463.98        2.76319                    481501.50
3774463.98        2.54906
         479301.50    3774513.98        1.06958                    479351.50
3774513.98        1.14239
         479401.50    3774513.98        1.22274                    479451.50
3774513.98        1.31395
         479501.50    3774513.98        1.41507                    479551.50
3774513.98        1.53048
         479601.50    3774513.98        1.66092                    479651.50
3774513.98        1.81153
         479701.50    3774513.98        1.98293                    479751.50
3774513.98        2.18175
         479801.50    3774513.98        2.41733                    479851.50
3774513.98        2.69256
         479901.50    3774513.98        3.02488                    479951.50
3774513.98        3.42221
         480001.50    3774513.98        3.91209                    480051.50
3774513.98        4.51804
         480101.50    3774513.98        5.28094                    480151.50
3774513.98        6.26956
         480201.50    3774513.98        7.55738                    480251.50
3774513.98        9.27764
         480301.50    3774513.98       11.63793                    480351.50
3774513.98       14.84545
         480401.50    3774513.98       19.18064                    480451.50
3774513.98       24.45247
         480501.50    3774513.98       29.68580                    480551.50
3774513.98       32.71822
         480601.50    3774513.98       32.04103                    480651.50
3774513.98       28.05495
         480701.50    3774513.98       22.74691                    480751.50
3774513.98       17.88198
         480801.50    3774513.98       14.08746                    480851.50
3774513.98       11.26743
         480901.50    3774513.98        9.16496                    480951.50
3774513.98        7.59773
         481001.50    3774513.98        6.44902                    481051.50
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3774513.98 5.52092
481101.50 3774513.98 4.90603 481151.50
3774513.98 4.44967
481201.50 3774513.98 3.99626 481251.50
3774513.98 3.61322
481301.50 3774513.98 3.29242 481351.50
3774513.98 3.00937
481401.50 3774513.98 2.76730 481451.50
3774513.98 2.54961
481501.50 3774513.98 2.35107 481551.50
3774513.98 2.18393
479301.50 3774563.98 1.05913 479351.50
3774563.98 1.13029
479401.50 3774563.98 1.20890 479451.50
3774563.98 1.29744
479501.50 3774563.98 1.39562 479551.50
3774563.98 1.50735
*** AERMOD - VERSION 21112 *** *** Highland, Meines&Palm OP
*** 04/13/23
*** AERMET - VERSION 16216 *** ***
*** 17:46:25

PAGE 48
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0001976 , L0001977
, L0001978 , L0001979 , L0001980 ,
L0001981 , L0001982 , L0001983 , L0001984 , L0001985
, L0001986 , L0001987 , L0001988 ,
L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M) Y-COORD (M) CONC X-COORD (M)
Y-COORD (M) CONC
- - - -

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         480001.50    3774563.98        3.73425                    480051.50
3774563.98        4.27558
         480101.50    3774563.98        4.94963                    480151.50
3774563.98        5.78521
         480201.50    3774563.98        6.84021                    480251.50
3774563.98        8.19529
         480301.50    3774563.98        9.90581                    480351.50
3774563.98       12.05689
         480401.50    3774563.98       14.62440                    480451.50
3774563.98       17.37802
         480501.50    3774563.98       19.79508                    480551.50
3774563.98       21.09635
         480601.50    3774563.98       20.80483                    480651.50
3774563.98       19.04362
         480701.50    3774563.98       16.47598                    480751.50
3774563.98       13.79909
         480801.50    3774563.98       11.44240                    480851.50
3774563.98        9.50664
         480901.50    3774563.98        7.96119                    480951.50
3774563.98        6.74290
         481001.50    3774563.98        5.79465                    481051.50
3774563.98        5.05778
         481101.50    3774563.98        4.50599                    481151.50
3774563.98        4.01619
         481201.50    3774563.98        3.61341                    481251.50
3774563.98        3.27580
         481301.50    3774563.98        2.99051                    481351.50
3774563.98        2.74397
         481401.50    3774563.98        2.52508                    481451.50
3774563.98        2.31854
         481501.50    3774563.98        2.15649                    481551.50
3774563.98        2.00012
         479301.50    3774613.98        1.04687                    479351.50
3774613.98        1.11549
         479401.50    3774613.98        1.19233                    479451.50
3774613.98        1.27736
         479501.50    3774613.98        1.37208                    479551.50
3774613.98        1.47978
         479601.50    3774613.98        1.59986                    479651.50
3774613.98        1.73784
         479701.50    3774613.98        1.89333                    479751.50
3774613.98        2.07386
         479801.50    3774613.98        2.28026                    479851.50
3774613.98        2.52201
         479901.50    3774613.98        2.80423                    479951.50
3774613.98        3.13631
         480001.50    3774613.98        3.53512                    480051.50
3774613.98        4.00879
         480101.50    3774613.98        4.58624                    480151.50
3774613.98        5.28122
         480201.50    3774613.98        6.12990                    480251.50
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3774613.98        7.16310
         480301.50    3774613.98        8.40239                      480351.50
3774613.98        9.84045
         480401.50    3774613.98       11.41272                      480451.50
3774613.98       12.97058
         480501.50    3774613.98       14.21952                      480551.50
3774613.98       14.86027
         480601.50    3774613.98       14.71579                      480651.50
3774613.98       13.81711
         480701.50    3774613.98       12.45027                      480751.50
3774613.98       10.88682
         480801.50    3774613.98        9.38940                      480851.50
3774613.98        8.04742
         480901.50    3774613.98        6.91901                      480951.50
3774613.98        5.96799
         481001.50    3774613.98        5.19581                      481051.50
3774613.98        4.55555
         481101.50    3774613.98        4.03985                      481151.50
3774613.98        3.61789
         481201.50    3774613.98        3.26479                      481251.50
3774613.98        2.96881
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                  INCLUDING SOURCE(S):     L0001976    , L0001977
, L0001978    , L0001979    , L0001980    ,
                  L0001981    , L0001982    , L0001983    , L0001984    , L0001985
, L0001986    , L0001987    , L0001988    ,
                  L0001989    , L0001990    , L0001991    ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         481301.50    3774613.98        2.71676                      481351.50
3774613.98        2.49558
         481401.50    3774613.98        2.29776                      481451.50
3774613.98        2.11724
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         481501.50    3774613.98        1.95596                    481551.50
3774613.98        1.82419
         479301.50    3774663.98        1.03192                    479351.50
3774663.98        1.09825
         479401.50    3774663.98        1.17250                    479451.50
3774663.98        1.25405
         479501.50    3774663.98        1.34554                    479551.50
3774663.98        1.44759
         479601.50    3774663.98        1.56225                    479651.50
3774663.98        1.69204
         479701.50    3774663.98        1.83811                    479751.50
3774663.98        2.00667
         479801.50    3774663.98        2.19767                    479851.50
3774663.98        2.41982
         479901.50    3774663.98        2.67515                    479951.50
3774663.98        2.97224
         480001.50    3774663.98        3.32344                    480051.50
3774663.98        3.73420
         480101.50    3774663.98        4.21966                    480151.50
3774663.98        4.78919
         480201.50    3774663.98        5.46480                    480251.50
3774663.98        6.24463
         480301.50    3774663.98        7.13973                    480351.50
3774663.98        8.11429
         480401.50    3774663.98        9.12132                    480451.50
3774663.98       10.04946
         480501.50    3774663.98       10.75730                    480551.50
3774663.98       11.10973
         480601.50    3774663.98       11.02257                    480651.50
3774663.98       10.52880
         480701.50    3774663.98        9.72939                    480751.50
3774663.98        8.77585
         480801.50    3774663.98        7.79192                    480851.50
3774663.98        6.86023
         480901.50    3774663.98        6.00804                    480951.50
3774663.98        5.28173
         481001.50    3774663.98        4.63248                    481051.50
3774663.98        4.05650
         481101.50    3774663.98        3.62636                    481151.50
3774663.98        3.26466
         481201.50    3774663.98        2.96455                    481251.50
3774663.98        2.70145
         481301.50    3774663.98        2.48323                    481351.50
3774663.98        2.28020
         481401.50    3774663.98        2.09237                    481451.50
3774663.98        1.94121
         481501.50    3774663.98        1.78816                    481551.50
3774663.98        1.67075
         479301.50    3774713.98        1.01494                    479351.50
3774713.98        1.07902
         479401.50    3774713.98        1.15009                    479451.50
```

3774713.98 1.22793
  479501.50 3774713.98 1.31552 479551.50
3774713.98 1.41180
  479601.50 3774713.98 1.52085 479651.50
3774713.98 1.64173
  479701.50 3774713.98 1.77914 479751.50
3774713.98 1.93382
  479801.50 3774713.98 2.10958 479851.50
3774713.98 2.31100
  479901.50 3774713.98 2.53988 479951.50
3774713.98 2.80566
  480001.50 3774713.98 3.10877 480051.50
3774713.98 3.46022
  480101.50 3774713.98 3.86504 480151.50
3774713.98 4.33102
  480201.50 3774713.98 4.85955 480251.50
3774713.98 5.45538
  480301.50 3774713.98 6.10103 480351.50
3774713.98 6.77876
  480401.50 3774713.98 7.44366 480451.50
3774713.98 8.02852
  480501.50 3774713.98 8.45826 480551.50
3774713.98 8.66582
  480601.50 3774713.98 8.61205 480651.50
3774713.98 8.31719

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0001976 , L0001977 , L0001978 , L0001979 , L0001980 ,
L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 , L0001987 , L0001988 ,
L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

480701.50 3774713.98 7.82067 480751.50
3774713.98 7.21090
480801.50 3774713.98 6.54675 480851.50
3774713.98 5.88852
480901.50 3774713.98 5.23993 480951.50
3774713.98 4.64885
481001.50 3774713.98 4.07858 481051.50
3774713.98 3.64264
481101.50 3774713.98 3.28898 481151.50
3774713.98 2.96648
481201.50 3774713.98 2.71067 481251.50
3774713.98 2.47553
481301.50 3774713.98 2.28129 481351.50
3774713.98 2.09244
481401.50 3774713.98 1.91775 481451.50
3774713.98 1.78150
481501.50 3774713.98 1.64072 479301.50
3774763.98 0.99621
479351.50 3774763.98 1.05823 479401.50
3774763.98 1.12542
479451.50 3774763.98 1.19983 479501.50
3774763.98 1.28239
479551.50 3774763.98 1.37313 479601.50
3774763.98 1.47538
479651.50 3774763.98 1.58802 479701.50
3774763.98 1.71522
479751.50 3774763.98 1.85726 479801.50
3774763.98 2.01856
479851.50 3774763.98 2.19869 479901.50
3774763.98 2.40241
479951.50 3774763.98 2.63580 480001.50
3774763.98 2.89766
480051.50 3774763.98 3.19712 480101.50
3774763.98 3.53171
480151.50 3774763.98 3.90895 480201.50
3774763.98 4.32603
480251.50 3774763.98 4.77866 480301.50
3774763.98 5.25329
480351.50 3774763.98 5.73523 480401.50
3774763.98 6.18731
480451.50 3774763.98 6.57329 480501.50
3774763.98 6.84929
480551.50 3774763.98 6.97600 480601.50
3774763.98 6.94560
480651.50 3774763.98 6.75199 480701.50
3774763.98 6.43457
480751.50 3774763.98 6.02263 480801.50
3774763.98 5.56373
480851.50 3774763.98 5.09258 480901.50
3774763.98 4.60172
480951.50 3774763.98 4.10159 481001.50

3774763.98   3.66253
         481051.50   3774763.98   3.29089   481101.50
3774763.98   2.98999
         481151.50   3774763.98   2.71870   481201.50
3774763.98   2.47676
         481251.50   3774763.98   2.27836   481301.50
3774763.98   2.09256
         481351.50   3774763.98   1.91997   481401.50
3774763.98   1.76328
         481451.50   3774763.98   1.62758   481501.50
3774763.98   1.50680
         479301.50   3774813.98   0.97599   479351.50
3774813.98   1.03513
         479401.50   3774813.98   1.09897   479451.50
3774813.98   1.16979
         479501.50   3774813.98   1.24719   479551.50
3774813.98   1.33312
         479601.50   3774813.98   1.42761   479651.50
3774813.98   1.53202
         479701.50   3774813.98   1.64925   479751.50
3774813.98   1.77865
         479801.50   3774813.98   1.92454   479851.50
3774813.98   2.08577
         479901.50   3774813.98   2.26680   479951.50
3774813.98   2.46969
         480001.50   3774813.98   2.69470   480051.50
3774813.98   2.94761
         480101.50   3774813.98   3.22450   480151.50
3774813.98   3.52980

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE   ***
                                    INCLUDING SOURCE(S):   L0001976   , L0001977
, L0001978   , L0001979   , L0001980   ,
                  L0001981   , L0001982   , L0001983   , L0001984   , L0001985
, L0001986   , L0001987   , L0001988   ,
                  L0001989   , L0001990   , L0001991   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480201.50	3774813.98	3.85903	480251.50	3774813.98	4.20646
480301.50	3774813.98	4.56026	480351.50	3774813.98	4.90918
480401.50	3774813.98	5.22693	480451.50	3774813.98	5.49106
480501.50	3774813.98	5.67613	480551.50	3774813.98	5.76038
480601.50	3774813.98	5.73644	480651.50	3774813.98	5.60888
480701.50	3774813.98	5.39020	480751.50	3774813.98	5.10799
480801.50	3774813.98	4.78298	480851.50	3774813.98	4.40445
480901.50	3774813.98	4.06219	480951.50	3774813.98	3.66015
481001.50	3774813.98	3.25611	481051.50	3774813.98	2.97369
481101.50	3774813.98	2.71591	481151.50	3774813.98	2.48649
481201.50	3774813.98	2.28930	481251.50	3774813.98	2.10219
481301.50	3774813.98	1.94515	481351.50	3774813.98	1.77494
481401.50	3774813.98	1.62821	481451.50	3774813.98	1.49744
481501.50	3774813.98	1.39891	479301.50	3774863.98	0.95450
479351.50	3774863.98	1.01069	479401.50	3774863.98	1.07110
479451.50	3774863.98	1.13808	479501.50	3774863.98	1.21050
479551.50	3774863.98	1.29094	479601.50	3774863.98	1.37832
479651.50	3774863.98	1.47460	479701.50	3774863.98	1.58205
479751.50	3774863.98	1.69940	479801.50	3774863.98	1.83071
479851.50	3774863.98	1.97431	479901.50	3774863.98	2.13372
479951.50	3774863.98	2.31009	480001.50	3774863.98	2.50433
480051.50	3774863.98	2.71598	480101.50	3774863.98	2.94505
480151.50	3774863.98	3.19265	480201.50	3774863.98	3.45363
480251.50	3774863.98	3.72313	480301.50		

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3774863.98        3.99068
         480351.50    3774863.98        4.24838                    480401.50
3774863.98        4.47790
         480451.50    3774863.98        4.66455                    480501.50
3774863.98        4.79313
         480551.50    3774863.98        4.85121                    480601.50
3774863.98        4.83347
         480651.50    3774863.98        4.74458                    480701.50
3774863.98        4.55340
         480751.50    3774863.98        4.37913                    480801.50
3774863.98        4.15322
         480851.50    3774863.98        3.86664                    480901.50
3774863.98        3.57070
         480951.50    3774863.98        3.20619                    481001.50
3774863.98        2.94381
         481051.50    3774863.98        2.69707                    481101.50
3774863.98        2.48010
         481151.50    3774863.98        2.28436                    481201.50
3774863.98        2.11815
         481251.50    3774863.98        1.94351                    481301.50
3774863.98        1.77336
         481351.50    3774863.98        1.62582                    481401.50
3774863.98        1.49956
         481451.50    3774863.98        1.39064                    481501.50
3774863.98        1.28993
         479301.50    3774913.98        0.93201                    479351.50
3774913.98        0.98519
         479401.50    3774913.98        1.04215                    479451.50
3774913.98        1.10503
         479501.50    3774913.98        1.17269                    479551.50
3774913.98        1.24747
         479601.50    3774913.98        1.32821                    479651.50
3774913.98        1.41661
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***       04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:46:25

                                   PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                   INCLUDING SOURCE(S):     L0001976    , L0001977
, L0001978    , L0001979    , L0001980    ,
                  L0001981    , L0001982    , L0001983    , L0001984    , L0001985
, L0001986    , L0001987    , L0001988    ,
                  L0001989    , L0001990    , L0001991    ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479701.50	3774913.98	1.51459	479751.50	3774913.98	1.62071
479801.50	3774913.98	1.73844	479851.50	3774913.98	1.86588
479901.50	3774913.98	2.00582	479951.50	3774913.98	2.15875
480001.50	3774913.98	2.32491	480051.50	3774913.98	2.50320
480101.50	3774913.98	2.69310	480151.50	3774913.98	2.89510
480201.50	3774913.98	3.10239	480251.50	3774913.98	3.31400
480301.50	3774913.98	3.51922	480351.50	3774913.98	3.71313
480401.50	3774913.98	3.88250	480451.50	3774913.98	4.01837
480501.50	3774913.98	4.10934	480551.50	3774913.98	4.15201
480601.50	3774913.98	4.13906	480651.50	3774913.98	4.07377
480701.50	3774913.98	3.93152	480751.50	3774913.98	3.78593
480801.50	3774913.98	3.62016	480851.50	3774913.98	3.41910
480901.50	3774913.98	3.16587	480951.50	3774913.98	2.88510
481001.50	3774913.98	2.66883	481051.50	3774913.98	2.45753
481101.50	3774913.98	2.26533	481151.50	3774913.98	2.11138
481201.50	3774913.98	1.94291	481251.50	3774913.98	1.80192
481301.50	3774913.98	1.65657	481351.50	3774913.98	1.51337
481401.50	3774913.98	1.38841	481451.50	3774913.98	1.27989
481501.50	3774913.98	1.19153	479301.50	3774963.98	0.90874
479351.50	3774963.98	0.95892	479401.50	3774963.98	1.01244
479451.50	3774963.98	1.07128	479501.50	3774963.98	1.13428
479551.50	3774963.98	1.20355	479601.50		

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3774963.98        1.27791
         479651.50    3774963.98        1.35880                      479701.50
3774963.98        1.44785
         479751.50    3774963.98        1.54401                      479801.50
3774963.98        1.64878
         479851.50    3774963.98        1.76160                      479901.50
3774963.98        1.88421
         479951.50    3774963.98        2.01667                      480001.50
3774963.98        2.15876
         480051.50    3774963.98        2.30913                      480101.50
3774963.98        2.46691
         480151.50    3774963.98        2.63220                      480201.50
3774963.98        2.79891
         480251.50    3774963.98        2.96632                      480301.50
3774963.98        3.12588
         480351.50    3774963.98        3.27430                      480401.50
3774963.98        3.40199
         480451.50    3774963.98        3.50316                      480501.50
3774963.98        3.57007
         480551.50    3774963.98        3.59932                      480601.50
3774963.98        3.59170
         480651.50    3774963.98        3.54342                      480701.50
3774963.98        3.43362
         480751.50    3774963.98        3.28441                      480801.50
3774963.98        3.19238
         480851.50    3774963.98        3.02267                      480901.50
3774963.98        2.75871
         480951.50    3774963.98        2.57281                      481001.50
3774963.98        2.39495
         481051.50    3774963.98        2.22576                      481101.50
3774963.98        2.08012
         481151.50    3774963.98        1.92570                      481201.50
3774963.98        1.79065
         481251.50    3774963.98        1.64106                      481301.50
3774963.98        1.50680
         481351.50    3774963.98        1.38659                      481401.50
3774963.98        1.28107
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L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481451.50	3774963.98	1.18814	480801.50	3775013.98	2.79614
480851.50	3775013.98	2.61122	480901.50	3775013.98	2.46441
480951.50	3775013.98	2.32366	481001.50	3775013.98	2.17861
481051.50	3775013.98	2.03614	481101.50	3775013.98	1.89461
481151.50	3775013.98	1.77533	481201.50	3775013.98	1.62935
481251.50	3775013.98	1.49424	481301.50	3775013.98	1.37529
481351.50	3775013.98	1.26830	481401.50	3775013.98	1.18534
481451.50	3775013.98	1.10546	480801.50	3775063.98	2.43773
480851.50	3775063.98	2.32651	480901.50	3775063.98	2.21037
480951.50	3775063.98	2.09268	481001.50	3775063.98	1.97755
481051.50	3775063.98	1.85878	481101.50	3775063.98	1.73880
481151.50	3775063.98	1.61570	481201.50	3775063.98	1.49489
481251.50	3775063.98	1.36551	481301.50	3775063.98	1.25946
481351.50	3775063.98	1.16632	481401.50	3775063.98	1.08505
481451.50	3775063.98	1.02954	480801.50	3775113.98	2.18558
480851.50	3775113.98	2.08871	480901.50	3775113.98	1.99075
480951.50	3775113.98	1.89788	481001.50	3775113.98	1.80054
481051.50	3775113.98	1.68831	481101.50	3775113.98	1.56752
481151.50	3775113.98	1.45417	481201.50	3775113.98	1.34859
481251.50	3775113.98	1.24531	481301.50		

3775113.98   1.15441
         481351.50   3775113.98   1.07776   481401.50
3775113.98   1.00840
         481451.50   3775113.98   0.95641   480801.50
3775163.98   1.97240
         480851.50   3775163.98   1.89017   480901.50
3775163.98   1.80634
         480951.50   3775163.98   1.72815   481001.50
3775163.98   1.63415
         481051.50   3775163.98   1.52324   481101.50
3775163.98   1.41521
         481151.50   3775163.98   1.30713   481201.50
3775163.98   1.22457
         481251.50   3775163.98   1.13676   481301.50
3775163.98   1.06302
         481351.50   3775163.98   0.99853   481401.50
3775163.98   0.93803
         481451.50   3775163.98   0.88642   480801.50
3775213.98   1.77670
         480851.50   3775213.98   1.70904   480901.50
3775213.98   1.64056
         480951.50   3775213.98   1.56278   481001.50
3775213.98   1.47748
         481051.50   3775213.98   1.38791   481101.50
3775213.98   1.28370
         481151.50   3775213.98   1.19465   481201.50
3775213.98   1.11852
         481251.50   3775213.98   1.03919   481301.50
3775213.98   0.98267
         481351.50   3775213.98   0.92748   481401.50
3775213.98   0.86748
         481451.50   3775213.98   0.81745   480801.50
3775263.98   1.61070
         480851.50   3775263.98   1.55394   480901.50
3775263.98   1.48469
         480951.50   3775263.98   1.40280   481001.50
3775263.98   1.33949
         481051.50   3775263.98   1.24387   481101.50
3775263.98   1.16288
         481151.50   3775263.98   1.08975   481201.50
3775263.98   1.01732

                                  *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE   ***

INCLUDING SOURCE(S): L0001976 , L0001977
, L0001978 , L0001979 , L0001980 ,
L0001981 , L0001982 , L0001983 , L0001984 , L0001985
, L0001986 , L0001987 , L0001988 ,
L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481251.50	3775263.98	0.95912	481301.50	3775263.98	0.90717
481351.50	3775263.98	0.85097	481401.50	3775263.98	0.80811
481451.50	3775263.98	0.76793	480801.50	3775313.98	1.47541
480851.50	3775313.98	1.41926	480901.50	3775313.98	1.33756
480951.50	3775313.98	1.26265	481001.50	3775313.98	1.18314
481051.50	3775313.98	1.12350	481101.50	3775313.98	1.05535
481151.50	3775313.98	0.99093	481201.50	3775313.98	0.93813
481251.50	3775313.98	0.88049	481301.50	3775313.98	0.83665
481351.50	3775313.98	0.78545	481401.50	3775313.98	0.74632
480801.50	3775363.98	1.34215	480851.50	3775363.98	1.27779
480901.50	3775363.98	1.20774	480951.50	3775363.98	1.13080
481001.50	3775363.98	1.07804	481051.50	3775363.98	1.02198
481101.50	3775363.98	0.96004	481151.50	3775363.98	0.91521
481201.50	3775363.98	0.86889	481251.50	3775363.98	0.81816
481301.50	3775363.98	0.76902	481351.50	3775363.98	0.73404
481401.50	3775363.98	0.69492	480801.50	3775413.98	1.21777
480851.50	3775413.98	1.15967	480901.50	3775413.98	1.09196
480951.50	3775413.98	1.02712	481001.50		

3775413.98 0.96688
  481051.50 3775413.98 0.92377 481101.50
3775413.98 0.88275
  481151.50 3775413.98 0.83346 481201.50
3775413.98 0.79632
  481251.50 3775413.98 0.75613 481301.50
3775413.98 0.72700
  481351.50 3775413.98 0.68525 481401.50
3775413.98 0.65099
  480801.50 3775463.98 1.10736 480851.50
3775463.98 1.03435
  480901.50 3775463.98 0.98722 480951.50
3775463.98 0.92805
  481001.50 3775463.98 0.89094 481051.50
3775463.98 0.85239
  481101.50 3775463.98 0.80771 481151.50
3775463.98 0.77481
  481201.50 3775463.98 0.73353 481251.50
3775463.98 0.70397
  481301.50 3775463.98 0.67577 481351.50
3775463.98 0.65050
  481401.50 3775463.98 0.61619 480801.50
3775513.98 1.00245
  480851.50 3775513.98 0.93990 480901.50
3775513.98 0.88472
  480951.50 3775513.98 0.85314 481001.50
3775513.98 0.80710
  481051.50 3775513.98 0.77765 481101.50
3775513.98 0.74888
  481151.50 3775513.98 0.70977 481201.50
3775513.98 0.68329
  481251.50 3775513.98 0.65221 481301.50
3775513.98 0.63415
  481351.50 3775513.98 0.61054 481401.50
3775513.98 0.57668
  480801.50 3775563.98 0.89307 480851.50
3775563.98 0.85655
  480901.50 3775563.98 0.81721 480951.50
3775563.98 0.78353
  481001.50 3775563.98 0.74896 481051.50
3775563.98 0.72168
  481101.50 3775563.98 0.68880 481151.50
3775563.98 0.66292
  481201.50 3775563.98 0.63431 481251.50
3775563.98 0.60877

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0001976 , L0001977 , L0001978 , L0001979 , L0001980 , L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 , L0001987 , L0001988 , L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3775563.98	0.58803	481351.50	3775563.98	0.55971
481401.50	3775563.98	0.53316	479332.46	3774240.22	1.12500
479382.46	3774240.22	1.20402	479432.46	3774240.22	1.29359
479482.46	3774240.22	1.39296	479532.46	3774240.22	1.50700
479582.46	3774240.22	1.63490	479632.46	3774240.22	1.78218
479682.46	3774240.22	1.95245	479732.46	3774240.22	2.14883
479782.46	3774240.22	2.38230	479832.46	3774240.22	2.65549
479882.46	3774240.22	2.98263	479932.46	3774240.22	3.37941
479332.46	3774290.22	1.12937	479382.46	3774290.22	1.21028
479432.46	3774290.22	1.29958	479482.46	3774290.22	1.40013
479532.46	3774290.22	1.51546	479582.46	3774290.22	1.64508
479632.46	3774290.22	1.79582	479682.46	3774290.22	1.96769
479732.46	3774290.22	2.16807	479782.46	3774290.22	2.40600
479832.46	3774290.22	2.68619	479882.46	3774290.22	3.02266
479932.46	3774290.22	3.43557	479332.46	3774340.22	1.13079
479382.46	3774340.22	1.21195	479432.46		

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3774340.22        1.30154
         479482.46    3774340.22        1.40304                        479532.46
3774340.22        1.51827
         479582.46    3774340.22        1.64848                        479632.46
3774340.22        1.79999
         479682.46    3774340.22        1.97303                        479732.46
3774340.22        2.17694
         479782.46    3774340.22        2.41415                        479832.46
3774340.22        2.69692
         479882.46    3774340.22        3.03960                        479932.46
3774340.22        3.45746
         479332.46    3774390.22        1.12973                        479382.46
3774390.22        1.21015
         479432.46    3774390.22        1.29944                        479482.46
3774390.22        1.40145
         479532.46    3774390.22        1.51534                        479582.46
3774390.22        1.64642
         479632.46    3774390.22        1.79578                        479682.46
3774390.22        1.97008
         479732.46    3774390.22        2.17076                        479782.46
3774390.22        2.40670
         479832.46    3774390.22        2.68893                        479882.46
3774390.22        3.02863
         479932.46    3774390.22        3.44299

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        17:46:25

                                    PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                    INCLUDING SOURCE(S):     L0001992    , L0001993
, L0001994    , L0001995    , L0001996    ,
                  L0001997    , L0001998    , L0001999    , L0002000    , L0002001
, L0002002    , L0002003    , L0002004    ,
                  L0002005    , L0002006    , L0002007    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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         480415.97    3774200.25       24.49207                    480386.35
3774201.62       20.70405
         480364.52    3774200.25       18.07978                    480441.34
3774196.20       27.46580
         480332.65    3774203.34       15.28182                    480281.98
3774208.10       11.80926
         480259.39    3774210.95       10.62434                    480179.23
3774215.23        7.47674
         479777.13    3774155.68        2.29487                    479903.88
3774153.05        3.02562
         479888.73    3774072.72        2.75693                    480286.74
3774147.78       10.21614
         480415.64    3774088.13       12.74019                    480408.03
3774009.17        8.66159
         480445.38    3774004.65        9.03999                    480447.28
3774028.67       10.13937
         480276.83    3774266.75       12.92076                    480151.33
3774266.75        7.02179
         480135.30    3774266.75        6.58707                    479301.50
3774413.98        1.08330
         479351.50    3774413.98        1.15873                    479401.50
3774413.98        1.24170
         479451.50    3774413.98        1.33530                    479501.50
3774413.98        1.44119
         479551.50    3774413.98        1.56026                    479601.50
3774413.98        1.69804
         479651.50    3774413.98        1.85446                    479701.50
3774413.98        2.03775
         479751.50    3774413.98        2.24945                    479801.50
3774413.98        2.49918
         479851.50    3774413.98        2.80034                    479901.50
3774413.98        3.16061
         479951.50    3774413.98        3.60602                    480001.50
3774413.98        4.15580
         480051.50    3774413.98        4.85818                    480101.50
3774413.98        5.77143
         480151.50    3774413.98        6.99060                    480201.50
3774413.98        8.69135
         480251.50    3774413.98       11.14021                    480301.50
3774413.98       14.92497
         480351.50    3774413.98       21.17275                    480401.50
3774413.98       32.53599
         480451.50    3774413.98       54.96690                    480501.50
3774413.98       92.05779
         480551.50    3774413.98      118.86042                    480601.50
3774413.98      112.85645
         480651.50    3774413.98       78.70740                    480701.50
3774413.98       47.06482
         480751.50    3774413.98       29.82873                    480801.50
3774413.98       20.47637
         480851.50    3774413.98       14.99699                    480901.50
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3774413.98       11.50143
         480951.50    3774413.98        9.14078                      481001.50
3774413.98        7.46662
         481051.50    3774413.98        6.31631                      481101.50
3774413.98        5.41276
         481151.50    3774413.98        4.99063                      481201.50
3774413.98        4.67999
         481251.50    3774413.98        4.20804                      481301.50
3774413.98        3.80912
         481351.50    3774413.98        3.47980                      481401.50
3774413.98        3.17237
         481451.50    3774413.98        2.92542                      479301.50
3774463.98        1.07754
         479351.50    3774463.98        1.15203                      479401.50
3774463.98        1.23390
         479451.50    3774463.98        1.32690                      479501.50
3774463.98        1.43033
         479551.50    3774463.98        1.54846                      479601.50
3774463.98        1.68246
         479651.50    3774463.98        1.83554                      479701.50
3774463.98        2.01449
         479751.50    3774463.98        2.22056                      479801.50
3774463.98        2.46556
         479851.50    3774463.98        2.75377                      479901.50
3774463.98        3.10124
         479951.50    3774463.98        3.52538                      480001.50
3774463.98        4.04615
         480051.50    3774463.98        4.70786                      480101.50
3774463.98        5.54889
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE  57
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                  INCLUDING SOURCE(S):     L0001992    , L0001993
, L0001994    , L0001995    , L0001996    ,
                  L0001997    , L0001998    , L0001999    , L0002000    , L0002001
, L0002002    , L0002003    , L0002004    ,
                  L0002005    , L0002006    , L0002007    ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480151.50	3774463.98	6.66103	480201.50	3774463.98	8.15708
480251.50	3774463.98	10.23693	480301.50	3774463.98	13.26437
480351.50	3774463.98	17.75865	480401.50	3774463.98	24.65051
480451.50	3774463.98	34.54229	480501.50	3774463.98	45.95220
480551.50	3774463.98	53.21047	480601.50	3774463.98	51.42974
480651.50	3774463.98	42.01944	480701.50	3774463.98	31.02315
480751.50	3774463.98	22.58283	480801.50	3774463.98	16.80094
480851.50	3774463.98	12.93515	480901.50	3774463.98	10.24472
480951.50	3774463.98	8.32604	481001.50	3774463.98	6.91148
481051.50	3774463.98	5.92578	481101.50	3774463.98	5.08876
481151.50	3774463.98	4.64879	481201.50	3774463.98	4.31446
481251.50	3774463.98	3.88931	481301.50	3774463.98	3.53170
481351.50	3774463.98	3.23735	481401.50	3774463.98	2.96410
481451.50	3774463.98	2.72806	481501.50	3774463.98	2.51746
479301.50	3774513.98	1.06960	479351.50	3774513.98	1.14234
479401.50	3774513.98	1.22261	479451.50	3774513.98	1.31370
479501.50	3774513.98	1.41467	479551.50	3774513.98	1.52988
479601.50	3774513.98	1.66005	479651.50	3774513.98	1.81030
479701.50	3774513.98	1.98121	479751.50	3774513.98	2.17936
479801.50	3774513.98	2.41399	479851.50	3774513.98	2.68789
479901.50	3774513.98	3.01830	479951.50	3774513.98	3.41284
480001.50	3774513.98	3.89854	480051.50	3774513.98	4.49810
480101.50	3774513.98	5.25094	480151.50	3774513.98	6.22305
480201.50	3774513.98	7.48309	480251.50		

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3774513.98        9.15457
         480301.50    3774513.98       11.42522                       480351.50
3774513.98       14.46658
         480401.50    3774513.98       18.49539                       480451.50
3774513.98       23.26998
         480501.50    3774513.98       27.88367                       480551.50
3774513.98       30.48317
         480601.50    3774513.98       29.83124                       480651.50
3774513.98       26.29160
         480701.50    3774513.98       21.54572                       480751.50
3774513.98       17.11776
         480801.50    3774513.98       13.59961                       480851.50
3774513.98       10.94623
         480901.50    3774513.98        8.94609                       480951.50
3774513.98        7.44313
         481001.50    3774513.98        6.33061                       481051.50
3774513.98        5.43172
         481101.50    3774513.98        4.82609                       481151.50
3774513.98        4.37406
         481201.50    3774513.98        3.92990                       481251.50
3774513.98        3.55517
         481301.50    3774513.98        3.24086                       481351.50
3774513.98        2.96437
         481401.50    3774513.98        2.72632                       481451.50
3774513.98        2.51391
         481501.50    3774513.98        2.31847                       481551.50
3774513.98        2.15523
         479301.50    3774563.98        1.05876                       479351.50
3774563.98        1.12979
         479401.50    3774563.98        1.20825                       479451.50
3774563.98        1.29659
         479501.50    3774563.98        1.39452                       479551.50
3774563.98        1.50593
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        17:46:25

                                    PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                    INCLUDING SOURCE(S):     L0001992    , L0001993
, L0001994    , L0001995    , L0001996    ,
                  L0001997    , L0001998    , L0001999    , L0002000    , L0002001
, L0002002    , L0002003    , L0002004    ,
                  L0002005    , L0002006    , L0002007    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479601.50	3774563.98	1.63137	479651.50	3774563.98	1.77562
479701.50	3774563.98	1.93894	479751.50	3774563.98	2.12825
479801.50	3774563.98	2.34894	479851.50	3774563.98	2.60572
479901.50	3774563.98	2.91271	479951.50	3774563.98	3.27524
480001.50	3774563.98	3.71572	480051.50	3774563.98	4.24946
480101.50	3774563.98	4.91197	480151.50	3774563.98	5.72989
480201.50	3774563.98	6.75709	480251.50	3774563.98	8.06712
480301.50	3774563.98	9.70506	480351.50	3774563.98	11.73943
480401.50	3774563.98	14.12998	480451.50	3774563.98	16.64803
480501.50	3774563.98	18.81739	480551.50	3774563.98	19.95802
480601.50	3774563.98	19.67044	480651.50	3774563.98	18.06883
480701.50	3774563.98	15.73002	480751.50	3774563.98	13.26626
480801.50	3774563.98	11.06968	480851.50	3774563.98	9.24431
480901.50	3774563.98	7.77312	480951.50	3774563.98	6.60852
481001.50	3774563.98	5.68700	481051.50	3774563.98	4.96959
481101.50	3774563.98	4.42374	481151.50	3774563.98	3.94527
481201.50	3774563.98	3.55322	481251.50	3774563.98	3.22268
481301.50	3774563.98	2.94282	481351.50	3774563.98	2.70215
481401.50	3774563.98	2.48714	481451.50	3774563.98	2.28392
481501.50	3774563.98	2.12577	481551.50	3774563.98	1.97230
479301.50	3774613.98	1.04613	479351.50	3774613.98	1.11457
479401.50	3774613.98	1.19119	479451.50		

3774613.98   1.27594
         479501.50   3774613.98   1.37033   479551.50
3774613.98   1.47759
         479601.50   3774613.98   1.59712   479651.50
3774613.98   1.73439
         479701.50   3774613.98   1.88896   479751.50
3774613.98   2.06827
         479801.50   3774613.98   2.27308   479851.50
3774613.98   2.51267
         479901.50   3774613.98   2.79196   479951.50
3774613.98   3.12001
         480001.50   3774613.98   3.51314   480051.50
3774613.98   3.97882
         480101.50   3774613.98   4.54462   480151.50
3774613.98   5.22269
         480201.50   3774613.98   6.04631   480251.50
3774613.98   7.04228
         480301.50   3774613.98   8.22680   480351.50
3774613.98   9.58713
         480401.50   3774613.98   11.05649   480451.50
3774613.98   12.49325
         480501.50   3774613.98   13.62898   480551.50
3774613.98   14.19979
         480601.50   3774613.98   14.05458   480651.50
3774613.98   13.22311
         480701.50   3774613.98   11.96065   480751.50
3774613.98   10.50789
         480801.50   3774613.98   9.10465   480851.50
3774613.98   7.83586
         480901.50   3774613.98   6.76048   480951.50
3774613.98   5.84298
         481001.50   3774613.98   5.09892   481051.50
3774613.98   4.47567
         481101.50   3774613.98   3.96957   481151.50
3774613.98   3.55772
         481201.50   3774613.98   3.21233   481251.50
3774613.98   2.92259

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP   ***
                                  INCLUDING SOURCE(S):   L0001992   , L0001993
, L0001994   , L0001995   , L0001996   ,
                  L0001997   , L0001998   , L0001999   , L0002000   , L0002001
, L0002002   , L0002003   , L0002004   ,

L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3774613.98	2.67558	481351.50	3774613.98	2.45837
481401.50	3774613.98	2.26404	481451.50	3774613.98	2.08664
481501.50	3774613.98	1.92811	481551.50	3774613.98	1.79887
479301.50	3774663.98	1.03083	479351.50	3774663.98	1.09694
479401.50	3774663.98	1.17091	479451.50	3774663.98	1.25212
479501.50	3774663.98	1.34319	479551.50	3774663.98	1.44472
479601.50	3774663.98	1.55873	479651.50	3774663.98	1.68768
479701.50	3774663.98	1.83269	479751.50	3774663.98	1.99987
479801.50	3774663.98	2.18909	479851.50	3774663.98	2.40888
479901.50	3774663.98	2.66108	479951.50	3774663.98	2.95398
480001.50	3774663.98	3.29944	480051.50	3774663.98	3.70234
480101.50	3774663.98	4.17691	480151.50	3774663.98	4.73134
480201.50	3774663.98	5.38574	480251.50	3774663.98	6.13643
480301.50	3774663.98	6.99183	480351.50	3774663.98	7.91520
480401.50	3774663.98	8.86035	480451.50	3774663.98	9.72258
480501.50	3774663.98	10.37280	480551.50	3774663.98	10.69076
480601.50	3774663.98	10.60255	480651.50	3774663.98	10.13976
480701.50	3774663.98	9.39319	480751.50	3774663.98	8.49990
480801.50	3774663.98	7.57290	480851.50	3774663.98	6.68937
480901.50	3774663.98	5.87477	480951.50		

3774663.98 5.17694
481001.50 3774663.98 4.54776 481051.50
3774663.98 3.98554
481101.50 3774663.98 3.56661 481151.50
3774663.98 3.21343
481201.50 3774663.98 2.92003 481251.50
3774663.98 2.66213
481301.50 3774663.98 2.44825 481351.50
3774663.98 2.24837
481401.50 3774663.98 2.06335 481451.50
3774663.98 1.91489
481501.50 3774663.98 1.76404 481551.50
3774663.98 1.64864
479301.50 3774713.98 1.01353 479351.50
3774713.98 1.07735
479401.50 3774713.98 1.14810 479451.50
3774713.98 1.22555
479501.50 3774713.98 1.31266 479551.50
3774713.98 1.40835
479601.50 3774713.98 1.51666 479651.50
3774713.98 1.63662
479701.50 3774713.98 1.77287 479751.50
3774713.98 1.92608
479801.50 3774713.98 2.09996 479851.50
3774713.98 2.29894
479901.50 3774713.98 2.52466 479951.50
3774713.98 2.78627
480001.50 3774713.98 3.08390 480051.50
3774713.98 3.42806
480101.50 3774713.98 3.82315 480151.50
3774713.98 4.27615
480201.50 3774713.98 4.78757 480251.50
3774713.98 5.36098
480301.50 3774713.98 5.97843 480351.50
3774713.98 6.62202
480401.50 3774713.98 7.24862 480451.50
3774713.98 7.79531
480501.50 3774713.98 8.19336 480551.50
3774713.98 8.38232
480601.50 3774713.98 8.32749 480651.50
3774713.98 8.04835

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***

INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 , L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 , L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480701.50	3774713.98	7.58054	480751.50	3774713.98	7.00530
480801.50	3774713.98	6.37641	480851.50	3774713.98	5.75016
480901.50	3774713.98	5.12850	480951.50	3774713.98	4.55891
481001.50	3774713.98	4.00539	481051.50	3774713.98	3.58199
481101.50	3774713.98	3.23781	481151.50	3774713.98	2.92268
481201.50	3774713.98	2.67261	481251.50	3774713.98	2.44194
481301.50	3774713.98	2.25133	481351.50	3774713.98	2.06523
481401.50	3774713.98	1.89306	481451.50	3774713.98	1.75902
481501.50	3774713.98	1.62011	479301.50	3774763.98	0.99452
479351.50	3774763.98	1.05624	479401.50	3774763.98	1.12308
479451.50	3774763.98	1.19705	479501.50	3774763.98	1.27909
479551.50	3774763.98	1.36919	479601.50	3774763.98	1.47065
479651.50	3774763.98	1.58233	479701.50	3774763.98	1.70830
479751.50	3774763.98	1.84884	479801.50	3774763.98	2.00821
479851.50	3774763.98	2.18594	479901.50	3774763.98	2.38659
479951.50	3774763.98	2.61602	480001.50	3774763.98	2.87282
480051.50	3774763.98	3.16571	480101.50	3774763.98	3.49193
480151.50	3774763.98	3.85838	480201.50		

3774763.98   4.26184
         480251.50   3774763.98   4.69759   480301.50
3774763.98   5.15207
         480351.50   3774763.98   5.61087   480401.50
3774763.98   6.03856
         480451.50   3774763.98   6.40129   480501.50
3774763.98   6.65863
         480551.50   3774763.98   6.77470   480601.50
3774763.98   6.74317
         480651.50   3774763.98   6.55843   480701.50
3774763.98   6.25724
         480751.50   3774763.98   5.86627   480801.50
3774763.98   5.42973
         480851.50   3774763.98   4.98000   480901.50
3774763.98   4.50845
         480951.50   3774763.98   4.02497   481001.50
3774763.98   3.59944
         481051.50   3774763.98   3.23834   481101.50
3774763.98   2.94547
         481151.50   3774763.98   2.68057   481201.50
3774763.98   2.44366
         481251.50   3774763.98   2.24914   481301.50
3774763.98   2.06642
         481351.50   3774763.98   1.89648   481401.50
3774763.98   1.74213
         481451.50   3774763.98   1.60836   481501.50
3774763.98   1.48921
         479301.50   3774813.98   0.97404   479351.50
3774813.98   1.03286
         479401.50   3774813.98   1.09632   479451.50
3774813.98   1.16668
         479501.50   3774813.98   1.24352   479551.50
3774813.98   1.32878
         479601.50   3774813.98   1.42246   479651.50
3774813.98   1.52587
         479701.50   3774813.98   1.64188   479751.50
3774813.98   1.76977
         479801.50   3774813.98   1.91379   479851.50
3774813.98   2.07269
         479901.50   3774813.98   2.25082   479951.50
3774813.98   2.45006
         480001.50   3774813.98   2.67053   480051.50
3774813.98   2.91769
         480101.50   3774813.98   3.18749   480151.50
3774813.98   3.48398

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 ,
L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 ,
L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480201.50	3774813.98	3.80252	480251.50	3774813.98	4.13725
480301.50	3774813.98	4.47655	480351.50	3774813.98	4.80955
480401.50	3774813.98	5.11123	480451.50	3774813.98	5.36055
480501.50	3774813.98	5.53406	480551.50	3774813.98	5.61172
480601.50	3774813.98	5.58705	480651.50	3774813.98	5.46455
480701.50	3774813.98	5.25581	480751.50	3774813.98	4.98661
480801.50	3774813.98	4.67614	480851.50	3774813.98	4.31258
480901.50	3774813.98	3.98390	480951.50	3774813.98	3.58635
481001.50	3774813.98	3.20206	481051.50	3774813.98	2.92789
481101.50	3774813.98	2.67689	481151.50	3774813.98	2.45294
481201.50	3774813.98	2.26004	481251.50	3774813.98	2.07631
481301.50	3774813.98	1.92211	481351.50	3774813.98	1.75441
481401.50	3774813.98	1.60984	481451.50	3774813.98	1.48085
481501.50	3774813.98	1.38371	479301.50	3774863.98	0.95234
479351.50	3774863.98	1.00818	479401.50	3774863.98	1.06819
479451.50	3774863.98	1.13469	479501.50		

3774863.98 1.20654
479551.50 3774863.98 1.28629 479601.50
3774863.98 1.37285
479651.50 3774863.98 1.46815 479701.50
3774863.98 1.57439
479751.50 3774863.98 1.69028 479801.50
3774863.98 1.81979
479851.50 3774863.98 1.96120 479901.50
3774863.98 2.11793
479951.50 3774863.98 2.29101 480001.50
3774863.98 2.48121
480051.50 3774863.98 2.68795 480101.50
3774863.98 2.91110
480151.50 3774863.98 3.15158 480201.50
3774863.98 3.40419
480251.50 3774863.98 3.66410 480301.50
3774863.98 3.92111
480351.50 3774863.98 4.16764 480401.50
3774863.98 4.38623
480451.50 3774863.98 4.56313 480501.50
3774863.98 4.68422
480551.50 3774863.98 4.73802 480601.50
3774863.98 4.71973
480651.50 3774863.98 4.63392 480701.50
3774863.98 4.44952
480751.50 3774863.98 4.28330 480801.50
3774863.98 4.06700
480851.50 3774863.98 3.79085 480901.50
3774863.98 3.50518
480951.50 3774863.98 3.15113 481001.50
3774863.98 2.89678
481051.50 3774863.98 2.65694 481101.50
3774863.98 2.44562
481151.50 3774863.98 2.25447 481201.50
3774863.98 2.09194
481251.50 3774863.98 1.92033 481301.50
3774863.98 1.75296
481351.50 3774863.98 1.60778 481401.50
3774863.98 1.48342
481451.50 3774863.98 1.37607 481501.50
3774863.98 1.27667
479301.50 3774913.98 0.92966 479351.50
3774913.98 0.98249
479401.50 3774913.98 1.03903 479451.50
3774913.98 1.10143
479501.50 3774913.98 1.16851 479551.50
3774913.98 1.24260
479601.50 3774913.98 1.32254 479651.50
3774913.98 1.40997

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***

INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 , L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 , L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479701.50	3774913.98	1.50678	479751.50	3774913.98	1.61151
479801.50	3774913.98	1.72755	479851.50	3774913.98	1.85297
479901.50	3774913.98	1.99048	479951.50	3774913.98	2.14048
480001.50	3774913.98	2.30312	480051.50	3774913.98	2.47724
480101.50	3774913.98	2.66223	480151.50	3774913.98	2.85847
480201.50	3774913.98	3.05925	480251.50	3774913.98	3.26357
480301.50	3774913.98	3.46103	480351.50	3774913.98	3.64694
480401.50	3774913.98	3.80870	480451.50	3774913.98	3.93792
480501.50	3774913.98	4.02390	480551.50	3774913.98	4.06363
480601.50	3774913.98	4.05024	480651.50	3774913.98	3.98695
480701.50	3774913.98	3.84912	480751.50	3774913.98	3.70911
480801.50	3774913.98	3.54197	480851.50	3774913.98	3.35607
480901.50	3774913.98	3.10325	480951.50	3774913.98	2.83774
481001.50	3774913.98	2.62782	481051.50		

3774913.98 2.42220
481101.50 3774913.98 2.23475 481151.50
3774913.98 2.08455
481201.50 3774913.98 1.91925 481251.50
3774913.98 1.78100
481301.50 3774913.98 1.63816 481351.50
3774913.98 1.49720
481401.50 3774913.98 1.37406 481451.50
3774913.98 1.26702
481501.50 3774913.98 1.17985 479301.50
3774963.98 0.90624
479351.50 3774963.98 0.95606 479401.50
3774963.98 1.00916
479451.50 3774963.98 1.06752 479501.50
3774963.98 1.12995
479551.50 3774963.98 1.19855 479601.50
3774963.98 1.27212
479651.50 3774963.98 1.35208 479701.50
3774963.98 1.44001
479751.50 3774963.98 1.53486 479801.50
3774963.98 1.63807
479851.50 3774963.98 1.74906 479901.50
3774963.98 1.86948
479951.50 3774963.98 1.99936 480001.50
3774963.98 2.13842
480051.50 3774963.98 2.28527 480101.50
3774963.98 2.43900
480151.50 3774963.98 2.59965 480201.50
3774963.98 2.76125
480251.50 3774963.98 2.92309 480301.50
3774963.98 3.07686
480351.50 3774963.98 3.21945 480401.50
3774963.98 3.34171
480451.50 3774963.98 3.43822 480501.50
3774963.98 3.50166
480551.50 3774963.98 3.52893 480601.50
3774963.98 3.52089
480651.50 3774963.98 3.47391 480701.50
3774963.98 3.36712
480751.50 3774963.98 3.21450 480801.50
3774963.98 3.13439
480851.50 3774963.98 2.97018 480901.50
3774963.98 2.71295
480951.50 3774963.98 2.53249 481001.50
3774963.98 2.35961
481051.50 3774963.98 2.19483 481101.50
3774963.98 2.05280
481151.50 3774963.98 1.90157 481201.50
3774963.98 1.76931
481251.50 3774963.98 1.62245 481301.50
3774963.98 1.49050

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 ,
L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 ,
L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481451.50	3774963.98	1.17664	480801.50	3775013.98	2.74161
480851.50	3775013.98	2.56819	480901.50	3775013.98	2.42563
480951.50	3775013.98	2.28889	481001.50	3775013.98	2.14775
481051.50	3775013.98	2.00873	481101.50	3775013.98	1.87021
481151.50	3775013.98	1.75361	481201.50	3775013.98	1.61041
481251.50	3775013.98	1.47774	481301.50	3775013.98	1.36080
481351.50	3775013.98	1.25550	481401.50	3775013.98	1.17384
481451.50	3775013.98	1.09511	480801.50	3775063.98	2.39845
480851.50	3775063.98	2.29032	480901.50	3775063.98	2.17735
480951.50	3775063.98	2.06282	481001.50	3775063.98	1.95060
481051.50	3775063.98	1.83445	481101.50	3775063.98	1.71700
481151.50	3775063.98	1.59643	481201.50		

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3775063.98        1.47797
         481251.50    3775063.98        1.35081                   481301.50
3775063.98        1.24653
         481351.50    3775063.98        1.15486                   481401.50
3775063.98        1.07481
         481451.50    3775063.98        1.02017                   480801.50
3775113.98        2.15238
         480851.50    3775113.98        2.05796                   480901.50
3775113.98        1.96250
         480951.50    3775113.98        1.87195                   481001.50
3775113.98        1.77678
         481051.50    3775113.98        1.66680                   481101.50
3775113.98        1.54847
         481151.50    3775113.98        1.43735                   481201.50
3775113.98        1.33374
         481251.50    3775113.98        1.23224                   481301.50
3775113.98        1.14285
         481351.50    3775113.98        1.06745                   481401.50
3775113.98        0.99914
         481451.50    3775113.98        0.94795                   480801.50
3775163.98        1.94409
         480851.50    3775163.98        1.86379                   480901.50
3775163.98        1.78187
         480951.50    3775163.98        1.70540                   481001.50
3775163.98        1.61324
         481051.50    3775163.98        1.50452                   481101.50
3775163.98        1.39859
         481151.50    3775163.98        1.29248                   481201.50
3775163.98        1.21146
         481251.50    3775163.98        1.12515                   481301.50
3775163.98        1.05264
         481351.50    3775163.98        0.98920                   481401.50
3775163.98        0.92962
         481451.50    3775163.98        0.87878                   480801.50
3775213.98        1.75256
         480851.50    3775213.98        1.68635                   480901.50
3775213.98        1.61915
         480951.50    3775213.98        1.54285                   481001.50
3775213.98        1.45927
         481051.50    3775213.98        1.37147                   481101.50
3775213.98        1.26914
         481151.50    3775213.98        1.18166                   481201.50
3775213.98        1.10689
         481251.50    3775213.98        1.02886                   481301.50
3775213.98        0.97330
         481351.50    3775213.98        0.91902                   481401.50
3775213.98        0.85989
         481451.50    3775213.98        0.81058                   480801.50
3775263.98        1.58994
         480851.50    3775263.98        1.53410                   480901.50
3775263.98        1.46600
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 , L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 , L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480951.50	3775263.98	1.38566	481001.50	3775263.98	1.32364
481051.50	3775263.98	1.22970	481101.50	3775263.98	1.15014
481151.50	3775263.98	1.07828	481201.50	3775263.98	1.00706
481251.50	3775263.98	0.94983	481301.50	3775263.98	0.89873
481351.50	3775263.98	0.84339	481401.50	3775263.98	0.80119
481451.50	3775263.98	0.76161	480801.50	3775313.98	1.45722
480851.50	3775313.98	1.40184	480901.50	3775313.98	1.32147
480951.50	3775313.98	1.24788	481001.50	3775313.98	1.16974
481051.50	3775313.98	1.11118	481101.50	3775313.98	1.04420
481151.50	3775313.98	0.98084	481201.50	3775313.98	0.92894
481251.50	3775313.98	0.87219	481301.50	3775313.98	0.82906
481351.50	3775313.98	0.77861	481401.50	3775313.98	0.74007
480801.50	3775363.98	1.32615	480851.50		

3775363.98 1.26274
480901.50 3775363.98 1.19385 480951.50
3775363.98 1.11815
481001.50 3775363.98 1.06631 481051.50
3775363.98 1.01119
481101.50 3775363.98 0.95026 481151.50
3775363.98 0.90618
481201.50 3775363.98 0.86062 481251.50
3775363.98 0.81065
481301.50 3775363.98 0.76223 481351.50
3775363.98 0.72780
481401.50 3775363.98 0.68924 480801.50
3775413.98 1.20381
480851.50 3775413.98 1.14662 480901.50
3775413.98 1.07995
480951.50 3775413.98 1.01611 481001.50
3775413.98 0.95681
481051.50 3775413.98 0.91440 481101.50
3775413.98 0.87406
481151.50 3775413.98 0.82552 481201.50
3775413.98 0.78898
481251.50 3775413.98 0.74939 481301.50
3775413.98 0.72074
481351.50 3775413.98 0.67956 481401.50
3775413.98 0.64579
480801.50 3775463.98 1.09523 480851.50
3775463.98 1.02325
480901.50 3775463.98 0.97684 480951.50
3775463.98 0.91852
481001.50 3775463.98 0.88201 481051.50
3775463.98 0.84406
481101.50 3775463.98 0.80004 481151.50
3775463.98 0.76765
481201.50 3775463.98 0.72697 481251.50
3775463.98 0.69786
481301.50 3775463.98 0.67010 481351.50
3775463.98 0.64522
481401.50 3775463.98 0.61136 480801.50
3775513.98 0.99195
480851.50 3775513.98 0.93024 480901.50
3775513.98 0.87583
480951.50 3775513.98 0.84473 481001.50
3775513.98 0.79934
481051.50 3775513.98 0.77033 481101.50
3775513.98 0.74201
481151.50 3775513.98 0.70344 481201.50
3775513.98 0.67736
481251.50 3775513.98 0.64672 481301.50
3775513.98 0.62897
481351.50 3775513.98 0.60570 481401.50
3775513.98 0.57227

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 , L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 , L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480801.50	3775563.98	0.88414	480851.50	3775563.98	0.84813
480901.50	3775563.98	0.80933	480951.50	3775563.98	0.77612
481001.50	3775563.98	0.74202	481051.50	3775563.98	0.71513
481101.50	3775563.98	0.68270	481151.50	3775563.98	0.65719
481201.50	3775563.98	0.62897	481251.50	3775563.98	0.60379
481301.50	3775563.98	0.58335	481351.50	3775563.98	0.55540
481401.50	3775563.98	0.52919	479332.46	3774240.22	1.12735
479382.46	3774240.22	1.20668	479432.46	3774240.22	1.29663
479482.46	3774240.22	1.39644	479532.46	3774240.22	1.51103
479582.46	3774240.22	1.63960	479632.46	3774240.22	1.78771
479682.46	3774240.22	1.95901	479732.46	3774240.22	2.15670
479782.46	3774240.22	2.39189	479832.46	3774240.22	2.66730
479882.46	3774240.22	2.99740	479932.46		

3774240.22   3.39824
         479332.46   3774290.22   1.13130   479382.46
3774290.22   1.21246
         479432.46   3774290.22   1.30205   479482.46
3774290.22   1.40295
         479532.46   3774290.22   1.51870   479582.46
3774290.22   1.64884
         479632.46   3774290.22   1.80021   479682.46
3774290.22   1.97286
         479732.46   3774290.22   2.17424   479782.46
3774290.22   2.41345
         479832.46   3774290.22   2.69529   479882.46
3774290.22   3.03396
         479932.46   3774290.22   3.44989   479332.46
3774340.22   1.13229
         479382.46   3774340.22   1.21363   479432.46
3774340.22   1.30343
         479482.46   3774340.22   1.40517   479532.46
3774340.22   1.52068
         479582.46   3774340.22   1.65124   479632.46
3774340.22   1.80317
         479682.46   3774340.22   1.97672   479732.46
3774340.22   2.18126
         479782.46   3774340.22   2.41927   479832.46
3774340.22   2.70305
         479882.46   3774340.22   3.04706   479932.46
3774340.22   3.46666
         479332.46   3774390.22   1.13079   479382.46
3774390.22   1.21131
         479432.46   3774390.22   1.30072   479482.46
3774390.22   1.40286
         479532.46   3774390.22   1.51690   479582.46
3774390.22   1.64815
         479632.46   3774390.22   1.79770   479682.46
3774390.22   1.97223
         479732.46   3774390.22   2.17317   479782.46
3774390.22   2.40941
         479832.46   3774390.22   2.69198   479882.46
3774390.22   3.03206
         479932.46   3774390.22   3.44683

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN   ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480415.97	3774200.25	0.00704	480386.35	3774201.62	0.00719
480364.52	3774200.25	0.00650	480441.34	3774196.20	0.00732
480332.65	3774203.34	0.00596	480281.98	3774208.10	0.00488
480259.39	3774210.95	0.00444	480179.23	3774215.23	0.00313
479777.13	3774155.68	0.00076	479903.88	3774153.05	0.00107
479888.73	3774072.72	0.00093	480286.74	3774147.78	0.00402
480415.64	3774088.13	0.00407	480408.03	3774009.17	0.00305
480445.38	3774004.65	0.00322	480447.28	3774028.67	0.00352
480276.83	3774266.75	0.00552	480151.33	3774266.75	0.00301
480135.30	3774266.75	0.00280	479301.50	3774413.98	0.00030
479351.50	3774413.98	0.00033	479401.50	3774413.98	0.00036
479451.50	3774413.98	0.00039	479501.50	3774413.98	0.00043
479551.50	3774413.98	0.00048	479601.50	3774413.98	0.00053
479651.50	3774413.98	0.00059	479701.50	3774413.98	0.00067
479751.50	3774413.98	0.00076	479801.50	3774413.98	0.00087
479851.50	3774413.98	0.00101	479901.50	3774413.98	0.00117
479951.50	3774413.98	0.00139	480001.50	3774413.98	0.00166
480051.50	3774413.98	0.00201	480101.50	3774413.98	0.00247
480151.50	3774413.98	0.00309	480201.50	3774413.98	0.00393
480251.50	3774413.98	0.00506	480301.50		

```
3774413.98        0.00659
         480351.50    3774413.98        0.00834                      480401.50
3774413.98        0.00944
         480451.50    3774413.98        0.00952                      480501.50
3774413.98        0.00981
         480551.50    3774413.98        0.03150                      480601.50
3774413.98        0.04507
         480651.50    3774413.98        0.04255                      480701.50
3774413.98        0.03501
         480751.50    3774413.98        0.02516                      480801.50
3774413.98        0.02068
         480851.50    3774413.98        0.01644                      480901.50
3774413.98        0.01309
         480951.50    3774413.98        0.01045                      481001.50
3774413.98        0.00839
         481051.50    3774413.98        0.00679                      481101.50
3774413.98        0.00554
         481151.50    3774413.98        0.00456                      481201.50
3774413.98        0.00380
         481251.50    3774413.98        0.00320                      481301.50
3774413.98        0.00273
         481351.50    3774413.98        0.00235                      481401.50
3774413.98        0.00206
         481451.50    3774413.98        0.00181                      479301.50
3774463.98        0.00030
         479351.50    3774463.98        0.00033                      479401.50
3774463.98        0.00036
         479451.50    3774463.98        0.00039                      479501.50
3774463.98        0.00043
         479551.50    3774463.98        0.00047                      479601.50
3774463.98        0.00052
         479651.50    3774463.98        0.00059                      479701.50
3774463.98        0.00066
         479751.50    3774463.98        0.00075                      479801.50
3774463.98        0.00085
         479851.50    3774463.98        0.00098                      479901.50
3774463.98        0.00114
         479951.50    3774463.98        0.00135                      480001.50
3774463.98        0.00160
         480051.50    3774463.98        0.00193                      480101.50
3774463.98        0.00235
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                       ***         04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                  PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN       ***
```

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480151.50	3774463.98	0.00291	480201.50	3774463.98	0.00365
480251.50	3774463.98	0.00463	480301.50	3774463.98	0.00589
480351.50	3774463.98	0.00734	480401.50	3774463.98	0.00888
480451.50	3774463.98	0.01001	480501.50	3774463.98	0.01044
480551.50	3774463.98	0.01183	480601.50	3774463.98	0.01657
480651.50	3774463.98	0.01843	480701.50	3774463.98	0.01642
480751.50	3774463.98	0.01468	480801.50	3774463.98	0.01313
480851.50	3774463.98	0.01114	480901.50	3774463.98	0.00922
480951.50	3774463.98	0.00764	481001.50	3774463.98	0.00632
481051.50	3774463.98	0.00524	481101.50	3774463.98	0.00438
481151.50	3774463.98	0.00370	481201.50	3774463.98	0.00314
481251.50	3774463.98	0.00270	481301.50	3774463.98	0.00234
481351.50	3774463.98	0.00205	481401.50	3774463.98	0.00181
481451.50	3774463.98	0.00162	481501.50	3774463.98	0.00146
479301.50	3774513.98	0.00030	479351.50	3774513.98	0.00032
479401.50	3774513.98	0.00035	479451.50	3774513.98	0.00038
479501.50	3774513.98	0.00042	479551.50	3774513.98	0.00046
479601.50	3774513.98	0.00051	479651.50	3774513.98	0.00057
479701.50	3774513.98	0.00064	479751.50	3774513.98	0.00073
479801.50	3774513.98	0.00083	479851.50		

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3774513.98        0.00095
         479901.50    3774513.98        0.00110                      479951.50
3774513.98        0.00129
         480001.50    3774513.98        0.00152                      480051.50
3774513.98        0.00182
         480101.50    3774513.98        0.00219                      480151.50
3774513.98        0.00268
         480201.50    3774513.98        0.00329                      480251.50
3774513.98        0.00408
         480301.50    3774513.98        0.00509                      480351.50
3774513.98        0.00617
         480401.50    3774513.98        0.00745                      480451.50
3774513.98        0.00838
         480501.50    3774513.98        0.00872                      480551.50
3774513.98        0.00816
         480601.50    3774513.98        0.00847                      480651.50
3774513.98        0.00858
         480701.50    3774513.98        0.00877                      480751.50
3774513.98        0.00849
         480801.50    3774513.98        0.00798                      480851.50
3774513.98        0.00719
         480901.50    3774513.98        0.00626                      480951.50
3774513.98        0.00540
         481001.50    3774513.98        0.00463                      481051.50
3774513.98        0.00398
         481101.50    3774513.98        0.00342                      481151.50
3774513.98        0.00297
         481201.50    3774513.98        0.00258                      481251.50
3774513.98        0.00226
         481301.50    3774513.98        0.00200                      481351.50
3774513.98        0.00178
         481401.50    3774513.98        0.00159                      481451.50
3774513.98        0.00144
         481501.50    3774513.98        0.00130                      481551.50
3774513.98        0.00119
         479301.50    3774563.98        0.00029                      479351.50
3774563.98        0.00032
         479401.50    3774563.98        0.00035                      479451.50
3774563.98        0.00038
         479501.50    3774563.98        0.00041                      479551.50
3774563.98        0.00045
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                  PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN       ***
```

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479601.50	3774563.98	0.00050	479651.50	3774563.98	0.00056
479701.50	3774563.98	0.00062	479751.50	3774563.98	0.00070
479801.50	3774563.98	0.00080	479851.50	3774563.98	0.00091
479901.50	3774563.98	0.00105	479951.50	3774563.98	0.00122
480001.50	3774563.98	0.00143	480051.50	3774563.98	0.00169
480101.50	3774563.98	0.00202	480151.50	3774563.98	0.00243
480201.50	3774563.98	0.00293	480251.50	3774563.98	0.00357
480301.50	3774563.98	0.00431	480351.50	3774563.98	0.00515
480401.50	3774563.98	0.00601	480451.50	3774563.98	0.00664
480501.50	3774563.98	0.00687	480551.50	3774563.98	0.00649
480601.50	3774563.98	0.00604	480651.50	3774563.98	0.00591
480701.50	3774563.98	0.00578	480751.50	3774563.98	0.00553
480801.50	3774563.98	0.00526	480851.50	3774563.98	0.00486
480901.50	3774563.98	0.00439	480951.50	3774563.98	0.00392
481001.50	3774563.98	0.00347	481051.50	3774563.98	0.00307
481101.50	3774563.98	0.00271	481151.50	3774563.98	0.00240
481201.50	3774563.98	0.00213	481251.50	3774563.98	0.00190
481301.50	3774563.98	0.00171	481351.50	3774563.98	0.00154
481401.50	3774563.98	0.00139	481451.50	3774563.98	0.00127
481501.50	3774563.98	0.00116	481551.50		

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3774563.98        0.00107
         479301.50    3774613.98        0.00029                        479351.50
3774613.98        0.00031
         479401.50    3774613.98        0.00034                        479451.50
3774613.98        0.00037
         479501.50    3774613.98        0.00040                        479551.50
3774613.98        0.00044
         479601.50    3774613.98        0.00049                        479651.50
3774613.98        0.00054
         479701.50    3774613.98        0.00060                        479751.50
3774613.98        0.00068
         479801.50    3774613.98        0.00076                        479851.50
3774613.98        0.00087
         479901.50    3774613.98        0.00099                        479951.50
3774613.98        0.00114
         480001.50    3774613.98        0.00133                        480051.50
3774613.98        0.00156
         480101.50    3774613.98        0.00184                        480151.50
3774613.98        0.00217
         480201.50    3774613.98        0.00259                        480251.50
3774613.98        0.00307
         480301.50    3774613.98        0.00363                        480351.50
3774613.98        0.00423
         480401.50    3774613.98        0.00479                        480451.50
3774613.98        0.00517
         480501.50    3774613.98        0.00531                        480551.50
3774613.98        0.00514
         480601.50    3774613.98        0.00479                        480651.50
3774613.98        0.00447
         480701.50    3774613.98        0.00427                        480751.50
3774613.98        0.00403
         480801.50    3774613.98        0.00379                        480851.50
3774613.98        0.00353
         480901.50    3774613.98        0.00325                        480951.50
3774613.98        0.00296
         481001.50    3774613.98        0.00269                        481051.50
3774613.98        0.00242
         481101.50    3774613.98        0.00219                        481151.50
3774613.98        0.00197
         481201.50    3774613.98        0.00178                        481251.50
3774613.98        0.00161
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN       ***
```

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3774613.98	0.00146	481351.50	3774613.98	0.00133
481401.50	3774613.98	0.00122	481451.50	3774613.98	0.00112
481501.50	3774613.98	0.00104	481551.50	3774613.98	0.00096
479301.50	3774663.98	0.00028	479351.50	3774663.98	0.00031
479401.50	3774663.98	0.00033	479451.50	3774663.98	0.00036
479501.50	3774663.98	0.00039	479551.50	3774663.98	0.00043
479601.50	3774663.98	0.00047	479651.50	3774663.98	0.00052
479701.50	3774663.98	0.00058	479751.50	3774663.98	0.00065
479801.50	3774663.98	0.00073	479851.50	3774663.98	0.00082
479901.50	3774663.98	0.00093	479951.50	3774663.98	0.00107
480001.50	3774663.98	0.00123	480051.50	3774663.98	0.00143
480101.50	3774663.98	0.00166	480151.50	3774663.98	0.00194
480201.50	3774663.98	0.00227	480251.50	3774663.98	0.00264
480301.50	3774663.98	0.00305	480351.50	3774663.98	0.00347
480401.50	3774663.98	0.00384	480451.50	3774663.98	0.00409
480501.50	3774663.98	0.00415	480551.50	3774663.98	0.00405
480601.50	3774663.98	0.00380	480651.50	3774663.98	0.00353
480701.50	3774663.98	0.00329	480751.50	3774663.98	0.00310
480801.50	3774663.98	0.00290	480851.50	3774663.98	0.00271
480901.50	3774663.98	0.00251	480951.50		

3774663.98   0.00232
         481001.50   3774663.98   0.00213   481051.50
3774663.98   0.00195
         481101.50   3774663.98   0.00179   481151.50
3774663.98   0.00163
         481201.50   3774663.98   0.00149   481251.50
3774663.98   0.00137
         481301.50   3774663.98   0.00126   481351.50
3774663.98   0.00116
         481401.50   3774663.98   0.00107   481451.50
3774663.98   0.00099
         481501.50   3774663.98   0.00092   481551.50
3774663.98   0.00086
         479301.50   3774713.98   0.00028   479351.50
3774713.98   0.00030
         479401.50   3774713.98   0.00032   479451.50
3774713.98   0.00035
         479501.50   3774713.98   0.00038   479551.50
3774713.98   0.00041
         479601.50   3774713.98   0.00045   479651.50
3774713.98   0.00050
         479701.50   3774713.98   0.00055   479751.50
3774713.98   0.00062
         479801.50   3774713.98   0.00069   479851.50
3774713.98   0.00077
         479901.50   3774713.98   0.00087   479951.50
3774713.98   0.00099
         480001.50   3774713.98   0.00114   480051.50
3774713.98   0.00130
         480101.50   3774713.98   0.00150   480151.50
3774713.98   0.00173
         480201.50   3774713.98   0.00198   480251.50
3774713.98   0.00227
         480301.50   3774713.98   0.00257   480351.50
3774713.98   0.00286
         480401.50   3774713.98   0.00310   480451.50
3774713.98   0.00326
         480501.50   3774713.98   0.00332   480551.50
3774713.98   0.00323
         480601.50   3774713.98   0.00304   480651.50
3774713.98   0.00284

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN   ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480701.50	3774713.98	0.00263	480751.50	3774713.98	0.00246
480801.50	3774713.98	0.00230	480851.50	3774713.98	0.00215
480901.50	3774713.98	0.00200	480951.50	3774713.98	0.00187
481001.50	3774713.98	0.00173	481051.50	3774713.98	0.00160
481101.50	3774713.98	0.00148	481151.50	3774713.98	0.00137
481201.50	3774713.98	0.00126	481251.50	3774713.98	0.00117
481301.50	3774713.98	0.00108	481351.50	3774713.98	0.00101
481401.50	3774713.98	0.00094	481451.50	3774713.98	0.00087
481501.50	3774713.98	0.00082	479301.50	3774763.98	0.00027
479351.50	3774763.98	0.00029	479401.50	3774763.98	0.00031
479451.50	3774763.98	0.00034	479501.50	3774763.98	0.00037
479551.50	3774763.98	0.00040	479601.50	3774763.98	0.00044
479651.50	3774763.98	0.00048	479701.50	3774763.98	0.00053
479751.50	3774763.98	0.00059	479801.50	3774763.98	0.00065
479851.50	3774763.98	0.00073	479901.50	3774763.98	0.00082
479951.50	3774763.98	0.00092	480001.50	3774763.98	0.00104
480051.50	3774763.98	0.00119	480101.50	3774763.98	0.00135
480151.50	3774763.98	0.00153	480201.50	3774763.98	0.00174
480251.50	3774763.98	0.00195	480301.50	3774763.98	0.00217
480351.50	3774763.98	0.00237	480401.50		

3774763.98   0.00255
         480451.50   3774763.98   0.00266   480501.50
3774763.98   0.00269
         480551.50   3774763.98   0.00261   480601.50
3774763.98   0.00248
         480651.50   3774763.98   0.00231   480701.50
3774763.98   0.00215
         480751.50   3774763.98   0.00200   480801.50
3774763.98   0.00187
         480851.50   3774763.98   0.00175   480901.50
3774763.98   0.00164
         480951.50   3774763.98   0.00153   481001.50
3774763.98   0.00143
         481051.50   3774763.98   0.00133   481101.50
3774763.98   0.00124
         481151.50   3774763.98   0.00116   481201.50
3774763.98   0.00108
         481251.50   3774763.98   0.00101   481301.50
3774763.98   0.00094
         481351.50   3774763.98   0.00088   481401.50
3774763.98   0.00082
         481451.50   3774763.98   0.00077   481501.50
3774763.98   0.00073
         479301.50   3774813.98   0.00026   479351.50
3774813.98   0.00028
         479401.50   3774813.98   0.00030   479451.50
3774813.98   0.00033
         479501.50   3774813.98   0.00035   479551.50
3774813.98   0.00038
         479601.50   3774813.98   0.00042   479651.50
3774813.98   0.00046
         479701.50   3774813.98   0.00050   479751.50
3774813.98   0.00056
         479801.50   3774813.98   0.00062   479851.50
3774813.98   0.00068
         479901.50   3774813.98   0.00076   479951.50
3774813.98   0.00086
         480001.50   3774813.98   0.00096   480051.50
3774813.98   0.00108
         480101.50   3774813.98   0.00121   480151.50
3774813.98   0.00136

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN   ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480201.50	3774813.98	0.00152	480251.50	3774813.98	0.00169
480301.50	3774813.98	0.00185	480351.50	3774813.98	0.00199
480401.50	3774813.98	0.00212	480451.50	3774813.98	0.00219
480501.50	3774813.98	0.00221	480551.50	3774813.98	0.00216
480601.50	3774813.98	0.00205	480651.50	3774813.98	0.00192
480701.50	3774813.98	0.00178	480751.50	3774813.98	0.00166
480801.50	3774813.98	0.00155	480851.50	3774813.98	0.00145
480901.50	3774813.98	0.00137	480951.50	3774813.98	0.00128
481001.50	3774813.98	0.00120	481051.50	3774813.98	0.00113
481101.50	3774813.98	0.00106	481151.50	3774813.98	0.00099
481201.50	3774813.98	0.00093	481251.50	3774813.98	0.00087
481301.50	3774813.98	0.00082	481351.50	3774813.98	0.00077
481401.50	3774813.98	0.00073	481451.50	3774813.98	0.00069
481501.50	3774813.98	0.00065	479301.50	3774863.98	0.00026
479351.50	3774863.98	0.00027	479401.50	3774863.98	0.00029
479451.50	3774863.98	0.00032	479501.50	3774863.98	0.00034
479551.50	3774863.98	0.00037	479601.50	3774863.98	0.00040
479651.50	3774863.98	0.00044	479701.50	3774863.98	0.00048
479751.50	3774863.98	0.00053	479801.50	3774863.98	0.00058
479851.50	3774863.98	0.00064	479901.50		

3774863.98   0.00071
         479951.50   3774863.98   0.00079   480001.50
3774863.98   0.00088
         480051.50   3774863.98   0.00098   480101.50
3774863.98   0.00109
         480151.50   3774863.98   0.00121   480201.50
3774863.98   0.00134
         480251.50   3774863.98   0.00147   480301.50
3774863.98   0.00159
         480351.50   3774863.98   0.00169   480401.50
3774863.98   0.00178
         480451.50   3774863.98   0.00183   480501.50
3774863.98   0.00184
         480551.50   3774863.98   0.00181   480601.50
3774863.98   0.00172
         480651.50   3774863.98   0.00161   480701.50
3774863.98   0.00150
         480751.50   3774863.98   0.00140   480801.50
3774863.98   0.00131
         480851.50   3774863.98   0.00123   480901.50
3774863.98   0.00116
         480951.50   3774863.98   0.00109   481001.50
3774863.98   0.00102
         481051.50   3774863.98   0.00096   481101.50
3774863.98   0.00091
         481151.50   3774863.98   0.00086   481201.50
3774863.98   0.00081
         481251.50   3774863.98   0.00076   481301.50
3774863.98   0.00072
         481351.50   3774863.98   0.00068   481401.50
3774863.98   0.00065
         481451.50   3774863.98   0.00061   481501.50
3774863.98   0.00058
         479301.50   3774913.98   0.00025   479351.50
3774913.98   0.00027
         479401.50   3774913.98   0.00029   479451.50
3774913.98   0.00031
         479501.50   3774913.98   0.00033   479551.50
3774913.98   0.00036
         479601.50   3774913.98   0.00039   479651.50
3774913.98   0.00042

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN   ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479701.50	3774913.98	0.00046	479751.50	3774913.98	0.00050
479801.50	3774913.98	0.00055	479851.50	3774913.98	0.00060
479901.50	3774913.98	0.00067	479951.50	3774913.98	0.00074
480001.50	3774913.98	0.00081	480051.50	3774913.98	0.00090
480101.50	3774913.98	0.00099	480151.50	3774913.98	0.00108
480201.50	3774913.98	0.00118	480251.50	3774913.98	0.00128
480301.50	3774913.98	0.00138	480351.50	3774913.98	0.00145
480401.50	3774913.98	0.00151	480451.50	3774913.98	0.00156
480501.50	3774913.98	0.00155	480551.50	3774913.98	0.00153
480601.50	3774913.98	0.00146	480651.50	3774913.98	0.00138
480701.50	3774913.98	0.00128	480751.50	3774913.98	0.00120
480801.50	3774913.98	0.00112	480851.50	3774913.98	0.00106
480901.50	3774913.98	0.00099	480951.50	3774913.98	0.00094
481001.50	3774913.98	0.00089	481051.50	3774913.98	0.00084
481101.50	3774913.98	0.00079	481151.50	3774913.98	0.00075
481201.50	3774913.98	0.00071	481251.50	3774913.98	0.00067
481301.50	3774913.98	0.00064	481351.50	3774913.98	0.00061
481401.50	3774913.98	0.00058	481451.50	3774913.98	0.00055
481501.50	3774913.98	0.00052	479301.50	3774963.98	0.00024
479351.50	3774963.98	0.00026	479401.50		

3774963.98   0.00028
         479451.50   3774963.98   0.00030   479501.50
3774963.98   0.00032
         479551.50   3774963.98   0.00034   479601.50
3774963.98   0.00037
         479651.50   3774963.98   0.00040   479701.50
3774963.98   0.00043
         479751.50   3774963.98   0.00047   479801.50
3774963.98   0.00052
         479851.50   3774963.98   0.00057   479901.50
3774963.98   0.00062
         479951.50   3774963.98   0.00068   480001.50
3774963.98   0.00075
         480051.50   3774963.98   0.00082   480101.50
3774963.98   0.00089
         480151.50   3774963.98   0.00097   480201.50
3774963.98   0.00105
         480251.50   3774963.98   0.00113   480301.50
3774963.98   0.00120
         480351.50   3774963.98   0.00126   480401.50
3774963.98   0.00130
         480451.50   3774963.98   0.00133   480501.50
3774963.98   0.00133
         480551.50   3774963.98   0.00130   480601.50
3774963.98   0.00126
         480651.50   3774963.98   0.00119   480701.50
3774963.98   0.00111
         480751.50   3774963.98   0.00104   480801.50
3774963.98   0.00098
         480851.50   3774963.98   0.00092   480901.50
3774963.98   0.00086
         480951.50   3774963.98   0.00081   481001.50
3774963.98   0.00077
         481051.50   3774963.98   0.00073   481101.50
3774963.98   0.00070
         481151.50   3774963.98   0.00066   481201.50
3774963.98   0.00063
         481251.50   3774963.98   0.00060   481301.50
3774963.98   0.00057
         481351.50   3774963.98   0.00054   481401.50
3774963.98   0.00052

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN   ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481451.50	3774963.98	0.00050	480801.50	3775013.98	0.00086
480851.50	3775013.98	0.00081	480901.50	3775013.98	0.00076
480951.50	3775013.98	0.00072	481001.50	3775013.98	0.00068
481051.50	3775013.98	0.00065	481101.50	3775013.98	0.00062
481151.50	3775013.98	0.00059	481201.50	3775013.98	0.00056
481251.50	3775013.98	0.00054	481301.50	3775013.98	0.00051
481351.50	3775013.98	0.00049	481401.50	3775013.98	0.00047
481451.50	3775013.98	0.00045	480801.50	3775063.98	0.00076
480851.50	3775063.98	0.00072	480901.50	3775063.98	0.00067
480951.50	3775063.98	0.00064	481001.50	3775063.98	0.00061
481051.50	3775063.98	0.00058	481101.50	3775063.98	0.00055
481151.50	3775063.98	0.00053	481201.50	3775063.98	0.00050
481251.50	3775063.98	0.00048	481301.50	3775063.98	0.00046
481351.50	3775063.98	0.00044	481401.50	3775063.98	0.00043
481451.50	3775063.98	0.00041	480801.50	3775113.98	0.00068
480851.50	3775113.98	0.00064	480901.50	3775113.98	0.00060
480951.50	3775113.98	0.00057	481001.50	3775113.98	0.00054
481051.50	3775113.98	0.00052	481101.50	3775113.98	0.00050
481151.50	3775113.98	0.00047	481201.50	3775113.98	0.00046
481251.50	3775113.98	0.00044	481301.50		

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3775113.98        0.00042
         481351.50    3775113.98        0.00040                        481401.50
3775113.98        0.00039
         481451.50    3775113.98        0.00037                        480801.50
3775163.98        0.00061
         480851.50    3775163.98        0.00058                        480901.50
3775163.98        0.00055
         480951.50    3775163.98        0.00052                        481001.50
3775163.98        0.00049
         481051.50    3775163.98        0.00047                        481101.50
3775163.98        0.00045
         481151.50    3775163.98        0.00043                        481201.50
3775163.98        0.00041
         481251.50    3775163.98        0.00040                        481301.50
3775163.98        0.00038
         481351.50    3775163.98        0.00037                        481401.50
3775163.98        0.00036
         481451.50    3775163.98        0.00034                        480801.50
3775213.98        0.00055
         480851.50    3775213.98        0.00052                        480901.50
3775213.98        0.00049
         480951.50    3775213.98        0.00047                        481001.50
3775213.98        0.00045
         481051.50    3775213.98        0.00043                        481101.50
3775213.98        0.00041
         481151.50    3775213.98        0.00039                        481201.50
3775213.98        0.00038
         481251.50    3775213.98        0.00036                        481301.50
3775213.98        0.00035
         481351.50    3775213.98        0.00034                        481401.50
3775213.98        0.00033
         481451.50    3775213.98        0.00032                        480801.50
3775263.98        0.00050
         480851.50    3775263.98        0.00048                        480901.50
3775263.98        0.00045
         480951.50    3775263.98        0.00043                        481001.50
3775263.98        0.00041
         481051.50    3775263.98        0.00039                        481101.50
3775263.98        0.00037
         481151.50    3775263.98        0.00036                        481201.50
3775263.98        0.00035
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN       ***
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INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481251.50	3775263.98	0.00034	481301.50	3775263.98	0.00032
481351.50	3775263.98	0.00031	481401.50	3775263.98	0.00030
481451.50	3775263.98	0.00029	480801.50	3775313.98	0.00046
480851.50	3775313.98	0.00044	480901.50	3775313.98	0.00041
480951.50	3775313.98	0.00039	481001.50	3775313.98	0.00038
481051.50	3775313.98	0.00036	481101.50	3775313.98	0.00035
481151.50	3775313.98	0.00033	481201.50	3775313.98	0.00032
481251.50	3775313.98	0.00031	481301.50	3775313.98	0.00030
481351.50	3775313.98	0.00029	481401.50	3775313.98	0.00028
480801.50	3775363.98	0.00042	480851.50	3775363.98	0.00040
480901.50	3775363.98	0.00038	480951.50	3775363.98	0.00036
481001.50	3775363.98	0.00035	481051.50	3775363.98	0.00033
481101.50	3775363.98	0.00032	481151.50	3775363.98	0.00031
481201.50	3775363.98	0.00030	481251.50	3775363.98	0.00029
481301.50	3775363.98	0.00028	481351.50	3775363.98	0.00027
481401.50	3775363.98	0.00026	480801.50	3775413.98	0.00039
480851.50	3775413.98	0.00037	480901.50	3775413.98	0.00035
480951.50	3775413.98	0.00034	481001.50	3775413.98	0.00032
481051.50	3775413.98	0.00031	481101.50	3775413.98	0.00030
481151.50	3775413.98	0.00029	481201.50		

3775413.98   0.00028
         481251.50   3775413.98   0.00027   481301.50
3775413.98   0.00026
         481351.50   3775413.98   0.00025   481401.50
3775413.98   0.00025
         480801.50   3775463.98   0.00036   480851.50
3775463.98   0.00034
         480901.50   3775463.98   0.00033   480951.50
3775463.98   0.00031
         481001.50   3775463.98   0.00030   481051.50
3775463.98   0.00029
         481101.50   3775463.98   0.00028   481151.50
3775463.98   0.00027
         481201.50   3775463.98   0.00026   481251.50
3775463.98   0.00025
         481301.50   3775463.98   0.00024   481351.50
3775463.98   0.00024
         481401.50   3775463.98   0.00023   480801.50
3775513.98   0.00034
         480851.50   3775513.98   0.00032   480901.50
3775513.98   0.00031
         480951.50   3775513.98   0.00029   481001.50
3775513.98   0.00028
         481051.50   3775513.98   0.00027   481101.50
3775513.98   0.00026
         481151.50   3775513.98   0.00025   481201.50
3775513.98   0.00024
         481251.50   3775513.98   0.00024   481301.50
3775513.98   0.00023
         481351.50   3775513.98   0.00022   481401.50
3775513.98   0.00022
         480801.50   3775563.98   0.00031   480851.50
3775563.98   0.00030
         480901.50   3775563.98   0.00029   480951.50
3775563.98   0.00027
         481001.50   3775563.98   0.00026   481051.50
3775563.98   0.00025
         481101.50   3775563.98   0.00024   481151.50
3775563.98   0.00024
         481201.50   3775563.98   0.00023   481251.50
3775563.98   0.00022

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN   ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3775563.98	0.00022	481351.50	3775563.98	0.00021
481401.50	3775563.98	0.00021	479332.46	3774240.22	0.00032
479382.46	3774240.22	0.00035	479432.46	3774240.22	0.00038
479482.46	3774240.22	0.00041	479532.46	3774240.22	0.00046
479582.46	3774240.22	0.00050	479632.46	3774240.22	0.00056
479682.46	3774240.22	0.00063	479732.46	3774240.22	0.00071
479782.46	3774240.22	0.00081	479832.46	3774240.22	0.00093
479882.46	3774240.22	0.00108	479932.46	3774240.22	0.00126
479332.46	3774290.22	0.00032	479382.46	3774290.22	0.00035
479432.46	3774290.22	0.00038	479482.46	3774290.22	0.00042
479532.46	3774290.22	0.00046	479582.46	3774290.22	0.00051
479632.46	3774290.22	0.00057	479682.46	3774290.22	0.00064
479732.46	3774290.22	0.00072	479782.46	3774290.22	0.00083
479832.46	3774290.22	0.00095	479882.46	3774290.22	0.00110
479932.46	3774290.22	0.00130	479332.46	3774340.22	0.00032
479382.46	3774340.22	0.00035	479432.46	3774340.22	0.00038
479482.46	3774340.22	0.00042	479532.46	3774340.22	0.00046
479582.46	3774340.22	0.00051	479632.46	3774340.22	0.00057
479682.46	3774340.22	0.00064	479732.46	3774340.22	0.00073
479782.46	3774340.22	0.00083	479832.46		

3774340.22   0.00096
         479882.46   3774340.22   0.00112   479932.46
3774340.22   0.00131
         479332.46   3774390.22   0.00032   479382.46
3774390.22   0.00035
         479432.46   3774390.22   0.00038   479482.46
3774390.22   0.00042
         479532.46   3774390.22   0.00046   479582.46
3774390.22   0.00051
         479632.46   3774390.22   0.00057   479682.46
3774390.22   0.00064
         479732.46   3774390.22   0.00073   479782.46
3774390.22   0.00083
         479832.46   3774390.22   0.00096   479882.46
3774390.22   0.00111
         479932.46   3774390.22   0.00131

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0002111   , L0002112
, L0002113   , L0002114   , L0002115   ,
                  L0002116   , L0002117   , L0002118   , L0002119   , L0002120
, L0002121   , L0002122   , L0002123   ,
                  L0002124   , L0002125   , L0002126   , L0002127   , L0002128
, L0002129   , L0002130   , L0002131   ,
                  L0002132   , L0002133   , L0002134   , L0002135   , L0002136
, L0002137   , L0002138   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         480415.97   3774200.25   122.18564   480386.35
3774201.62   99.46358
         480364.52   3774200.25   81.34598   480441.34
3774196.20   123.78241
         480332.65   3774203.34   64.83094   480281.98

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3774208.10       47.12447
         480259.39    3774210.95       41.62975                       480179.23
3774215.23       28.12140
         479777.13    3774155.68        8.39895                       479903.88
3774153.05       11.06691
         479888.73    3774072.72       10.11266                       480286.74
3774147.78       39.33439
         480415.64    3774088.13       46.92571                       480408.03
3774009.17       31.67691
         480445.38    3774004.65       32.98747                       480447.28
3774028.67       36.86938
         480276.83    3774266.75       52.44839                       480151.33
3774266.75       26.18916
         480135.30    3774266.75       24.46187                       479301.50
3774413.98        3.99346
         479351.50    3774413.98        4.26441                       479401.50
3774413.98        4.56229
         479451.50    3774413.98        4.89785                       479501.50
3774413.98        5.27708
         479551.50    3774413.98        5.70327                       479601.50
3774413.98        6.19582
         479651.50    3774413.98        6.75505                       479701.50
3774413.98        7.40985
         479751.50    3774413.98        8.16679                       479801.50
3774413.98        9.06048
         479851.50    3774413.98       10.13891                       479901.50
3774413.98       11.43300
         479951.50    3774413.98       13.03739                       480001.50
3774413.98       15.02999
         480051.50    3774413.98       17.59336                       480101.50
3774413.98       20.96231
         480151.50    3774413.98       25.53076                       480201.50
3774413.98       32.03596
         480251.50    3774413.98       41.70365                       480301.50
3774413.98       57.26196
         480351.50    3774413.98       84.31880                       480401.50
3774413.98      133.64384
         480451.50    3774413.98      210.03584                       480501.50
3774413.98      304.27509
         480551.50    3774413.98      367.38032                       480601.50
3774413.98      353.54625
         480651.50    3774413.98      271.78582                       480701.50
3774413.98      187.07206
         480751.50    3774413.98      120.84419                       480801.50
3774413.98       80.16720
         480851.50    3774413.98       58.31032                       480901.50
3774413.98       45.33908
         480951.50    3774413.98       36.96025                       481001.50
3774413.98       31.17485
         481051.50    3774413.98       27.20333                       481101.50
3774413.98       24.13219
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         481151.50    3774413.98       22.36122                       481201.50
3774413.98       21.08989
         481251.50    3774413.98       19.62546                       481301.50
3774413.98       18.30866
         481351.50    3774413.98       17.18287                       481401.50
3774413.98       16.05380
         481451.50    3774413.98       15.08897                       479301.50
3774463.98        3.97001
         479351.50    3774463.98        4.23728                       479401.50
3774463.98        4.53075
         479451.50    3774463.98        4.86357                       479501.50
3774463.98        5.23346
         479551.50    3774463.98        5.65531                       479601.50
3774463.98        6.13346
         479651.50    3774463.98        6.67944                       479701.50
3774463.98        7.31695
         479751.50    3774463.98        8.05137                       479801.50
3774463.98        8.92403
         479851.50    3774463.98        9.95190                       479901.50
3774463.98       11.19240
         479951.50    3774463.98       12.70930                       480001.50
3774463.98       14.57869
         480051.50    3774463.98       16.96136                       480101.50
3774463.98       20.01078
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:46:25

                                   PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
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3774513.98       50.89319
         480401.50    3774513.98       63.66428                       480451.50
3774513.98       77.60829
         480501.50    3774513.98       90.05533                       480551.50
3774513.98       96.78536
         480601.50    3774513.98       95.14221                       480651.50
3774513.98       85.98492
         480701.50    3774513.98       73.01189                       480751.50
3774513.98       59.94602
         480801.50    3774513.98       48.84606                       480851.50
3774513.98       40.17165
         480901.50    3774513.98       33.57434                       480951.50
3774513.98       28.62997
         481001.50    3774513.98       24.95224                       481051.50
3774513.98       22.02131
         481101.50    3774513.98       19.94285                       481151.50
3774513.98       18.32757
         481201.50    3774513.98       16.87093                       481251.50
3774513.98       15.63930
         481301.50    3774513.98       14.57148                       481351.50
3774513.98       13.60531
         481401.50    3774513.98       12.74306                       481451.50
3774513.98       11.92051
         481501.50    3774513.98       11.15198                       481551.50
3774513.98       10.43405
         479301.50    3774563.98        3.89790                       479351.50
3774563.98        4.15222
         479401.50    3774563.98        4.43272                       479451.50
3774563.98        4.74801
         479501.50    3774563.98        5.09709                       479551.50
3774563.98        5.49350
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                   PAGE  78
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479601.50	3774563.98	5.93931	479651.50	3774563.98	6.45098
479701.50	3774563.98	7.02989	479751.50	3774563.98	7.69995
479801.50	3774563.98	8.47996	479851.50	3774563.98	9.38701
479901.50	3774563.98	10.46938	479951.50	3774563.98	11.74739
480001.50	3774563.98	13.29744	480051.50	3774563.98	15.17417
480101.50	3774563.98	17.49664	480151.50	3774563.98	20.35692
480201.50	3774563.98	23.92636	480251.50	3774563.98	28.41841
480301.50	3774563.98	33.92813	480351.50	3774563.98	40.54273
480401.50	3774563.98	47.96035	480451.50	3774563.98	55.36725
480501.50	3774563.98	61.44610	480551.50	3774563.98	64.57291
480601.50	3774563.98	63.87443	480651.50	3774563.98	59.60629
480701.50	3774563.98	53.12430	480751.50	3774563.98	45.96559
480801.50	3774563.98	39.29422	480851.50	3774563.98	33.56977
480901.50	3774563.98	28.87484	480951.50	3774563.98	25.12363
481001.50	3774563.98	22.15010	481051.50	3774563.98	19.80515
481101.50	3774563.98	17.98197	481151.50	3774563.98	16.41373
481201.50	3774563.98	15.09644	481251.50	3774563.98	13.98804
481301.50	3774563.98	13.02041	481351.50	3774563.98	12.16489
481401.50	3774563.98	11.38689	481451.50	3774563.98	10.63378
481501.50	3774563.98	9.99106	481551.50	3774563.98	9.35301
479301.50	3774613.98	3.85048	479351.50	3774613.98	4.09531

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         479401.50    3774613.98        4.36887                       479451.50
3774613.98        4.67100
         479501.50    3774613.98        5.00695                       479551.50
3774613.98        5.38789
         479601.50    3774613.98        5.81191                       479651.50
3774613.98        6.29773
         479701.50    3774613.98        6.84417                       479751.50
3774613.98        7.47659
         479801.50    3774613.98        8.19810                       479851.50
3774613.98        9.04021
         479901.50    3774613.98       10.02025                       479951.50
3774613.98       11.16927
         480001.50    3774613.98       12.54162                       480051.50
3774613.98       14.16351
         480101.50    3774613.98       16.12334                       480151.50
3774613.98       18.45981
         480201.50    3774613.98       21.27022                       480251.50
3774613.98       24.61965
         480301.50    3774613.98       28.52159                       480351.50
3774613.98       32.88136
         480401.50    3774613.98       37.43530                       480451.50
3774613.98       41.72341
         480501.50    3774613.98       45.02973                       480551.50
3774613.98       46.69567
         480601.50    3774613.98       46.37133                       480651.50
3774613.98       44.12318
         480701.50    3774613.98       40.59083                       480751.50
3774613.98       36.38810
         480801.50    3774613.98       32.20176                       480851.50
3774613.98       28.31617
         480901.50    3774613.98       24.96317                       480951.50
3774613.98       22.07947
         481001.50    3774613.98       19.71322                       481051.50
3774613.98       17.72334
         481101.50    3774613.98       16.09179                       481151.50
3774613.98       14.73611
         481201.50    3774613.98       13.56398                       481251.50
3774613.98       12.57310
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***       04/13/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      17:46:25

                                   PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                L0002116    , L0002117    , L0002118    , L0002119    , L0002120
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, L0002121    , L0002122    , L0002123    ,
                L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         481301.50    3774613.98       11.71496                       481351.50
3774613.98       10.93874
         481401.50    3774613.98       10.22982                       481451.50
3774613.98        9.57514
         481501.50    3774613.98        8.96182                       481551.50
3774613.98        8.42235
         479301.50    3774663.98        3.79366                       479351.50
3774663.98        4.02990
         479401.50    3774663.98        4.29371                       479451.50
3774663.98        4.58288
         479501.50    3774663.98        4.90647                       479551.50
3774663.98        5.26659
         479601.50    3774663.98        5.67018                       479651.50
3774663.98        6.12574
         479701.50    3774663.98        6.63718                       479751.50
3774663.98        7.22516
         479801.50    3774663.98        7.88964                       479851.50
3774663.98        8.65917
         479901.50    3774663.98        9.54039                       479951.50
3774663.98       10.56093
         480001.50    3774663.98       11.75940                       480051.50
3774663.98       13.15163
         480101.50    3774663.98       14.78173                       480151.50
3774663.98       16.67299
         480201.50    3774663.98       18.87957                       480251.50
3774663.98       21.37887
         480301.50    3774663.98       24.17211                       480351.50
3774663.98       27.12591
         480401.50    3774663.98       30.07346                       480451.50
3774663.98       32.70332
         480501.50    3774663.98       34.66217                       480551.50
3774663.98       35.64945
         480601.50    3774663.98       35.47493                       480651.50
3774663.98       34.22374
         480701.50    3774663.98       32.12583                       480751.50
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3774663.98 29.54689
  480801.50 3774663.98 26.80619 480851.50
3774663.98 24.13806
  480901.50 3774663.98 21.64645 480951.50
3774663.98 19.47907
  481001.50 3774663.98 17.53270 481051.50
3774663.98 15.80357
  481101.50 3774663.98 14.44391 481151.50
3774663.98 13.25414
  481201.50 3774663.98 12.26880 481251.50
3774663.98 11.37943
  481301.50 3774663.98 10.62829 481351.50
3774663.98 9.92147
  481401.50 3774663.98 9.25667 481451.50
3774663.98 8.69453
  481501.50 3774663.98 8.12561 481551.50
3774663.98 7.64428
  479301.50 3774713.98 3.72980 479351.50
3774713.98 3.95764
  479401.50 3774713.98 4.20970 479451.50
3774713.98 4.48517
  479501.50 3774713.98 4.79427 479551.50
3774713.98 5.13326
  479601.50 3774713.98 5.51597 479651.50
3774713.98 5.93916
  479701.50 3774713.98 6.41851 479751.50
3774713.98 6.95639
  479801.50 3774713.98 7.56530 479851.50
3774713.98 8.25999
  479901.50 3774713.98 9.04609 479951.50
3774713.98 9.95321
  480001.50 3774713.98 10.98191 480051.50
3774713.98 12.16481
  480101.50 3774713.98 13.51437 480151.50
3774713.98 15.04894
  480201.50 3774713.98 16.76490 480251.50
3774713.98 18.66305
  480301.50 3774713.98 20.67957 480351.50
3774713.98 22.74584
  480401.50 3774713.98 24.72293 480451.50
3774713.98 26.42745
  480501.50 3774713.98 27.67129 480551.50
3774713.98 28.29426
  480601.50 3774713.98 28.20602 480651.50
3774713.98 27.45965

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 , L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 , L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 , L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
480701.50	3774713.98	26.14619	480751.50	3774713.98	24.49010
480801.50	3774713.98	22.64130	480851.50	3774713.98	20.76548
480901.50	3774713.98	18.89309	480951.50	3774713.98	17.17133
481001.50	3774713.98	15.52561	481051.50	3774713.98	14.18498
481101.50	3774713.98	13.04591	481151.50	3774713.98	12.00933
481201.50	3774713.98	11.16388	481251.50	3774713.98	10.37574
481301.50	3774713.98	9.70507	481351.50	3774713.98	9.05044
481401.50	3774713.98	8.44420	481451.50	3774713.98	7.93894
481501.50	3774713.98	7.41336	479301.50	3774763.98	3.65991
479351.50	3774763.98	3.88001	479401.50	3774763.98	4.11799
479451.50	3774763.98	4.38083	479501.50	3774763.98	4.67167
479551.50	3774763.98	4.99052	479601.50	3774763.98	5.34858
479651.50	3774763.98	5.74199	479701.50	3774763.98	6.18455
479751.50	3774763.98	6.67714	479801.50	3774763.98	7.23394

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         479851.50    3774763.98        7.85346                    479901.50
3774763.98        8.55065
         479951.50    3774763.98        9.34413                    480001.50
3774763.98       10.22915
         480051.50    3774763.98       11.23230                    480101.50
3774763.98       12.34364
         480151.50    3774763.98       13.58166                    480201.50
3774763.98       14.93233
         480251.50    3774763.98       16.37569                    480301.50
3774763.98       17.86506
         480351.50    3774763.98       19.34810                    480401.50
3774763.98       20.71964
         480451.50    3774763.98       21.87677                    480501.50
3774763.98       22.70868
         480551.50    3774763.98       23.11749                    480601.50
3774763.98       23.08775
         480651.50    3774763.98       22.60185                    480701.50
3774763.98       21.76227
         480751.50    3774763.98       20.64018                    480801.50
3774763.98       19.36197
         480851.50    3774763.98       18.02400                    480901.50
3774763.98       16.61613
         480951.50    3774763.98       15.19119                    481001.50
3774763.98       13.92846
         481051.50    3774763.98       12.79908                    481101.50
3774763.98       11.83062
         481151.50    3774763.98       10.95719                    481201.50
3774763.98       10.16170
         481251.50    3774763.98        9.49449                    481301.50
3774763.98        8.87067
         481351.50    3774763.98        8.27912                    481401.50
3774763.98        7.73627
         481451.50    3774763.98        7.24905                    481501.50
3774763.98        6.78754
         479301.50    3774813.98        3.58488                    479351.50
3774813.98        3.79451
         479401.50    3774813.98        4.02032                    479451.50
3774813.98        4.27008
         479501.50    3774813.98        4.54236                    479551.50
3774813.98        4.84368
         479601.50    3774813.98        5.17413                    479651.50
3774813.98        5.53811
         479701.50    3774813.98        5.94524                    479751.50
3774813.98        6.39311
         479801.50    3774813.98        6.89573                    479851.50
3774813.98        7.44900
         479901.50    3774813.98        8.06693                    479951.50
3774813.98        8.75532
         480001.50    3774813.98        9.51407                    480051.50
3774813.98       10.35960
         480101.50    3774813.98       11.27791                    480151.50
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0002111   , L0002112
, L0002113   , L0002114   , L0002115   ,
                  L0002116   , L0002117   , L0002118   , L0002119   , L0002120
, L0002121   , L0002122   , L0002123   ,
                  L0002124   , L0002125   , L0002126   , L0002127   , L0002128
, L0002129   , L0002130   , L0002131   ,
                  L0002132   , L0002133   , L0002134   , L0002135   , L0002136
, L0002137   , L0002138   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         480201.50   3774813.98   13.34696   480251.50
3774813.98   14.45937
         480301.50   3774813.98   15.57840   480351.50
3774813.98   16.66615
         480401.50   3774813.98   17.64929   480451.50
3774813.98   18.46336
         480501.50   3774813.98   19.04371   480551.50
3774813.98   19.33419
         480601.50   3774813.98   19.31669   480651.50
3774813.98   19.00368
         480701.50   3774813.98   18.42528   480751.50
3774813.98   17.65792
         480801.50   3774813.98   16.75418   480851.50
3774813.98   15.69084
         480901.50   3774813.98   14.70280   480951.50
3774813.98   13.55950
         481001.50   3774813.98   12.42868   481051.50
3774813.98   11.53739
         481101.50   3774813.98   10.72912   481151.50
3774813.98   9.98656
         481201.50   3774813.98   9.34532   481251.50

3774813.98 8.72156
481301.50 3774813.98 8.19017 481351.50
3774813.98 7.62558
481401.50 3774813.98 7.12374 481451.50
3774813.98 6.64948
481501.50 3774813.98 6.27056 479301.50
3774863.98 3.50561
479351.50 3774863.98 3.70455 479401.50
3774863.98 3.91798
479451.50 3774863.98 4.15391 479501.50
3774863.98 4.40839
479551.50 3774863.98 4.69013 479601.50
3774863.98 4.99540
479651.50 3774863.98 5.33067 479701.50
3774863.98 5.70338
479751.50 3774863.98 6.10909 479801.50
3774863.98 6.56095
479851.50 3774863.98 7.05316 479901.50
3774863.98 7.59670
479951.50 3774863.98 8.19454 480001.50
3774863.98 8.84869
480051.50 3774863.98 9.55653 480101.50
3774863.98 10.31671
480151.50 3774863.98 11.13049 480201.50
3774863.98 11.98000
480251.50 3774863.98 12.84836 480301.50
3774863.98 13.70307
480351.50 3774863.98 14.51815 480401.50
3774863.98 15.24233
480451.50 3774863.98 15.83387 480501.50
3774863.98 16.25280
480551.50 3774863.98 16.46648 480601.50
3774863.98 16.46076
480651.50 3774863.98 16.24874 480701.50
3774863.98 15.75074
480751.50 3774863.98 15.27066 480801.50
3774863.98 14.64092
480851.50 3774863.98 13.84058 480901.50
3774863.98 13.01457
480951.50 3774863.98 12.01757 481001.50
3774863.98 11.21688
481051.50 3774863.98 10.45904 481101.50
3774863.98 9.77247
481151.50 3774863.98 9.14579 481201.50
3774863.98 8.60356
481251.50 3774863.98 8.02926 481301.50
3774863.98 7.47932
481351.50 3774863.98 6.98960 481401.50
3774863.98 6.54614
481451.50 3774863.98 6.14213 481501.50
3774863.98 5.75816

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 , L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 , L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 , L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479301.50	3774913.98	3.42299	479351.50	3774913.98	3.61116
479401.50	3774913.98	3.81223	479451.50	3774913.98	4.03358
479501.50	3774913.98	4.27118	479551.50	3774913.98	4.53292
479601.50	3774913.98	4.81483	479651.50	3774913.98	5.12250
479701.50	3774913.98	5.46217	479751.50	3774913.98	5.82893
479801.50	3774913.98	6.23392	479851.50	3774913.98	6.67065
479901.50	3774913.98	7.14776	479951.50	3774913.98	7.66630
480001.50	3774913.98	8.22622	480051.50	3774913.98	8.82331
480101.50	3774913.98	9.45489	480151.50	3774913.98	10.12101
480201.50	3774913.98	10.79996	480251.50	3774913.98	11.48710
480301.50	3774913.98	12.15011	480351.50	3774913.98	12.77283

480401.50 3774913.98 13.31793 480451.50
3774913.98 13.76038
480501.50 3774913.98 14.06893 480551.50
3774913.98 14.23443
480601.50 3774913.98 14.23720 480651.50
3774913.98 14.08484
480701.50 3774913.98 13.71941 480751.50
3774913.98 13.32616
480801.50 3774913.98 12.85223 480851.50
3774913.98 12.29762
480901.50 3774913.98 11.59159 480951.50
3774913.98 10.83451
481001.50 3774913.98 10.17573 481051.50
3774913.98 9.52697
481101.50 3774913.98 8.91381 481151.50
3774913.98 8.42183
481201.50 3774913.98 7.88122 481251.50
3774913.98 7.41797
481301.50 3774913.98 6.94799 481351.50
3774913.98 6.48099
481401.50 3774913.98 6.04126 481451.50
3774913.98 5.63689
481501.50 3774913.98 5.28915 479301.50
3774963.98 3.33787
479351.50 3774963.98 3.51535 479401.50
3774963.98 3.70421
479451.50 3774963.98 3.91128 479501.50
3774963.98 4.13248
479551.50 3774963.98 4.37492 479601.50
3774963.98 4.63452
479651.50 3774963.98 4.91607 479701.50
3774963.98 5.22482
479751.50 3774963.98 5.55715 479801.50
3774963.98 5.91777
479851.50 3774963.98 6.30463 479901.50
3774963.98 6.72300
479951.50 3774963.98 7.17267 480001.50
3774963.98 7.65237
480051.50 3774963.98 8.15720 480101.50
3774963.98 8.68381
480151.50 3774963.98 9.23160 480201.50
3774963.98 9.78135
480251.50 3774963.98 10.33002 480301.50
3774963.98 10.85177
480351.50 3774963.98 11.33592 480401.50
3774963.98 11.75527
480451.50 3774963.98 12.09336 480501.50
3774963.98 12.32881
480551.50 3774963.98 12.45179 480601.50
3774963.98 12.46511
480651.50 3774963.98 12.35659 480701.50

3774963.98   12.07767
         480751.50   3774963.98   11.68771   480801.50
3774963.98   11.41950
         480851.50   3774963.98   10.95698   480901.50
3774963.98   10.26143
         480951.50   3774963.98   9.70180   481001.50
3774963.98   9.15966
         481051.50   3774963.98   8.63118   481101.50
3774963.98   8.17191
         481151.50   3774963.98   7.68589   481201.50
3774963.98   7.25146
         481251.50   3774963.98   6.78194   481301.50
3774963.98   6.34823
         481351.50   3774963.98   5.93713   481401.50
3774963.98   5.55572

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0002111   , L0002112
, L0002113   , L0002114   , L0002115   ,
                  L0002116   , L0002117   , L0002118   , L0002119   , L0002120
, L0002121   , L0002122   , L0002123   ,
                  L0002124   , L0002125   , L0002126   , L0002127   , L0002128
, L0002129   , L0002130   , L0002131   ,
                  L0002132   , L0002133   , L0002134   , L0002135   , L0002136
, L0002137   , L0002138   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         481451.50   3774963.98   5.20397   480801.50
3775013.98   10.11315
         480851.50   3775013.98   9.64310   480901.50
3775013.98   9.22434
         480951.50   3775013.98   8.79150   481001.50
3775013.98   8.34479
         481051.50   3775013.98   7.89594   481101.50

3775013.98 7.45675
481151.50 3775013.98 7.07791 481201.50
3775013.98 6.62859
481251.50 3775013.98 6.20175 481301.50
3775013.98 5.79931
481351.50 3775013.98 5.42350 481401.50
3775013.98 5.11845
481451.50 3775013.98 4.80959 480801.50
3775063.98 8.96981
480851.50 3775063.98 8.65889 480901.50
3775063.98 8.30516
480951.50 3775063.98 7.94566 481001.50
3775063.98 7.59166
481051.50 3775063.98 7.22097 481101.50
3775063.98 6.84889
481151.50 3775063.98 6.47497 481201.50
3775063.98 6.10182
481251.50 3775063.98 5.67861 481301.50
3775063.98 5.30929
481351.50 3775063.98 4.96585 481401.50
3775063.98 4.65331
481451.50 3775063.98 4.44814 480801.50
3775113.98 8.09685
480851.50 3775113.98 7.80788 480901.50
3775113.98 7.51086
480951.50 3775113.98 7.22895 481001.50
3775113.98 6.92788
481051.50 3775113.98 6.58574 481101.50
3775113.98 6.22620
481151.50 3775113.98 5.87963 481201.50
3775113.98 5.53667
481251.50 3775113.98 5.18209 481301.50
3775113.98 4.84980
481351.50 3775113.98 4.56202 481401.50
3775113.98 4.29454
481451.50 3775113.98 4.10246 480801.50
3775163.98 7.33989
480851.50 3775163.98 7.09699 480901.50
3775163.98 6.84108
480951.50 3775163.98 6.60176 481001.50
3775163.98 6.31806
481051.50 3775163.98 5.99313 481101.50
3775163.98 5.66851
481151.50 3775163.98 5.31697 481201.50
3775163.98 5.03907
481251.50 3775163.98 4.71950 481301.50
3775163.98 4.44363
481351.50 3775163.98 4.20136 481401.50
3775163.98 3.97002
481451.50 3775163.98 3.77261 480801.50
3775213.98 6.65374

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         480851.50    3775213.98        6.44628                      480901.50
3775213.98        6.23877
         480951.50    3775213.98        6.00767                      481001.50
3775213.98        5.76144
         481051.50    3775213.98        5.49845                      481101.50
3775213.98        5.17048
         481151.50    3775213.98        4.86807                      481201.50
3775213.98        4.59929
         481251.50    3775213.98        4.29647                      481301.50
3775213.98        4.08952
         481351.50    3775213.98        3.88270                      481401.50
3775213.98        3.64573
         481451.50    3775213.98        3.44990                      480801.50
3775263.98        6.05811
         480851.50    3775263.98        5.88665                      480901.50
3775263.98        5.68457
         480951.50    3775263.98        5.45323                      481001.50
3775263.98        5.26887
         481051.50    3775263.98        4.97281                      481101.50
3775263.98        4.70269
         481151.50    3775263.98        4.44203                      481201.50
3775263.98        4.16841
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***       04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:46:25

                                  PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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         481251.50    3775263.98        3.95156                    481301.50
3775263.98        3.75776
         481351.50    3775263.98        3.53885                    481401.50
3775263.98        3.37686
         481451.50    3775263.98        3.22302                    480801.50
3775313.98        5.56957
         480851.50    3775313.98        5.40431                    480901.50
3775313.98        5.17594
         480951.50    3775313.98        4.96170                    481001.50
3775313.98        4.70974
         481051.50    3775313.98        4.51425                    481101.50
3775313.98        4.27052
         481151.50    3775313.98        4.02919                    481201.50
3775313.98        3.83473
         481251.50    3775313.98        3.61282                    481301.50
3775313.98        3.44969
         481351.50    3775313.98        3.24712                    481401.50
3775313.98        3.09623
         480801.50    3775363.98        5.09833                    480851.50
3775363.98        4.91935
         480901.50    3775363.98        4.72482                    480951.50
3775363.98        4.48194
         481001.50    3775363.98        4.30801                    481051.50
3775363.98        4.11274
         481101.50    3775363.98        3.87870                    481151.50
3775363.98        3.71609
         481201.50    3775363.98        3.54321                    481251.50
3775363.98        3.34746
         481301.50    3775363.98        3.15368                    481351.50
3775363.98        3.02173
         481401.50    3775363.98        2.86662                    480801.50
3775413.98        4.66581
         480851.50    3775413.98        4.50928                    480901.50
3775413.98        4.30575
         480951.50    3775413.98        4.08889                    481001.50
3775413.98        3.86891
         481051.50    3775413.98        3.71185                    481101.50
3775413.98        3.56214
         481151.50    3775413.98        3.37363                    481201.50
3775413.98        3.23629
         481251.50    3775413.98        3.08236                    481301.50
3775413.98        2.97668
         481351.50    3775413.98        2.80875                    481401.50
3775413.98        2.67377
         480801.50    3775463.98        4.28526                    480851.50
3775463.98        4.06811
         480901.50    3775463.98        3.91579                    480951.50
3775463.98        3.69892
         481001.50    3775463.98        3.56480                    481051.50
3775463.98        3.42387
         481101.50    3775463.98        3.25321                    481151.50
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3775463.98        3.13247
         481201.50    3775463.98        2.97152                        481251.50
3775463.98        2.86108
         481301.50    3775463.98        2.75549                        481351.50
3775463.98        2.66209
         481401.50    3775463.98        2.52437                        480801.50
3775513.98        3.92188
         480851.50    3775513.98        3.71817                        480901.50
3775513.98        3.51417
         480951.50    3775513.98        3.40043                        481001.50
3775513.98        3.22379
         481051.50    3775513.98        3.11799                        481101.50
3775513.98        3.01352
         481151.50    3775513.98        2.86072                        481201.50
3775513.98        2.76218
         481251.50    3775513.98        2.64107                        481301.50
3775513.98        2.57902
         481351.50    3775513.98        2.49039                        481401.50
3775513.98        2.35329
         480801.50    3775563.98        3.52612                        480851.50
3775563.98        3.39646
         480901.50    3775563.98        3.24733                        480951.50
3775563.98        3.12186
         481001.50    3775563.98        2.99172                        481051.50
3775563.98        2.89215
         481101.50    3775563.98        2.76604                        481151.50
3775563.98        2.66872
         481201.50    3775563.98        2.55752                        481251.50
3775563.98        2.45919
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481301.50	3775563.98	2.38189	481351.50	3775563.98	2.26983
481401.50	3775563.98	2.16561	479332.46	3774240.22	4.16386
479382.46	3774240.22	4.45038	479432.46	3774240.22	4.77485
479482.46	3774240.22	5.13485	479532.46	3774240.22	5.54774
479582.46	3774240.22	6.01115	479632.46	3774240.22	6.54492
479682.46	3774240.22	7.16251	479732.46	3774240.22	7.87624
479782.46	3774240.22	8.72608	479832.46	3774240.22	9.72469
479882.46	3774240.22	10.92631	479932.46	3774240.22	12.39358
479332.46	3774290.22	4.17451	479382.46	3774290.22	4.46701
479432.46	3774290.22	4.78974	479482.46	3774290.22	5.15298
479532.46	3774290.22	5.56922	479582.46	3774290.22	6.03728
479632.46	3774290.22	6.58136	479682.46	3774290.22	7.20253
479732.46	3774290.22	7.92766	479782.46	3774290.22	8.78981
479832.46	3774290.22	9.80870	479882.46	3774290.22	11.03769
479932.46	3774290.22	12.55437	479332.46	3774340.22	4.17451
479382.46	3774340.22	4.46716	479432.46	3774340.22	4.79010
479482.46	3774340.22	5.15559	479532.46	3774340.22	5.57025
479582.46	3774340.22	6.03885	479632.46	3774340.22	6.58366
479682.46	3774340.22	7.20648	479732.46	3774340.22	7.94053
479782.46	3774340.22	8.79635	479832.46	3774340.22	9.81873
479882.46	3774340.22	11.06150	479932.46	3774340.22	12.58476
479332.46	3774390.22	4.16566	479382.46	3774390.22	4.45497

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITERU ***
                                  INCLUDING SOURCE(S):   L0002111   , L0002112 , L0002113   , L0002114   , L0002115   ,
                                   L0002116   , L0002117   , L0002118   , L0002119   , L0002120 , L0002121   , L0002122   , L0002123   ,
                                   L0002124   , L0002125   , L0002126   , L0002127   , L0002128 , L0002129   , L0002130   , L0002131   ,
                                   L0002132   , L0002133   , L0002134   , L0002135   , L0002136 , L0002137   , L0002138   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
        479888.73   3774072.72       40.90598  (16123116)               480286.74
3774147.78      118.02160  (12021516)
        480415.64   3774088.13       89.42109  (12121907)               480408.03
3774009.17       62.40823  (13112418)
        480445.38   3774004.65       57.33860  (12121907)               480447.28
3774028.67       61.52777  (12121907)
        480276.83   3774266.75      168.30304  (16123116)               480151.33
3774266.75       87.02091  (12012824)
        480135.30   3774266.75       82.54403  (12012824)               479301.50
3774413.98       17.22993  (12030223)
        479351.50   3774413.98       18.21847  (12030223)               479401.50
3774413.98       19.18464  (12030223)
        479451.50   3774413.98       20.28407  (12030223)               479501.50
3774413.98       21.51687  (12030223)
        479551.50   3774413.98       22.78298  (12030223)               479601.50
3774413.98       24.33201  (12030223)
        479651.50   3774413.98       25.88710  (12030223)               479701.50
3774413.98       27.77502  (12030223)
        479751.50   3774413.98       30.02732  (14022723)               479801.50
3774413.98       33.14650  (14022723)
        479851.50   3774413.98       36.94085  (14022723)               479901.50
3774413.98       41.06882  (14022723)
        479951.50   3774413.98       46.09643  (14022723)               480001.50
3774413.98       51.61447  (14022723)
        480051.50   3774413.98       58.30433  (14022723)               480101.50
3774413.98       66.18168  (14022723)
        480151.50   3774413.98       75.39255  (14022723)               480201.50
3774413.98       87.12447  (12040703)
        480251.50   3774413.98      105.64932  (12040703)               480301.50
3774413.98      131.99170  (12012316)
        480351.50   3774413.98      161.23464  (12012316)               480401.50
3774413.98      199.10415  (14120316)
        480451.50   3774413.98      259.47714  (14120316)               480501.50
3774413.98      312.42533  (12022716)
        480551.50   3774413.98      307.15692  (12022716)               480601.50
3774413.98      275.17023  (12022716)
        480651.50   3774413.98      254.40799  (12022716)               480701.50
3774413.98      237.17254  (12022716)
        480751.50   3774413.98      200.93057  (12082819)               480801.50
3774413.98      166.25265  (15073021)
        480851.50   3774413.98      129.41376  (12081120)               480901.50
3774413.98      106.22741  (12081222)
        480951.50   3774413.98       89.75285  (12081222)               481001.50
3774413.98       76.59357  (14102317)
        481051.50   3774413.98       68.23152  (14102317)               481101.50
3774413.98       60.63863  (14102317)
        481151.50   3774413.98       55.90962  (14102317)               481201.50
3774413.98       52.41319  (14102317)
        481251.50   3774413.98       49.26409  (14102317)               481301.50
3774413.98       46.20234  (14102317)
        481351.50   3774413.98       44.50164  (12070720)               481401.50
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3774413.98   41.91524 (12080822)
        481451.50   3774413.98   40.91261 (12082720)   479301.50
3774463.98   16.24151 (14022723)
        479351.50   3774463.98   17.44934 (14022723)   479401.50
3774463.98   18.66432 (14022723)
        479451.50   3774463.98   20.08673 (14022723)   479501.50
3774463.98   21.52817 (14022723)
        479551.50   3774463.98   23.17012 (14022723)   479601.50
3774463.98   24.90281 (14022723)
        479651.50   3774463.98   26.72756 (14022723)   479701.50
3774463.98   28.84611 (14022723)
        479751.50   3774463.98   30.94189 (14022723)   479801.50
3774463.98   33.35966 (14022723)
        479851.50   3774463.98   35.72112 (14022723)   479901.50
3774463.98   38.24218 (14022723)
        479951.50   3774463.98   43.08787 (12040703)   480001.50
3774463.98   48.41332 (12040703)
        480051.50   3774463.98   54.53999 (14011323)   480101.50
3774463.98   61.02873 (14011323)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITERU ***
                                  INCLUDING SOURCE(S):   L0002111   , L0002112
, L0002113   , L0002114   , L0002115   ,
                 L0002116   , L0002117   , L0002118   , L0002119   , L0002120
, L0002121   , L0002122   , L0002123   ,
                 L0002124   , L0002125   , L0002126   , L0002127   , L0002128
, L0002129   , L0002130   , L0002131   ,
                 L0002132   , L0002133   , L0002134   , L0002135   , L0002136
, L0002137   , L0002138   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        480151.50   3774463.98   67.69895 (14011323)   480201.50
3774463.98   73.05801 (14011323)
        480251.50   3774463.98   82.83605 (14011322)   480301.50

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3774463.98       95.82454  (14120316)
        480351.50   3774463.98      110.90840  (14120316)                480401.50
3774463.98      122.12123  (14120316)
        480451.50   3774463.98      143.68564  (14022508)                480501.50
3774463.98      149.34302  (12121601)
        480551.50   3774463.98      167.87449  (12022716)                480601.50
3774463.98      165.75770  (12022716)
        480651.50   3774463.98      142.39939  (12022716)                480701.50
3774463.98      128.55664  (12092019)
        480751.50   3774463.98      116.92949  (12092019)                480801.50
3774463.98      113.03840  (12060724)
        480851.50   3774463.98      110.09778  (12082819)                480901.50
3774463.98       95.26943  (15073021)
        480951.50   3774463.98       77.53583  (15073021)                481001.50
3774463.98       68.32997  (12081120)
        481051.50   3774463.98       61.73982  (12081120)                481101.50
3774463.98       54.68160  (12060722)
        481151.50   3774463.98       52.07348  (12060722)                481201.50
3774463.98       49.81213  (12060722)
        481251.50   3774463.98       47.81783  (12081222)                481301.50
3774463.98       46.00957  (12081222)
        481351.50   3774463.98       44.57085  (12081222)                481401.50
3774463.98       42.16291  (12090821)
        481451.50   3774463.98       40.64922  (12090821)                481501.50
3774463.98       39.13655  (12090821)
        479301.50   3774513.98       17.11814  (14022723)                479351.50
3774513.98       18.06985  (14022723)
        479401.50   3774513.98       18.99848  (14022723)                479451.50
3774513.98       20.06329  (14022723)
        479501.50   3774513.98       21.04352  (14022723)                479551.50
3774513.98       22.11991  (14022723)
        479601.50   3774513.98       23.13935  (14022723)                479651.50
3774513.98       24.52405  (12040703)
        479701.50   3774513.98       27.02644  (12040703)                479751.50
3774513.98       29.65545  (12040703)
        479801.50   3774513.98       32.58057  (12040703)                479851.50
3774513.98       35.40420  (14011323)
        479901.50   3774513.98       38.76433  (14011323)                479951.50
3774513.98       41.67033  (14011323)
        480001.50   3774513.98       44.33847  (14011323)                480051.50
3774513.98       46.90044  (14011322)
        480101.50   3774513.98       52.49324  (14011322)                480151.50
3774513.98       57.17669  (14011322)
        480201.50   3774513.98       59.38470  (14011322)                480251.50
3774513.98       65.17592  (14120316)
        480301.50   3774513.98       69.68401  (14120316)                480351.50
3774513.98       73.07914  (12121607)
        480401.50   3774513.98       88.15800  (12021321)                480451.50
3774513.98      105.36650  (14022508)
        480501.50   3774513.98       90.64630  (13102821)                480551.50
3774513.98      106.32140  (12121601)
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        480601.50   3774513.98      124.29003  (12022716)                480651.50
3774513.98      117.97977  (12022716)
        480701.50   3774513.98      104.24889  (12022716)                480751.50
3774513.98       94.70205  (12022716)
        480801.50   3774513.98       88.34863  (12092019)                480851.50
3774513.98       78.35193  (12052222)
        480901.50   3774513.98       75.45852  (12060724)                480951.50
3774513.98       72.90211  (12082819)
        481001.50   3774513.98       68.55422  (12082819)                481051.50
3774513.98       59.82883  (15073021)
        481101.50   3774513.98       52.12538  (12081120)                481151.50
3774513.98       49.77341  (12081120)
        481201.50   3774513.98       49.61825  (12081120)                481251.50
3774513.98       47.83162  (12081120)
        481301.50   3774513.98       45.35793  (12081120)                481351.50
3774513.98       43.07552  (13070601)
        481401.50   3774513.98       42.56706  (13070601)                481451.50
3774513.98       39.43343  (13070601)
        481501.50   3774513.98       38.29960  (12050320)                481551.50
3774513.98       36.16931  (12050320)
        479301.50   3774563.98       15.95705  (14022723)                479351.50
3774563.98       16.48850  (14022723)
        479401.50   3774563.98       17.33571  (12040703)                479451.50
3774563.98       18.91144  (12040703)
        479501.50   3774563.98       20.47000  (12040703)                479551.50
3774563.98       22.16338  (12040703)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:46:25

                                   PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITERU ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479601.50	3774563.98	23.81696	(12040703)	479651.50	3774563.98	25.60827	(14011323)
479701.50	3774563.98	27.45118	(14011323)	479751.50	3774563.98	29.22623	(14011323)
479801.50	3774563.98	30.81139	(14011323)	479851.50	3774563.98	31.91113	(14011323)
479901.50	3774563.98	33.74653	(14011322)	479951.50	3774563.98	37.43864	(14011322)
480001.50	3774563.98	40.67160	(14011322)	480051.50	3774563.98	42.70832	(14011322)
480101.50	3774563.98	43.39009	(14011322)	480151.50	3774563.98	43.46523	(13070106)
480201.50	3774563.98	46.39795	(14120316)	480251.50	3774563.98	47.07530	(14120316)
480301.50	3774563.98	56.00720	(12121607)	480351.50	3774563.98	57.62628	(12121607)
480401.50	3774563.98	68.51748	(12021321)	480451.50	3774563.98	81.71928	(14022508)
480501.50	3774563.98	67.50704	(14022508)	480551.50	3774563.98	76.47140	(12121601)
480601.50	3774563.98	79.35677	(12121601)	480651.50	3774563.98	92.70813	(12022716)
480701.50	3774563.98	88.75386	(12022716)	480751.50	3774563.98	80.39004	(12022716)
480801.50	3774563.98	73.82306	(12092019)	480851.50	3774563.98	71.30081	(12092019)
480901.50	3774563.98	62.72545	(12092019)	480951.50	3774563.98	59.18396	(12052222)
481001.50	3774563.98	57.41039	(12060724)	481051.50	3774563.98	55.61596	(12082819)
481101.50	3774563.98	54.73827	(12082819)	481151.50	3774563.98	52.29247	(15073021)
481201.50	3774563.98	47.11905	(15073021)	481251.50	3774563.98	45.00357	(14061006)
481301.50	3774563.98	45.48790	(12071302)	481351.50	3774563.98	43.32090	(12081120)
481401.50	3774563.98	42.35574	(12081120)	481451.50	3774563.98	41.29777	(12082921)
481501.50	3774563.98	38.00916	(12071820)	481551.50	3774563.98	36.55981	(13051603)
479301.50	3774613.98	16.30014	(12040703)	479351.50	3774613.98	17.36707	(12040703)
479401.50	3774613.98	18.49120	(12040703)	479451.50	3774613.98	19.56600	(14011323)
479501.50	3774613.98	20.78020	(14011323)	479551.50	3774613.98	22.02162	(14011323)
479601.50	3774613.98	23.01638	(14011323)	479651.50			

3774613.98   23.94636 (14011323)
        479701.50   3774613.98   24.46855 (14011323)   479751.50
3774613.98   25.70645 (14011322)
        479801.50   3774613.98   28.38725 (14011322)   479851.50
3774613.98   30.81457 (14011322)
        479901.50   3774613.98   32.59928 (14011322)   479951.50
3774613.98   33.46982 (14011322)
        480001.50   3774613.98   33.39396 (14011322)   480051.50
3774613.98   34.18329 (13070106)
        480101.50   3774613.98   34.88164 (13070106)   480151.50
3774613.98   33.90585 (14120316)
        480201.50   3774613.98   33.06503 (14120316)   480251.50
3774613.98   41.63569 (12121607)
        480301.50   3774613.98   48.67967 (12121607)   480351.50
3774613.98   47.52341 (12121607)
        480401.50   3774613.98   55.86108 (12021321)   480451.50
3774613.98   65.85403 (14022508)
        480501.50   3774613.98   58.49574 (14022508)   480551.50
3774613.98   55.29407 (13102821)
        480601.50   3774613.98   65.35501 (12121601)   480651.50
3774613.98   64.49229 (12022716)
        480701.50   3774613.98   72.56733 (12022716)   480751.50
3774613.98   70.47594 (12022716)
        480801.50   3774613.98   63.58420 (12022716)   480851.50
3774613.98   59.56130 (12092019)
        480901.50   3774613.98   59.19727 (12092019)   480951.50
3774613.98   54.54983 (12092019)
        481001.50   3774613.98   48.81940 (12100119)   481051.50
3774613.98   50.57832 (12052222)
        481101.50   3774613.98   48.25919 (12060724)   481151.50
3774613.98   48.60420 (12060724)
        481201.50   3774613.98   48.39564 (12082819)   481251.50
3774613.98   46.79942 (12082819)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITERU ***
                                   INCLUDING SOURCE(S):   L0002111   , L0002112
, L0002113   , L0002114   , L0002115   ,
                L0002116   , L0002117   , L0002118   , L0002119   , L0002120
, L0002121   , L0002122   , L0002123   ,
                L0002124   , L0002125   , L0002126   , L0002127   , L0002128
, L0002129   , L0002130   , L0002131   ,
                L0002132   , L0002133   , L0002134   , L0002135   , L0002136
, L0002137   , L0002138   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3774613.98	43.82878	(15073021)	481351.50	3774613.98	41.95907	(14061006)
481401.50	3774613.98	41.44486	(14061006)	481451.50	3774613.98	40.32628	(12071302)
481501.50	3774613.98	38.92257	(12071302)	481551.50	3774613.98	37.34485	(12082921)
479301.50	3774663.98	16.52218	(14011323)	479351.50	3774663.98	17.32427	(14011323)
479401.50	3774663.98	18.12123	(14011323)	479451.50	3774663.98	18.72983	(14011323)
479501.50	3774663.98	19.23203	(14011323)	479551.50	3774663.98	19.51260	(14011323)
479601.50	3774663.98	20.30669	(14011322)	479651.50	3774663.98	22.39326	(14011322)
479701.50	3774663.98	24.22171	(14011322)	479751.50	3774663.98	25.82516	(14011322)
479801.50	3774663.98	26.79892	(14011322)	479851.50	3774663.98	27.20291	(14011322)
479901.50	3774663.98	26.69856	(14011322)	479951.50	3774663.98	27.97318	(13070106)
480001.50	3774663.98	28.53898	(13070106)	480051.50	3774663.98	27.83018	(13070106)
480101.50	3774663.98	25.93179	(13070106)	480151.50	3774663.98	27.07181	(12121608)
480201.50	3774663.98	30.62907	(12121607)	480251.50	3774663.98	39.79498	(12121607)
480301.50	3774663.98	42.04022	(12121607)	480351.50	3774663.98	40.60578	(12121607)
480401.50	3774663.98	47.10805	(12021321)	480451.50	3774663.98	54.67050	(14022508)
480501.50	3774663.98	51.52210	(14022508)	480551.50	3774663.98	44.19411	(14022508)
480601.50	3774663.98	49.52575	(12121601)	480651.50	3774663.98	55.05309	(12121601)
480701.50	3774663.98	53.97816	(12022716)	480751.50	3774663.98	59.49806	(12022716)
480801.50	3774663.98	57.67145	(12022716)	480851.50	3774663.98	52.06781	(12022716)
480901.50	3774663.98	51.05819	(12092019)	480951.50	3774663.98	52.05889	(12092019)

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        481001.50   3774663.98       48.88260  (12092019)                481051.50
3774663.98       43.69736  (12100119)
        481101.50   3774663.98       46.28727  (12052222)                481151.50
3774663.98       47.27919  (12052222)
        481201.50   3774663.98       45.27721  (13081722)                481251.50
3774663.98       44.25036  (13081722)
        481301.50   3774663.98       42.19150  (12060724)                481351.50
3774663.98       41.86963  (12082819)
        481401.50   3774663.98       40.14101  (12082819)                481451.50
3774663.98       38.23428  (14033124)
        481501.50   3774663.98       37.67429  (12071424)                481551.50
3774663.98       36.56682  (14061006)
        479301.50   3774713.98       15.59836  (14011323)                479351.50
3774713.98       15.86337  (14011323)
        479401.50   3774713.98       16.03788  (13030722)                479451.50
3774713.98       16.66247  (13030722)
        479501.50   3774713.98       18.18365  (14011322)                479551.50
3774713.98       19.65439  (14011322)
        479601.50   3774713.98       21.00745  (14011322)                479651.50
3774713.98       21.95408  (14011322)
        479701.50   3774713.98       22.54316  (14011322)                479751.50
3774713.98       22.55839  (14011322)
        479801.50   3774713.98       22.26592  (13070106)                479851.50
3774713.98       23.56943  (13070106)
        479901.50   3774713.98       24.01310  (13070106)                479951.50
3774713.98       23.58706  (13070106)
        480001.50   3774713.98       22.13937  (13070106)                480051.50
3774713.98       20.63451  (12121608)
        480101.50   3774713.98       23.41487  (12121608)                480151.50
3774713.98       24.85567  (12121608)
        480201.50   3774713.98       31.69509  (12121607)                480251.50
3774713.98       36.60958  (12121607)
        480301.50   3774713.98       36.72875  (12121607)                480351.50
3774713.98       36.12954  (12021321)
        480401.50   3774713.98       40.73353  (12021321)                480451.50
3774713.98       46.36905  (14022508)
        480501.50   3774713.98       45.91743  (14022508)                480551.50
3774713.98       39.98565  (14022508)
        480601.50   3774713.98       39.24365  (13102821)                480651.50
3774713.98       45.82990  (12121601)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        17:46:25

                                    PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITERU ***
                                    INCLUDING SOURCE(S):     L0002111    , L0002112
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, L0002113    , L0002114    , L0002115    ,
                L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        480701.50   3774713.98       46.86564  (12121601)               480751.50
3774713.98       46.13183  (12022716)
        480801.50   3774713.98       49.97358  (12022716)               480851.50
3774713.98       48.36137  (12022716)
        480901.50   3774713.98       45.04615  (12071219)               480951.50
3774713.98       44.61374  (12071219)
        481001.50   3774713.98       47.30306  (12092019)               481051.50
3774713.98       46.58967  (12092019)
        481101.50   3774713.98       40.67067  (12092019)               481151.50
3774713.98       40.11802  (12052222)
        481201.50   3774713.98       42.15667  (12052222)               481251.50
3774713.98       43.15227  (12052222)
        481301.50   3774713.98       41.36587  (13081722)               481351.50
3774713.98       40.82327  (13081722)
        481401.50   3774713.98       38.78147  (12060724)               481451.50
3774713.98       37.07874  (12082819)
        481501.50   3774713.98       36.30618  (12082819)               479301.50
3774763.98       14.09608  (13030722)
        479351.50   3774763.98       15.10138  (14011322)               479401.50
3774763.98       16.30285  (14011322)
        479451.50   3774763.98       17.39891  (14011322)               479501.50
3774763.98       18.31705  (14011322)
        479551.50   3774763.98       18.90722  (14011322)               479601.50
3774763.98       19.22745  (14011322)
        479651.50   3774763.98       19.04794  (14011322)               479701.50
3774763.98       19.11158  (13070106)
        479751.50   3774763.98       20.18219  (13070106)               479801.50
3774763.98       20.66602  (13070106)
        479851.50   3774763.98       20.36002  (13070106)               479901.50
3774763.98       19.29345  (13070106)
        479951.50   3774763.98       17.59647  (13070106)               480001.50
3774763.98       18.17799  (12121608)
        480051.50   3774763.98       20.58039  (12121608)               480101.50
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3774763.98       21.80978  (12121608)
        480151.50   3774763.98       24.85979  (12121607)                480201.50
3774763.98       31.02298  (12121607)
        480251.50   3774763.98       33.17766  (12121607)                480301.50
3774763.98       32.50657  (12121607)
        480351.50   3774763.98       32.89247  (12021321)                480401.50
3774763.98       35.91766  (12021321)
        480451.50   3774763.98       40.08206  (14022508)                480501.50
3774763.98       41.24060  (14022508)
        480551.50   3774763.98       36.65802  (14022508)                480601.50
3774763.98       33.64348  (14022508)
        480651.50   3774763.98       35.90780  (12121601)                480701.50
3774763.98       41.36077  (12121601)
        480751.50   3774763.98       40.59903  (12121601)                480801.50
3774763.98       40.25560  (12022716)
        480851.50   3774763.98       42.80567  (12022716)                480901.50
3774763.98       42.05547  (12041201)
        480951.50   3774763.98       42.57598  (12071219)                481001.50
3774763.98       41.36358  (12071219)
        481051.50   3774763.98       43.95250  (12092019)                481101.50
3774763.98       43.36104  (12092019)
        481151.50   3774763.98       39.90150  (12092019)                481201.50
3774763.98       39.26119  (12120107)
        481251.50   3774763.98       38.47467  (12092123)                481301.50
3774763.98       39.55306  (12052222)
        481351.50   3774763.98       39.88301  (12052222)                481401.50
3774763.98       38.98408  (13081722)
        481451.50   3774763.98       38.09649  (13081722)                481501.50
3774763.98       36.41865  (13111617)
        479301.50   3774813.98       14.67550  (14011322)                479351.50
3774813.98       15.51606  (14011322)
        479401.50   3774813.98       16.11012  (14011322)                479451.50
3774813.98       16.51433  (14011322)
        479501.50   3774813.98       16.59477  (14011322)                479551.50
3774813.98       16.37601  (14011322)
        479601.50   3774813.98       16.63607  (13070106)                479651.50
3774813.98       17.54094  (13070106)
        479701.50   3774813.98       17.99466  (13070106)                479751.50
3774813.98       17.83213  (13070106)
        479801.50   3774813.98       17.09946  (13070106)                479851.50
3774813.98       15.74914  (13070106)
        479901.50   3774813.98       14.04498  (12123106)                479951.50
3774813.98       16.24057  (12121608)
        480001.50   3774813.98       18.27933  (12121608)                480051.50
3774813.98       19.40242  (12121608)
        480101.50   3774813.98       20.61883  (13021806)                480151.50
3774813.98       25.70929  (12121607)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:46:25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITERU ***

INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 , L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 , L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 , L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480201.50	3774813.98	29.39623	(12121607)	480251.50	3774813.98	29.99406	(12121607)
480301.50	3774813.98	28.95286	(12121607)	480351.50	3774813.98	30.11621	(12021321)
480401.50	3774813.98	32.15533	(12021321)	480451.50	3774813.98	35.13734	(14022508)
480501.50	3774813.98	37.26997	(14022508)	480551.50	3774813.98	33.94209	(14022508)
480601.50	3774813.98	30.93645	(14022508)	480651.50	3774813.98	30.30808	(13102821)
480701.50	3774813.98	34.90050	(12121601)	480751.50	3774813.98	37.25193	(12121601)
480801.50	3774813.98	35.67307	(12121601)	480851.50	3774813.98	38.09686	(12031723)
480901.50	3774813.98	37.26944	(12022716)	480951.50	3774813.98	39.55442	(12041201)
481001.50	3774813.98	41.09505	(12071219)	481051.50	3774813.98	41.73333	(12071219)
481101.50	3774813.98	40.41077	(12092019)	481151.50	3774813.98	41.35452	(12092019)
481201.50	3774813.98	38.63897	(12092019)	481251.50	3774813.98	37.20424	(12120107)
481301.50	3774813.98	36.31608	(12120107)	481351.50	3774813.98	37.47325	(12092123)
481401.50	3774813.98	37.27100	(12092123)	481451.50	3774813.98	36.99118	(13090905)

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        481501.50   3774813.98       36.29316  (12080223)               479301.50
3774863.98       14.27730  (14011322)
        479351.50   3774863.98       14.52742  (14011322)               479401.50
3774863.98       14.48043  (14011322)
        479451.50   3774863.98       14.22616  (14011322)               479501.50
3774863.98       14.64454  (13070106)
        479551.50   3774863.98       15.46688  (13070106)               479601.50
3774863.98       15.86245  (13070106)
        479651.50   3774863.98       15.79589  (13070106)               479701.50
3774863.98       15.27028  (13070106)
        479751.50   3774863.98       14.22787  (13070106)               479801.50
3774863.98       12.81996  (13070106)
        479851.50   3774863.98       12.51573  (12123106)               479901.50
3774863.98       14.63943  (12121608)
        479951.50   3774863.98       16.43354  (12121608)               480001.50
3774863.98       17.41938  (12121608)
        480051.50   3774863.98       17.53769  (13021806)               480101.50
3774863.98       20.99369  (12121607)
        480151.50   3774863.98       25.48357  (12121607)               480201.50
3774863.98       27.38143  (12121607)
        480251.50   3774863.98       27.10444  (12121607)               480301.50
3774863.98       25.71561  (12121607)
        480351.50   3774863.98       27.73464  (12021321)               480401.50
3774863.98       29.13596  (12021321)
        480451.50   3774863.98       31.18688  (14022508)               480501.50
3774863.98       33.88217  (14022508)
        480551.50   3774863.98       31.59321  (14022508)               480601.50
3774863.98       28.76229  (14022508)
        480651.50   3774863.98       26.26184  (14022508)               480701.50
3774863.98       32.36044  (13102821)
        480751.50   3774863.98       34.19284  (12121601)               480801.50
3774863.98       33.81829  (12121601)
        480851.50   3774863.98       32.40618  (12031723)               480901.50
3774863.98       34.85386  (12031723)
        480951.50   3774863.98       36.04536  (12041201)               481001.50
3774863.98       37.86275  (12041201)
        481051.50   3774863.98       38.59880  (12071219)               481101.50
3774863.98       40.06114  (12071219)
        481151.50   3774863.98       38.45254  (12111417)               481201.50
3774863.98       38.07057  (12092019)
        481251.50   3774863.98       37.19841  (12092019)               481301.50
3774863.98       35.78986  (12071222)
        481351.50   3774863.98       36.69817  (12120107)               481401.50
3774863.98       35.51359  (12120107)
        481451.50   3774863.98       36.49598  (12092123)               481501.50
3774863.98       35.72129  (12092123)
        479301.50   3774913.98       12.75432  (14011322)               479351.50
3774913.98       12.47414  (14011322)
        479401.50   3774913.98       13.01651  (13070106)               479451.50
3774913.98       13.73891  (13070106)
        479501.50   3774913.98       14.11597  (13070106)               479551.50
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*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITERU ***
INCLUDING SOURCE(S):   L0002111   , L0002112 , L0002113   , L0002114   , L0002115   ,
L0002116   , L0002117   , L0002118   , L0002119   , L0002120 , L0002121   , L0002122   , L0002123   ,
L0002124   , L0002125   , L0002126   , L0002127   , L0002128 , L0002129   , L0002130   , L0002131   ,
L0002132   , L0002133   , L0002134   , L0002135   , L0002136 , L0002137   , L0002138   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479701.50	3774913.98	11.81801	(13070106)	479751.50	3774913.98	11.03704	(12123106)
479801.50	3774913.98	11.30293	(12121608)	479851.50	3774913.98	13.31293	(12121608)
479901.50	3774913.98	14.87709	(12121608)	479951.50	3774913.98	15.75124	(12121608)
480001.50	3774913.98	15.82839	(12121608)	480051.50	3774913.98	17.89167	(13021806)
480101.50	3774913.98	21.69511	(12121607)	480151.50	3774913.98	24.58127	(12121607)
480201.50	3774913.98	25.24832	(12121607)	480251.50	3774913.98	24.40455	(12121607)
480301.50	3774913.98	22.59112	(12121607)	480351.50	3774913.98	25.68475	(12021321)
480401.50	3774913.98	26.64921	(12021321)	480451.50	3774913.98	27.95930	(14022508)
480501.50	3774913.98	30.94517	(14022508)	480551.50	3774913.98	29.51661	(14022508)
480601.50	3774913.98	26.95240	(14022508)	480651.50			

3774913.98 24.33193 (14022508)
480701.50 3774913.98 28.67810 (13102821) 480751.50
3774913.98 30.48271 (12121601)
480801.50 3774913.98 32.70304 (12121601) 480851.50
3774913.98 31.35524 (12121601)
480901.50 3774913.98 31.52917 (12031723) 480951.50
3774913.98 33.87193 (12031723)
481001.50 3774913.98 34.04955 (12041201) 481051.50
3774913.98 36.00820 (12041201)
481101.50 3774913.98 36.83623 (12071219) 481151.50
3774913.98 37.69555 (12071219)
481201.50 3774913.98 36.55352 (12071219) 481251.50
3774913.98 35.94876 (12111417)
481301.50 3774913.98 35.31648 (12092019) 481351.50
3774913.98 34.05343 (12071222)
481401.50 3774913.98 35.97229 (12071222) 481451.50
3774913.98 35.48144 (12120107)
481501.50 3774913.98 35.04965 (13090224) 479301.50
3774963.98 11.66927 (13070106)
479351.50 3774963.98 12.30743 (13070106) 479401.50
3774963.98 12.66115 (13070106)
479451.50 3774963.98 12.74257 (13070106) 479501.50
3774963.98 12.45906 (13070106)
479551.50 3774963.98 11.86555 (13070106) 479601.50
3774963.98 10.93727 (13070106)
479651.50 3774963.98 9.76863 (13070106) 479701.50
3774963.98 10.05081 (12123106)
479751.50 3774963.98 10.42469 (12121608) 479801.50
3774963.98 12.20035 (12121608)
479851.50 3774963.98 13.56769 (12121608) 479901.50
3774963.98 14.34144 (12121608)
479951.50 3774963.98 14.41418 (12121608) 480001.50
3774963.98 15.65292 (13021806)
480051.50 3774963.98 18.25433 (12121607) 480101.50
3774963.98 21.65826 (12121607)
480151.50 3774963.98 23.27027 (12121607) 480201.50
3774963.98 23.10619 (12121607)
480251.50 3774963.98 21.78643 (12121607) 480301.50
3774963.98 19.99114 (12021321)
480351.50 3774963.98 23.90968 (12021321) 480401.50
3774963.98 24.57593 (12021321)
480451.50 3774963.98 25.28020 (14022508) 480501.50
3774963.98 28.42116 (14022508)
480551.50 3774963.98 27.60741 (14022508) 480601.50
3774963.98 25.38844 (14022508)
480651.50 3774963.98 22.76520 (14022508) 480701.50
3774963.98 24.64071 (13102821)
480751.50 3774963.98 28.24238 (13102821) 480801.50
3774963.98 29.30488 (12121601)
480851.50 3774963.98 30.01088 (12121601) 480901.50
3774963.98 29.88708 (12121601)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITERU ***
INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 ,
L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 ,
L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 ,
L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481451.50	3774963.98	35.50560	(12071222)	480801.50	3775013.98	26.69496	(12121601)
480851.50	3775013.98	30.38780	(12121601)	480901.50	3775013.98	30.67632	(12121601)
480951.50	3775013.98	28.10052	(12041203)	481001.50	3775013.98	30.88154	(12031723)
481051.50	3775013.98	31.72133	(12031723)	481101.50	3775013.98	32.26702	(12081701)
481151.50	3775013.98	33.14647	(12080105)	481201.50	3775013.98	34.13016	(12080105)
481251.50	3775013.98	35.29445	(12071219)	481301.50	3775013.98	34.58779	(12071219)

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        481351.50   3775013.98       34.55929  (14040821)               481401.50
3775013.98       34.57328  (14040821)
        481451.50   3775013.98       34.21380  (12071323)               480801.50
3775063.98       26.64646  (13102821)
        480851.50   3775063.98       28.42481  (12121601)               480901.50
3775063.98       30.49946  (12121601)
        480951.50   3775063.98       29.33283  (12121601)               481001.50
3775063.98       28.34406  (12041203)
        481051.50   3775063.98       30.06710  (12031723)               481101.50
3775063.98       30.00689  (12031723)
        481151.50   3775063.98       31.90031  (12081701)               481201.50
3775063.98       32.15018  (12080105)
        481251.50   3775063.98       33.26979  (12080105)               481301.50
3775063.98       33.99027  (12071219)
        481351.50   3775063.98       33.58247  (12071219)               481401.50
3775063.98       33.93553  (14040821)
        481451.50   3775063.98       34.20149  (14040821)               480801.50
3775113.98       25.39895  (13102821)
        480851.50   3775113.98       27.32699  (13102821)               480901.50
3775113.98       29.19288  (12121601)
        480951.50   3775113.98       29.58394  (12121601)               481001.50
3775113.98       29.17846  (12041203)
        481051.50   3775113.98       27.53388  (12041203)               481101.50
3775113.98       29.04400  (12031723)
        481151.50   3775113.98       30.20081  (12081701)               481201.50
3775113.98       32.68338  (12081701)
        481251.50   3775113.98       32.20017  (12081701)               481301.50
3775113.98       32.34209  (12080105)
        481351.50   3775113.98       33.03861  (12091001)               481401.50
3775113.98       33.29889  (12091001)
        481451.50   3775113.98       32.48221  (12111523)               480801.50
3775163.98       23.36211  (13102821)
        480851.50   3775163.98       26.76981  (13102821)               480901.50
3775163.98       27.44451  (12011117)
        480951.50   3775163.98       28.73395  (12121601)               481001.50
3775163.98       28.75815  (12041203)
        481051.50   3775163.98       28.83534  (12041203)               481101.50
3775163.98       27.26012  (12121724)
        481151.50   3775163.98       27.99255  (12031723)               481201.50
3775163.98       30.83760  (12081701)
        481251.50   3775163.98       33.09965  (12081701)               481301.50
3775163.98       31.87799  (12081701)
        481351.50   3775163.98       31.05513  (12080105)               481401.50
3775163.98       32.95149  (12091001)
        481451.50   3775163.98       33.14837  (12091001)               480801.50
3775213.98       21.52126  (13102821)
        480851.50   3775213.98       26.08880  (13102821)               480901.50
3775213.98       27.40436  (12011117)
        480951.50   3775213.98       27.10563  (12121601)               481001.50
3775213.98       27.90112  (12121601)
        481051.50   3775213.98       28.70784  (12041203)               481101.50
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3775213.98 27.95069 (12041203)
 481151.50 3775213.98 28.28583 (12121724) 481201.50
3775213.98 28.72609 (13030404)
 481251.50 3775213.98 31.23434 (12081701) 481301.50
3775213.98 32.63255 (13020223)
 481351.50 3775213.98 31.46282 (13041822) 481401.50
3775213.98 31.05706 (13070402)
 481451.50 3775213.98 32.98082 (13070402) 480801.50
3775263.98 20.39885 (12121508)
 480851.50 3775263.98 24.29508 (13102821) 480901.50
3775263.98 26.83640 (13102821)
 480951.50 3775263.98 27.25216 (12011117) 481001.50
3775263.98 27.21368 (13070304)
 481051.50 3775263.98 27.92047 (12041203) 481101.50
3775263.98 28.70916 (12041203)
 481151.50 3775263.98 29.20643 (12121724) 481201.50
3775263.98 28.62732 (12121724)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITERU ***
INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 ,
L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 ,
L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 ,
L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481251.50	3775263.98	30.07371	(13030404)	481301.50	3775263.98	31.09381	(13020223)
481351.50	3775263.98	32.58915	(13020223)	481401.50	3775263.98	31.95227	(12061305)
481451.50	3775263.98	30.69202	(13052106)	480801.50			

3775313.98 20.26030 (12121508)
480851.50 3775313.98 21.73865 (13102821) 480901.50
3775313.98 25.90606 (15090206)
480951.50 3775313.98 27.13763 (12011117) 481001.50
3775313.98 27.78715 (13070304)
481051.50 3775313.98 27.56876 (13070304) 481101.50
3775313.98 28.30504 (12041203)
481151.50 3775313.98 28.64602 (12121724) 481201.50
3775313.98 29.68156 (12121724)
481251.50 3775313.98 28.77602 (12120619) 481301.50
3775313.98 30.59486 (13030404)
481351.50 3775313.98 31.30806 (13020223) 481401.50
3775313.98 32.06649 (13020223)
480801.50 3775363.98 20.62148 (12121508) 480851.50
3775363.98 21.75427 (12121508)
480901.50 3775363.98 24.38740 (15090206) 480951.50
3775363.98 26.92748 (15090206)
481001.50 3775363.98 26.77513 (12011117) 481051.50
3775363.98 27.87295 (13070304)
481101.50 3775363.98 27.11365 (12122323) 481151.50
3775363.98 27.86260 (13090906)
481201.50 3775363.98 29.07503 (12121724) 481251.50
3775363.98 29.41098 (12121724)
481301.50 3775363.98 29.85679 (12120619) 481351.50
3775363.98 31.06346 (13072205)
481401.50 3775363.98 30.97971 (13072205) 480801.50
3775413.98 20.74330 (12051104)
480851.50 3775413.98 21.99950 (12121508) 480901.50
3775413.98 23.84283 (14061903)
480951.50 3775413.98 26.08873 (15090206) 481001.50
3775413.98 26.82615 (12011117)
481051.50 3775413.98 27.48263 (13070304) 481101.50
3775413.98 27.39142 (13070304)
481151.50 3775413.98 28.34744 (13090906) 481201.50
3775413.98 28.40726 (13090906)
481251.50 3775413.98 29.57319 (12121724) 481301.50
3775413.98 28.35901 (12121724)
481351.50 3775413.98 29.97870 (12120619) 481401.50
3775413.98 31.22945 (13072205)
480801.50 3775463.98 20.85622 (12051104) 480851.50
3775463.98 22.69895 (13070104)
480901.50 3775463.98 23.95124 (14061903) 480951.50
3775463.98 25.99811 (12091722)
481001.50 3775463.98 26.32956 (15090206) 481051.50
3775463.98 25.82806 (12011117)
481101.50 3775463.98 27.44241 (13070304) 481151.50
3775463.98 27.34108 (12122323)
481201.50 3775463.98 29.04604 (13090906) 481251.50
3775463.98 27.92040 (12121724)
481301.50 3775463.98 28.97443 (12121724) 481351.50
3775463.98 27.97929 (13072906)

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        481401.50   3775463.98       29.75900  (12120619)                480801.50
3775513.98       20.99036  (12051104)
        480851.50   3775513.98       23.22653  (13070104)                480901.50
3775513.98       23.85772  (14061903)
        480951.50   3775513.98       25.34592  (14061903)                481001.50
3775513.98       26.84573  (12091722)
        481051.50   3775513.98       25.63712  (12011117)                481101.50
3775513.98       26.40113  (13070304)
        481151.50   3775513.98       27.48209  (13040703)                481201.50
3775513.98       28.02259  (12122323)
        481251.50   3775513.98       28.89627  (13090906)                481301.50
3775513.98       27.88083  (12121724)
        481351.50   3775513.98       27.97960  (12121724)                481401.50
3775513.98       28.89592  (13072906)
        480801.50   3775563.98       21.73329  (13020301)                480851.50
3775563.98       23.37871  (13070104)
        480901.50   3775563.98       23.77081  (13070104)                480951.50
3775563.98       25.14064  (14061903)
        481001.50   3775563.98       26.27480  (12091722)                481051.50
3775563.98       25.88112  (12091722)
        481101.50   3775563.98       25.04210  (12081106)                481151.50
3775563.98       26.61980  (13040703)
        481201.50   3775563.98       27.20842  (12080704)                481251.50
3775563.98       28.51447  (13090906)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***         04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***         17:46:25

                                   PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITERU ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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3774390.22   28.83155 (12030223)
        479732.46   3774390.22   31.05166 (12030223)   479782.46
3774390.22   33.56721 (12030223)
        479832.46   3774390.22   36.58284 (12030223)   479882.46
3774390.22   40.06808 (12030223)
        479932.46   3774390.22   44.11917 (12030223)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE ***
                                   INCLUDING SOURCE(S):   L0002957   , L0002958
, L0002959   , L0002960   , L0002961   ,
                  L0002962   , L0002963   , L0002964   , L0002965   , L0002966
, L0002967   , L0002968   , L0002969   ,
                  L0002970   , L0002971   , L0002972   , L0002973   , L0002974
, L0002975   , L0002976   , L0002977   ,
                  L0002978   , L0002979   , L0002980   , L0002981   , L0002982
, L0002983   , L0002984   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        480415.97   3774200.25   63.38557 (16123116)   480386.35
3774201.62   53.36454 (12110208)
        480364.52   3774200.25   48.70681 (12110208)   480441.34
3774196.20   64.07247 (16123116)
        480332.65   3774203.34   45.23839 (12110208)   480281.98
3774208.10   36.32679 (12110208)
        480259.39   3774210.95   32.79358 (12110208)   480179.23
3774215.23   25.28659 (12122006)
        479777.13   3774155.68   11.71579 (14011308)   479903.88
3774153.05   13.93445 (14011308)
        479888.73   3774072.72   12.88399 (12111302)   480286.74
3774147.78   27.13641 (12111302)
        480415.64   3774088.13   25.15855 (12111302)   480408.03
3774009.17   20.64115 (12012822)
        480445.38   3774004.65   21.76052 (12012822)   480447.28

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3774028.67       23.15119  (12012824)
        480276.83   3774266.75       34.93703  (14022723)                480151.33
3774266.75       24.05812  (14022723)
        480135.30   3774266.75       23.10977  (14022723)                479301.50
3774413.98        7.36408  (14022723)
        479351.50   3774413.98        7.70028  (14022723)                479401.50
3774413.98        8.00972  (14022723)
        479451.50   3774413.98        8.34776  (14022723)                479501.50
3774413.98        8.70826  (14022723)
        479551.50   3774413.98        9.04833  (14022723)                479601.50
3774413.98        9.44875  (14022723)
        479651.50   3774413.98       10.04082  (12040703)                479701.50
3774413.98       10.83390  (12040703)
        479751.50   3774413.98       11.60753  (12040703)                479801.50
3774413.98       12.41475  (12040703)
        479851.50   3774413.98       13.35944  (14011323)                479901.50
3774413.98       14.30507  (14011323)
        479951.50   3774413.98       15.30757  (14011323)                480001.50
3774413.98       16.13190  (14011323)
        480051.50   3774413.98       16.88223  (14011323)                480101.50
3774413.98       17.82166  (14011322)
        480151.50   3774413.98       19.28058  (14011322)                480201.50
3774413.98       20.39550  (14011322)
        480251.50   3774413.98       21.01334  (14011322)                480301.50
3774413.98       21.62943  (14011322)
        480351.50   3774413.98       22.26049  (14011322)                480401.50
3774413.98       23.07538  (14011322)
        480451.50   3774413.98       24.19355  (14011322)                480501.50
3774413.98       25.95932  (14120316)
        480551.50   3774413.98       29.19264  (14120316)                480601.50
3774413.98       33.08913  (14120316)
        480651.50   3774413.98       38.65682  (12121607)                480701.50
3774413.98       49.03044  (12121607)
        480751.50   3774413.98       58.80511  (14022508)                480801.50
3774413.98       57.60882  (12022716)
        480851.50   3774413.98       45.42514  (12022716)                480901.50
3774413.98       32.89264  (12022716)
        480951.50   3774413.98       25.89292  (12092019)                481001.50
3774413.98       22.57220  (12052222)
        481051.50   3774413.98       20.77597  (12052222)                481101.50
3774413.98       19.66071  (12082819)
        481151.50   3774413.98       18.84176  (12082819)                481201.50
3774413.98       18.13387  (12082819)
        481251.50   3774413.98       20.08575  (14061006)                481301.50
3774413.98       20.27498  (14061006)
        481351.50   3774413.98       20.28394  (14061006)                481401.50
3774413.98       19.96986  (14061006)
        481451.50   3774413.98       20.11102  (12083023)                479301.50
3774463.98        7.02455  (14022723)
        479351.50   3774463.98        7.27297  (14022723)                479401.50
3774463.98        7.64984  (12040703)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0002957 , L0002958 , L0002959 , L0002960 , L0002961 ,
L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 , L0002968 , L0002969 ,
L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 , L0002976 , L0002977 ,
L0002978 , L0002979 , L0002980 , L0002981 , L0002982 , L0002983 , L0002984 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479451.50	3774463.98	8.15522	(12040703)	479501.50	3774463.98	8.64436	(12040703)
479551.50	3774463.98	9.18673	(12040703)	479601.50	3774463.98	9.72860	(12040703)
479651.50	3774463.98	10.27113	(14011323)	479701.50	3774463.98	10.94491	(14011323)
479751.50	3774463.98	11.54947	(14011323)	479801.50	3774463.98	12.20025	(14011323)
479851.50	3774463.98	12.73706	(14011323)	479901.50	3774463.98	13.22746	(14011323)
479951.50	3774463.98	13.64480	(14011323)	480001.50	3774463.98	14.75800	(14011322)
480051.50	3774463.98	15.82937	(14011322)	480101.50	3774463.98	16.54844	(14011322)
480151.50	3774463.98	17.09130	(14011322)	480201.50	3774463.98	17.42166	(14011322)
480251.50	3774463.98	17.68890	(14011322)	480301.50	3774463.98	18.13382	(14011322)
480351.50	3774463.98	18.52800	(14011322)	480401.50	3774463.98	19.44970	(13070106)
480451.50	3774463.98	20.35958	(13070106)	480501.50	3774463.98	21.15857	(13070106)

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        480551.50   3774463.98       22.08471  (12121607)               480601.50
3774463.98       27.31762  (12121607)
        480651.50   3774463.98       32.24214  (12121607)               480701.50
3774463.98       33.97703  (12021321)
        480751.50   3774463.98       38.64603  (14022508)               480801.50
3774463.98       31.11478  (12121601)
        480851.50   3774463.98       34.12249  (12022716)               480901.50
3774463.98       30.75707  (12022716)
        480951.50   3774463.98       24.33673  (12022716)               481001.50
3774463.98       21.19400  (12092019)
        481051.50   3774463.98       19.03230  (12092019)               481101.50
3774463.98       17.38850  (12052222)
        481151.50   3774463.98       16.66474  (12052222)               481201.50
3774463.98       16.10654  (12060724)
        481251.50   3774463.98       17.95744  (13081722)               481301.50
3774463.98       17.90874  (13081722)
        481351.50   3774463.98       18.22570  (13071823)               481401.50
3774463.98       18.30995  (13071823)
        481451.50   3774463.98       18.20218  (13071823)               481501.50
3774463.98       18.31676  (13071823)
        479301.50   3774513.98        7.14770  (12040703)               479351.50
3774513.98        7.52829  (12040703)
        479401.50   3774513.98        7.89195  (12040703)               479451.50
3774513.98        8.30550  (12040703)
        479501.50   3774513.98        8.72818  (14011323)               479551.50
3774513.98        9.19028  (14011323)
        479601.50   3774513.98        9.62042  (14011323)               479651.50
3774513.98       10.07322  (14011323)
        479701.50   3774513.98       10.43537  (14011323)               479751.50
3774513.98       10.74967  (14011323)
        479801.50   3774513.98       11.07659  (14011323)               479851.50
3774513.98       11.73308  (14011322)
        479901.50   3774513.98       12.61683  (14011322)               479951.50
3774513.98       13.30533  (14011322)
        480001.50   3774513.98       13.88363  (14011322)               480051.50
3774513.98       14.25391  (14011322)
        480101.50   3774513.98       14.46144  (14011322)               480151.50
3774513.98       14.67433  (14011322)
        480201.50   3774513.98       14.80797  (14011322)               480251.50
3774513.98       15.03097  (13070106)
        480301.50   3774513.98       15.55838  (13070106)               480351.50
3774513.98       16.03527  (13070106)
        480401.50   3774513.98       16.54116  (13070106)               480451.50
3774513.98       16.74655  (13070106)
        480501.50   3774513.98       17.55289  (12121607)               480551.50
3774513.98       20.94179  (12121607)
        480601.50   3774513.98       24.15965  (12121607)               480651.50
3774513.98       25.56347  (12121607)
        480701.50   3774513.98       26.46372  (12021321)               480751.50
3774513.98       29.05213  (14022508)
        480801.50   3774513.98       25.07812  (14022508)               480851.50
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3774513.98       23.94349  (12121601)
        480901.50   3774513.98       25.00526  (12022716)                480951.50
3774513.98       22.70330  (12022716)
        481001.50   3774513.98       19.21647  (12022716)                481051.50
3774513.98       17.70742  (12092019)
        481101.50   3774513.98       16.51338  (12092019)                481151.50
3774513.98       15.29601  (12092019)
        481201.50   3774513.98       14.79543  (12052222)                481251.50
3774513.98       17.12347  (13081722)
        481301.50   3774513.98       17.41415  (13081722)                481351.50
3774513.98       16.95513  (13081722)
        481401.50   3774513.98       17.41797  (12081122)                481451.50
3774513.98       16.87351  (12081122)
        481501.50   3774513.98       17.05994  (12081122)                481551.50
3774513.98       16.31155  (13071323)
        479301.50   3774563.98        7.20844  (14011323)                479351.50
3774563.98        7.54478  (14011323)
        479401.50   3774563.98        7.85971  (14011323)                479451.50
3774563.98        8.19212  (14011323)
        479501.50   3774563.98        8.47145  (14011323)                479551.50
3774563.98        8.76210  (14011323)
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                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0002957    , L0002958
, L0002959    , L0002960    , L0002961    ,
                L0002962    , L0002963    , L0002964    , L0002965    , L0002966
, L0002967    , L0002968    , L0002969    ,
                L0002970    , L0002971    , L0002972    , L0002973    , L0002974
, L0002975    , L0002976    , L0002977    ,
                L0002978    , L0002979    , L0002980    , L0002981    , L0002982
, L0002983    , L0002984    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
        479601.50   3774563.98        9.00075  (14011323)                479651.50
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3774563.98        9.24112  (14011323)
        479701.50   3774563.98        9.61740  (14011322)                479751.50
3774563.98       10.29410  (14011322)
        479801.50   3774563.98       10.92169  (14011322)                479851.50
3774563.98       11.42005  (14011322)
        479901.50   3774563.98       11.86583  (14011322)                479951.50
3774563.98       12.12492  (14011322)
        480001.50   3774563.98       12.32880  (14011322)                480051.50
3774563.98       12.41832  (14011322)
        480101.50   3774563.98       12.53050  (14011322)                480151.50
3774563.98       12.72256  (13070106)
        480201.50   3774563.98       12.98497  (13070106)                480251.50
3774563.98       13.30420  (13070106)
        480301.50   3774563.98       13.54348  (13070106)                480351.50
3774563.98       13.72382  (13070106)
        480401.50   3774563.98       13.70751  (13070106)                480451.50
3774563.98       14.38153  (12121607)
        480501.50   3774563.98       16.96932  (12121607)                480551.50
3774563.98       19.32838  (12121607)
        480601.50   3774563.98       20.77534  (12121607)                480651.50
3774563.98       20.48874  (12121607)
        480701.50   3774563.98       21.54471  (12021321)                480751.50
3774563.98       23.38166  (14022508)
        480801.50   3774563.98       21.42025  (14022508)                480851.50
3774563.98       19.27957  (12121601)
        480901.50   3774563.98       19.08423  (12121601)                480951.50
3774563.98       19.40720  (12022716)
        481001.50   3774563.98       18.02077  (12022716)                481051.50
3774563.98       15.85202  (12071219)
        481101.50   3774563.98       15.20314  (12092019)                481151.50
3774563.98       14.68152  (12092019)
        481201.50   3774563.98       15.68620  (12092019)                481251.50
3774563.98       15.61646  (12092123)
        481301.50   3774563.98       16.38631  (12092123)                481351.50
3774563.98       15.94510  (12092123)
        481401.50   3774563.98       15.94861  (13090905)                481451.50
3774563.98       16.33121  (13090822)
        481501.50   3774563.98       15.77082  (12081223)                481551.50
3774563.98       15.60478  (12081122)
        479301.50   3774613.98        7.09254  (14011323)                479351.50
3774613.98        7.29991  (14011323)
        479401.50   3774613.98        7.51550  (14011323)                479451.50
3774613.98        7.69172  (14011323)
        479501.50   3774613.98        7.83137  (14011323)                479551.50
3774613.98        8.07432  (14011322)
        479601.50   3774613.98        8.60452  (14011322)                479651.50
3774613.98        9.14511  (14011322)
        479701.50   3774613.98        9.58898  (14011322)                479751.50
3774613.98       10.00731  (14011322)
        479801.50   3774613.98       10.29537  (14011322)                479851.50
3774613.98       10.52560  (14011322)
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        479901.50   3774613.98       10.65414  (14011322)               479951.50
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        480001.50   3774613.98       10.75722  (14011322)               480051.50
3774613.98       10.98117  (13070106)
        480101.50   3774613.98       11.19307  (13070106)               480151.50
3774613.98       11.34206  (13070106)
        480201.50   3774613.98       11.49012  (13070106)               480251.50
3774613.98       11.60840  (13070106)
        480301.50   3774613.98       11.63327  (13070106)               480351.50
3774613.98       11.48808  (13070106)
        480401.50   3774613.98       12.15056  (12121607)               480451.50
3774613.98       14.18064  (12121607)
        480501.50   3774613.98       16.00191  (12121607)               480551.50
3774613.98       17.35505  (12121607)
        480601.50   3774613.98       17.76277  (12121607)               480651.50
3774613.98       17.10755  (12021321)
        480701.50   3774613.98       18.14112  (12021321)               480751.50
3774613.98       19.61494  (14022508)
        480801.50   3774613.98       18.57943  (14022508)               480851.50
3774613.98       15.93931  (14022508)
        480901.50   3774613.98       16.55727  (12121601)               480951.50
3774613.98       15.75591  (12121601)
        481001.50   3774613.98       15.78864  (12022716)               481051.50
3774613.98       14.81362  (12022716)
        481101.50   3774613.98       13.88319  (12071219)               481151.50
3774613.98       13.47392  (12092019)
        481201.50   3774613.98       15.38753  (12092019)               481251.50
3774613.98       15.12659  (12092019)
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                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0002957    , L0002958
, L0002959    , L0002960    , L0002961    ,
                  L0002962    , L0002963    , L0002964    , L0002965    , L0002966
, L0002967    , L0002968    , L0002969    ,
                  L0002970    , L0002971    , L0002972    , L0002973    , L0002974
, L0002975    , L0002976    , L0002977    ,
                  L0002978    , L0002979    , L0002980    , L0002981    , L0002982
, L0002983    , L0002984    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3774613.98	14.98548	(12120107)	481351.50	3774613.98	15.19429	(13090224)
481401.50	3774613.98	15.30682	(13090224)	481451.50	3774613.98	15.21305	(13090224)
481501.50	3774613.98	14.99957	(12081522)	481551.50	3774613.98	14.77264	(13090822)
479301.50	3774663.98	6.67870	(14011323)	479351.50	3774663.98	6.78333	(14011323)
479401.50	3774663.98	6.90671	(14011322)	479451.50	3774663.98	7.34246	(14011322)
479501.50	3774663.98	7.77820	(14011322)	479551.50	3774663.98	8.17625	(14011322)
479601.50	3774663.98	8.53020	(14011322)	479651.50	3774663.98	8.83698	(14011322)
479701.50	3774663.98	9.05197	(14011322)	479751.50	3774663.98	9.24296	(14011322)
479801.50	3774663.98	9.32478	(14011322)	479851.50	3774663.98	9.39048	(14011322)
479901.50	3774663.98	9.43425	(13070106)	479951.50	3774663.98	9.63469	(13070106)
480001.50	3774663.98	9.79697	(13070106)	480051.50	3774663.98	9.90198	(13070106)
480101.50	3774663.98	9.99413	(13070106)	480151.50	3774663.98	10.03804	(13070106)
480201.50	3774663.98	10.06943	(13070106)	480251.50	3774663.98	9.97858	(13070106)
480301.50	3774663.98	9.88988	(12121608)	480351.50	3774663.98	10.46449	(12121607)
480401.50	3774663.98	12.09969	(12121607)	480451.50	3774663.98	13.60738	(12121607)
480501.50	3774663.98	14.82085	(12121607)	480551.50	3774663.98	15.44410	(12121607)
480601.50	3774663.98	15.33550	(12121607)	480651.50	3774663.98	15.17021	(12021321)
480701.50	3774663.98	15.67244	(12021321)	480751.50	3774663.98	16.92130	(14022508)
480801.50	3774663.98	16.36045	(14022508)	480851.50	3774663.98	14.57841	(14022508)
480901.50	3774663.98	14.15930	(12121601)	480951.50	3774663.98	14.26584	(12121601)
481001.50	3774663.98	13.40528	(12121601)	481051.50	3774663.98	13.29486	(12022716)
481101.50	3774663.98	12.67366	(12041201)	481151.50	3774663.98	15.33320	(12071219)
481201.50	3774663.98	14.97121	(12071219)	481251.50			

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3774663.98       14.86460  (12071219)
        481301.50   3774663.98       14.18821  (12071219)                481351.50
3774663.98       14.37282  (12071222)
        481401.50   3774663.98       14.56276  (12071222)                481451.50
3774663.98       14.13895  (12071222)
        481501.50   3774663.98       14.28141  (13090224)                481551.50
3774663.98       13.97004  (13090224)
        479301.50   3774713.98        6.36175  (14011322)                479351.50
3774713.98        6.71778  (14011322)
        479401.50   3774713.98        7.06799  (14011322)                479451.50
3774713.98        7.36836  (14011322)
        479501.50   3774713.98        7.66486  (14011322)                479551.50
3774713.98        7.88148  (14011322)
        479601.50   3774713.98        8.08275  (14011322)                479651.50
3774713.98        8.19348  (14011322)
        479701.50   3774713.98        8.27979  (14011322)                479751.50
3774713.98        8.30351  (14011322)
        479801.50   3774713.98        8.37267  (13070106)                479851.50
3774713.98        8.57866  (13070106)
        479901.50   3774713.98        8.69304  (13070106)                479951.50
3774713.98        8.78830  (13070106)
        480001.50   3774713.98        8.82543  (13070106)                480051.50
3774713.98        8.85677  (13070106)
        480101.50   3774713.98        8.85555  (13070106)                480151.50
3774713.98        8.81212  (13070106)
        480201.50   3774713.98        8.68091  (13070106)                480251.50
3774713.98        8.83623  (12121608)
        480301.50   3774713.98        9.16845  (12121608)                480351.50
3774713.98       10.50543  (12121607)
        480401.50   3774713.98       11.80107  (12121607)                480451.50
3774713.98       12.86599  (12121607)
        480501.50   3774713.98       13.54781  (12121607)                480551.50
3774713.98       13.75089  (12121607)
        480601.50   3774713.98       13.36234  (12121607)                480651.50
3774713.98       13.57612  (12021321)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                  PAGE 100
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0002957    , L0002958
, L0002959    , L0002960    , L0002961    ,
                 L0002962    , L0002963    , L0002964    , L0002965    , L0002966
, L0002967    , L0002968    , L0002969    ,
                 L0002970    , L0002971    , L0002972    , L0002973    , L0002974
, L0002975    , L0002976    , L0002977    ,
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L0002978 , L0002979 , L0002980 , L0002981 , L0002982
, L0002983 , L0002984 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480701.50	3774713.98	13.79593	(12021321)	480751.50	3774713.98	14.89452	(14022508)
480801.50	3774713.98	14.59649	(14022508)	480851.50	3774713.98	13.36224	(14022508)
480901.50	3774713.98	12.08634	(12121601)	480951.50	3774713.98	12.71972	(12121601)
481001.50	3774713.98	12.42857	(12121601)	481051.50	3774713.98	11.80794	(12031723)
481101.50	3774713.98	13.25771	(12041201)	481151.50	3774713.98	13.87698	(12071219)
481201.50	3774713.98	14.27968	(12071219)	481251.50	3774713.98	14.38896	(12071219)
481301.50	3774713.98	13.93288	(12071219)	481351.50	3774713.98	13.59159	(14040821)
481401.50	3774713.98	13.63962	(12071222)	481451.50	3774713.98	13.53300	(12071222)
481501.50	3774713.98	13.51274	(12071222)	479301.50	3774763.98	6.44756	(14011322)
479351.50	3774763.98	6.71426	(14011322)	479401.50	3774763.98	6.92103	(14011322)
479451.50	3774763.98	7.10048	(14011322)	479501.50	3774763.98	7.24744	(14011322)
479551.50	3774763.98	7.33075	(14011322)	479601.50	3774763.98	7.40548	(14011322)
479651.50	3774763.98	7.40908	(14011322)	479701.50	3774763.98	7.49943	(13070106)
479751.50	3774763.98	7.68303	(13070106)	479801.50	3774763.98	7.81639	(13070106)
479851.50	3774763.98	7.87421	(13070106)	479901.50	3774763.98	7.89634	(13070106)
479951.50	3774763.98	7.92060	(13070106)	480001.50	3774763.98	7.89629	(13070106)
480051.50	3774763.98	7.86664	(13070106)	480101.50	3774763.98	7.76414	(13070106)
480151.50	3774763.98	7.63062	(12121608)	480201.50	3774763.98	7.96970	(12121608)
480251.50	3774763.98	8.24311	(12121608)	480301.50	3774763.98	9.21711	(12121607)

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        480351.50   3774763.98       10.37110  (12121607)               480401.50
3774763.98       11.30601  (12121607)
        480451.50   3774763.98       11.99600  (12121607)               480501.50
3774763.98       12.33647  (12121607)
        480551.50   3774763.98       12.30562  (12121607)               480601.50
3774763.98       11.78384  (12121607)
        480651.50   3774763.98       12.26416  (12021321)               480701.50
3774763.98       12.35478  (14022508)
        480751.50   3774763.98       13.30973  (14022508)               480801.50
3774763.98       13.16599  (14022508)
        480851.50   3774763.98       12.29425  (14022508)               480901.50
3774763.98       11.19237  (14022508)
        480951.50   3774763.98       11.26830  (12121601)               481001.50
3774763.98       11.41443  (12121601)
        481051.50   3774763.98       11.03786  (12121601)               481101.50
3774763.98       12.41971  (12031723)
        481151.50   3774763.98       12.58100  (12041201)               481201.50
3774763.98       13.24156  (12080105)
        481251.50   3774763.98       13.41280  (12071219)               481301.50
3774763.98       13.54293  (12071219)
        481351.50   3774763.98       13.26776  (12071219)               481401.50
3774763.98       13.08708  (14040821)
        481451.50   3774763.98       12.97084  (14040821)               481501.50
3774763.98       12.92002  (12071222)
        479301.50   3774813.98        6.29073  (14011322)               479351.50
3774813.98        6.44972  (14011322)
        479401.50   3774813.98        6.54797  (14011322)               479451.50
3774813.98        6.63205  (14011322)
        479501.50   3774813.98        6.66798  (14011322)               479551.50
3774813.98        6.68601  (14011322)
        479601.50   3774813.98        6.76552  (13070106)               479651.50
3774813.98        6.93374  (13070106)
        479701.50   3774813.98        7.05877  (13070106)               479751.50
3774813.98        7.11744  (13070106)
        479801.50   3774813.98        7.15756  (13070106)               479851.50
3774813.98        7.14940  (13070106)
        479901.50   3774813.98        7.12869  (13070106)               479951.50
3774813.98        7.09024  (13070106)
        480001.50   3774813.98        7.00717  (13070106)               480051.50
3774813.98        6.90470  (13070106)
        480101.50   3774813.98        6.97039  (12121608)               480151.50
3774813.98        7.25415  (12121608)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                       ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:46:25

                                  PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: OFFSITE ***
                                INCLUDING SOURCE(S):   L0002957   , L0002958
, L0002959   , L0002960   , L0002961   ,
                  L0002962   , L0002963   , L0002964   , L0002965   , L0002966
, L0002967   , L0002968   , L0002969   ,
                  L0002970   , L0002971   , L0002972   , L0002973   , L0002974
, L0002975   , L0002976   , L0002977   ,
                  L0002978   , L0002979   , L0002980   , L0002981   , L0002982
, L0002983   , L0002984   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        480201.50   3774813.98   7.47454 (12121608)   480251.50
3774813.98   8.14260 (12121607)
        480301.50   3774813.98   9.17662 (12121607)   480351.50
3774813.98   10.06654 (12121607)
        480401.50   3774813.98   10.70922 (12121607)   480451.50
3774813.98   11.12985 (12121607)
        480501.50   3774813.98   11.24499 (12121607)   480551.50
3774813.98   11.05799 (12121607)
        480601.50   3774813.98   10.60756 (12021321)   480651.50
3774813.98   11.16404 (12021321)
        480701.50   3774813.98   11.23985 (14022508)   480751.50
3774813.98   12.03760 (14022508)
        480801.50   3774813.98   11.98930 (14022508)   480851.50
3774813.98   11.35112 (14022508)
        480901.50   3774813.98   10.50750 (14022508)   480951.50
3774813.98   9.96973 (12121601)
        481001.50   3774813.98   10.54410 (12121601)   481051.50
3774813.98   12.43426 (12121601)
        481101.50   3774813.98   11.94005 (12121601)   481151.50
3774813.98   11.98781 (12041203)
        481201.50   3774813.98   12.18149 (12081701)   481251.50
3774813.98   12.61054 (12081701)
        481301.50   3774813.98   12.43634 (12071219)   481351.50
3774813.98   12.66993 (12071219)
        481401.50   3774813.98   12.47519 (12071219)   481451.50
3774813.98   12.52948 (14040821)
        481501.50   3774813.98   12.36020 (14040821)   479301.50
3774863.98   5.95464 (14011322)
        479351.50   3774863.98   6.02651 (14011322)   479401.50
3774863.98   6.04528 (14011322)
        479451.50   3774863.98   6.06296 (14011322)   479501.50

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3774863.98        6.14011  (13070106)
        479551.50   3774863.98        6.31508  (13070106)                479601.50
3774863.98        6.42047  (13070106)
        479651.50   3774863.98        6.47917  (13070106)                479701.50
3774863.98        6.51703  (13070106)
        479751.50   3774863.98        6.50813  (13070106)                479801.50
3774863.98        6.49711  (13070106)
        479851.50   3774863.98        6.44747  (13070106)                479901.50
3774863.98        6.38318  (13070106)
        479951.50   3774863.98        6.29420  (13070106)                480001.50
3774863.98        6.17027  (13070106)
        480051.50   3774863.98        6.42143  (12121608)                480101.50
3774863.98        6.65102  (12121608)
        480151.50   3774863.98        6.83354  (12121608)                480201.50
3774863.98        7.18700  (12121607)
        480251.50   3774863.98        8.19281  (12121607)                480301.50
3774863.98        9.00553  (12121607)
        480351.50   3774863.98        9.65600  (12121607)                480401.50
3774863.98       10.07807  (12121607)
        480451.50   3774863.98       10.29618  (12121607)                480501.50
3774863.98       10.27492  (12121607)
        480551.50   3774863.98       10.01071  (12121607)                480601.50
3774863.98        9.86023  (12021321)
        480651.50   3774863.98       10.23716  (12021321)                480701.50
3774863.98       10.29823  (14022508)
        480751.50   3774863.98       10.98875  (14022508)                480801.50
3774863.98       11.00294  (14022508)
        480851.50   3774863.98       10.53716  (14022508)                480901.50
3774863.98        9.87673  (14022508)
        480951.50   3774863.98        9.19688  (14022508)                481001.50
3774863.98       11.06501  (13102821)
        481051.50   3774863.98       11.82356  (12121601)                481101.50
3774863.98       12.02269  (12121601)
        481151.50   3774863.98       11.76795  (12041203)                481201.50
3774863.98       11.32260  (12041203)
        481251.50   3774863.98       11.98725  (12081701)                481301.50
3774863.98       12.30687  (12081701)
        481351.50   3774863.98       12.14334  (12081701)                481401.50
3774863.98       11.90566  (12071219)
        481451.50   3774863.98       11.72687  (12071219)                481501.50
3774863.98       11.88718  (14040821)
        479301.50   3774913.98        5.51350  (14011322)                479351.50
3774913.98        5.52470  (14011322)
        479401.50   3774913.98        5.60392  (13070106)                479451.50
3774913.98        5.76799  (13070106)
        479501.50   3774913.98        5.87145  (13070106)                479551.50
3774913.98        5.94695  (13070106)
        479601.50   3774913.98        5.97033  (13070106)                479651.50
3774913.98        5.96515  (13070106)
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                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
                                INCLUDING SOURCE(S):   L0002957   , L0002958 , L0002959   , L0002960   , L0002961   ,
                 L0002962   , L0002963   , L0002964   , L0002965   , L0002966 , L0002967   , L0002968   , L0002969   ,
                 L0002970   , L0002971   , L0002972   , L0002973   , L0002974 , L0002975   , L0002976   , L0002977   ,
                 L0002978   , L0002979   , L0002980   , L0002981   , L0002982 , L0002983   , L0002984   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        479701.50   3774913.98   5.95323 (13070106)   479751.50   3774913.98   5.90661 (13070106)
        479801.50   3774913.98   5.85930 (13070106)   479851.50   3774913.98   5.77361 (13070106)
        479901.50   3774913.98   5.66800 (13070106)   479951.50   3774913.98   5.65451 (12121608)
        480001.50   3774913.98   5.94344 (12121608)   480051.50   3774913.98   6.14793 (12121608)
        480101.50   3774913.98   6.29100 (12121608)   480151.50   3774913.98   6.51617 (13021806)
        480201.50   3774913.98   7.30840 (12121607)   480251.50   3774913.98   8.12445 (12121607)
        480301.50   3774913.98   8.73453 (12121607)   480351.50   3774913.98   9.18784 (12121607)
        480401.50   3774913.98   9.45968 (12121607)   480451.50   3774913.98   9.52892 (12121607)
        480501.50   3774913.98   9.43482 (12121607)   480551.50   3774913.98   9.12772 (12121607)
        480601.50   3774913.98   9.19375 (12021321)   480651.50   3774913.98   9.44825 (12021321)
        480701.50   3774913.98   9.51988 (14022508)   480751.50   3774913.98   10.10929 (14022508)
        480801.50   3774913.98   10.15895 (14022508)   480851.50   3774913.98   9.82340 (14022508)

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        480901.50   3774913.98        9.29675  (14022508)              480951.50
3774913.98        8.74168  (14022508)
        481001.50   3774913.98       10.25046  (13102821)              481051.50
3774913.98       10.93866  (12121601)
        481101.50   3774913.98       11.58977  (12121601)              481151.50
3774913.98       11.32329  (12041203)
        481201.50   3774913.98       11.39813  (12041203)              481251.50
3774913.98       11.02864  (12081701)
        481301.50   3774913.98       11.53935  (12081701)              481351.50
3774913.98       11.76610  (12081701)
        481401.50   3774913.98       11.63836  (12081701)              481451.50
3774913.98       11.42329  (12091001)
        481501.50   3774913.98       11.43283  (12091001)              479301.50
3774963.98        5.14217  (13070106)
        479351.50   3774963.98        5.29490  (13070106)              479401.50
3774963.98        5.39415  (13070106)
        479451.50   3774963.98        5.47014  (13070106)              479501.50
3774963.98        5.49807  (13070106)
        479551.50   3774963.98        5.51103  (13070106)              479601.50
3774963.98        5.48700  (13070106)
        479651.50   3774963.98        5.44534  (13070106)              479701.50
3774963.98        5.40157  (13070106)
        479751.50   3774963.98        5.33229  (13070106)              479801.50
3774963.98        5.24638  (13070106)
        479851.50   3774963.98        5.12740  (13070106)              479901.50
3774963.98        5.26287  (12121608)
        479951.50   3774963.98        5.52100  (12121608)              480001.50
3774963.98        5.70825  (12121608)
        480051.50   3774963.98        5.83464  (12121608)              480101.50
3774963.98        5.93243  (13021806)
        480151.50   3774963.98        6.53953  (12121607)              480201.50
3774963.98        7.32548  (12121607)
        480251.50   3774963.98        7.96010  (12121607)              480301.50
3774963.98        8.39794  (12121607)
        480351.50   3774963.98        8.69924  (12121607)              480401.50
3774963.98        8.85077  (12121607)
        480451.50   3774963.98        8.83514  (12121607)              480501.50
3774963.98        8.69049  (12121607)
        480551.50   3774963.98        8.39322  (12121607)              480601.50
3774963.98        8.60049  (12021321)
        480651.50   3774963.98        8.77111  (12021321)              480701.50
3774963.98        8.85221  (14022508)
        480751.50   3774963.98        9.36015  (14022508)              480801.50
3774963.98        9.44278  (14022508)
        480851.50   3774963.98        9.19406  (14022508)              480901.50
3774963.98        8.76120  (14022508)
        480951.50   3774963.98        9.13100  (13102821)              481001.50
3774963.98       10.48386  (13102821)
        481051.50   3774963.98       11.17579  (13102821)              481101.50
3774963.98       11.20507  (12011117)
        481151.50   3774963.98       11.07973  (13070304)              481201.50
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE ***
                                   INCLUDING SOURCE(S):   L0002957   , L0002958
, L0002959   , L0002960   , L0002961   ,
                  L0002962   , L0002963   , L0002964   , L0002965   , L0002966
, L0002967   , L0002968   , L0002969   ,
                  L0002970   , L0002971   , L0002972   , L0002973   , L0002974
, L0002975   , L0002976   , L0002977   ,
                  L0002978   , L0002979   , L0002980   , L0002981   , L0002982
, L0002983   , L0002984   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        481451.50   3774963.98   11.21485 (13020223)   480801.50
3775013.98   8.80784 (14022508)
        480851.50   3775013.98   8.61602 (14022508)   480901.50
3775013.98   8.27551 (14022508)
        480951.50   3775013.98   8.35108 (13102821)   481001.50
3775013.98   9.74387 (13102821)
        481051.50   3775013.98   10.65634 (13102821)   481101.50
3775013.98   11.02866 (12011117)
        481151.50   3775013.98   10.82713 (12011117)   481201.50
3775013.98   10.83695 (13070304)
        481251.50   3775013.98   10.78765 (12041203)   481301.50
3775013.98   10.69241 (12121724)
        481351.50   3775013.98   10.71786 (13020223)   481401.50
3775013.98   11.00866 (13020223)
        481451.50   3775013.98   10.98464 (13020223)   480801.50
3775063.98   8.26430 (14022508)
        480851.50   3775063.98   8.11330 (14022508)   480901.50

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3775063.98        8.77065  (14022508)
        480951.50   3775063.98        8.44010  (14022508)                481001.50
3775063.98        9.17525  (13102821)
        481051.50   3775063.98       10.11379  (15090206)                481101.50
3775063.98       10.58317  (15090206)
        481151.50   3775063.98       10.64752  (12011117)                481201.50
3775063.98       10.62649  (13070304)
        481251.50   3775063.98       10.57009  (13070304)                481301.50
3775063.98       10.56421  (12121724)
        481351.50   3775063.98       10.60864  (12121724)                481401.50
3775063.98       10.49407  (13030404)
        481451.50   3775063.98       10.61979  (13020223)                480801.50
3775113.98        7.79777  (14022508)
        480851.50   3775113.98        8.97758  (14022508)                480901.50
3775113.98        8.97408  (14022508)
        480951.50   3775113.98        8.29695  (14022508)                481001.50
3775113.98        8.99143  (12121508)
        481051.50   3775113.98        9.60954  (15090206)                481101.50
3775113.98       10.26750  (15090206)
        481151.50   3775113.98       10.45531  (15090206)                481201.50
3775113.98       10.47033  (13070304)
        481251.50   3775113.98       10.46513  (13070304)                481301.50
3775113.98       10.19937  (12121724)
        481351.50   3775113.98       10.41273  (12121724)                481401.50
3775113.98       10.27270  (12121724)
        481451.50   3775113.98       10.14870  (13030404)                480801.50
3775163.98        8.57265  (14022508)
        480851.50   3775163.98        9.01198  (14022508)                480901.50
3775163.98        8.78021  (14022508)
        480951.50   3775163.98        8.48539  (14022508)                481001.50
3775163.98        8.92879  (12051104)
        481051.50   3775163.98        9.42225  (12121508)                481101.50
3775163.98        9.83308  (15090206)
        481151.50   3775163.98       10.24160  (15090206)                481201.50
3775163.98       10.16068  (15090206)
        481251.50   3775163.98       10.26690  (13070304)                481301.50
3775163.98       10.03801  (13070304)
        481351.50   3775163.98       10.07725  (13090906)                481401.50
3775163.98       10.13976  (12121724)
        481451.50   3775163.98        9.92195  (12121724)                480801.50
3775213.98        8.52750  (14022508)
        480851.50   3775213.98        8.95032  (14022508)                480901.50
3775213.98        8.88369  (14022508)
        480951.50   3775213.98        8.76079  (12110907)                481001.50
3775213.98        8.88398  (12051104)
        481051.50   3775213.98        9.22938  (12051104)                481101.50
3775213.98        9.60849  (14061903)
        481151.50   3775213.98       10.00504  (12091722)                481201.50
3775213.98       10.08948  (12091722)
        481251.50   3775213.98        9.99772  (13070304)                481301.50
3775213.98        9.88274  (13070304)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0002957 , L0002958 , L0002959 , L0002960 , L0002961 ,
L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 , L0002968 , L0002969 ,
L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 , L0002976 , L0002977 ,
L0002978 , L0002979 , L0002980 , L0002981 , L0002982 , L0002983 , L0002984 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481251.50	3775263.98	9.84123	(12091722)	481301.50	3775263.98	9.68067	(13070304)
481351.50	3775263.98	9.90576	(13090906)	481401.50	3775263.98	9.95510	(13090906)
481451.50	3775263.98	9.74782	(13090906)	480801.50	3775313.98	8.51497	(14022508)
480851.50	3775313.98	8.74311	(14022508)	480901.50	3775313.98	8.71176	(14022508)
480951.50	3775313.98	8.92649	(12110907)	481001.50	3775313.98	9.19338	(13020301)

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        481051.50   3775313.98        9.29259  (12051104)              481101.50
3775313.98        9.57830  (13070104)
        481151.50   3775313.98        9.62745  (14061903)              481201.50
3775313.98        9.82761  (12091722)
        481251.50   3775313.98        9.82039  (12091722)              481301.50
3775313.98        9.50532  (12091722)
        481351.50   3775313.98        9.73454  (13040703)              481401.50
3775313.98        9.89909  (13090906)
        480801.50   3775363.98        8.35776  (14022508)              480851.50
3775363.98        8.58732  (14022508)
        480901.50   3775363.98        8.63037  (12110907)              480951.50
3775363.98        8.95780  (12110907)
        481001.50   3775363.98        9.07078  (13020301)              481051.50
3775363.98        9.26777  (13020301)
        481101.50   3775363.98        9.51600  (13070104)              481151.50
3775363.98        9.43133  (13070104)
        481201.50   3775363.98        9.53779  (12091722)              481251.50
3775363.98        9.67582  (12091722)
        481301.50   3775363.98        9.58717  (12062624)              481351.50
3775363.98        9.53523  (13040703)
        481401.50   3775363.98        9.62376  (13090906)              480801.50
3775413.98        8.21628  (14022508)
        480851.50   3775413.98        8.36182  (14022508)              480901.50
3775413.98        8.54265  (12110907)
        480951.50   3775413.98        8.83610  (12110907)              481001.50
3775413.98        9.15792  (13020301)
        481051.50   3775413.98        9.31269  (13020301)              481101.50
3775413.98        9.34131  (13070104)
        481151.50   3775413.98        9.45479  (13070104)              481201.50
3775413.98        9.40894  (12051523)
        481251.50   3775413.98        9.53086  (12091722)              481301.50
3775413.98        9.38120  (12062624)
        481351.50   3775413.98        9.37304  (12081106)              481401.50
3775413.98        9.45360  (13040703)
        480801.50   3775463.98        7.98534  (14022508)              480851.50
3775463.98        8.16543  (14022508)
        480901.50   3775463.98        8.45273  (12110907)              480951.50
3775463.98        8.77037  (12110907)
        481001.50   3775463.98        8.90872  (13020301)              481051.50
3775463.98        9.16392  (13020301)
        481101.50   3775463.98        9.20513  (13070104)              481151.50
3775463.98        9.29221  (13070104)
        481201.50   3775463.98        9.31528  (13052903)              481251.50
3775463.98        9.29695  (12051523)
        481301.50   3775463.98        9.30400  (12062624)              481351.50
3775463.98        9.18570  (12081106)
        481401.50   3775463.98        9.17013  (13040703)              480801.50
3775513.98        7.77484  (14022508)
        480851.50   3775513.98        7.96096  (12092501)              480901.50
3775513.98        8.41554  (12110907)
        480951.50   3775513.98        8.58123  (12110907)              481001.50
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3775513.98 8.85360 (13020301)
  481051.50 3775513.98 9.12490 (13020301) 481101.50
3775513.98 9.05890 (13020301)
  481151.50 3775513.98 9.23151 (13070104) 481201.50
3775513.98 9.12727 (13052903)
  481251.50 3775513.98 9.21503 (12051523) 481301.50
3775513.98 9.09153 (12062624)
  481351.50 3775513.98 9.09459 (12081106) 481401.50
3775513.98 9.13823 (12081106)
  480801.50 3775563.98 7.77821 (12110906) 480851.50
3775563.98 8.05012 (12092501)
  480901.50 3775563.98 8.20717 (12092501) 480951.50
3775563.98 8.43004 (12110907)
  481001.50 3775563.98 8.58920 (14022324) 481051.50
3775563.98 8.93533 (13020301)
  481101.50 3775563.98 9.01618 (13020301) 481151.50
3775563.98 9.01111 (13070104)
  481201.50 3775563.98 8.99571 (13070104) 481251.50
3775563.98 9.06266 (13052903)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0002957 , L0002958 , L0002959 , L0002960 , L0002961 ,
L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 , L0002968 , L0002969 ,
L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 , L0002976 , L0002977 ,
L0002978 , L0002979 , L0002980 , L0002981 , L0002982 , L0002983 , L0002984 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3775563.98	8.95382	(12051523)	481351.50	3775563.98	9.17302	(12081106)
481401.50	3775563.98	9.21556	(12081106)	479332.46			

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3774240.22        7.63309  (12030223)
        479382.46   3774240.22        7.97922  (12030223)                479432.46
3774240.22        8.39628  (12030223)
        479482.46   3774240.22        8.80221  (12030223)                479532.46
3774240.22        9.30376  (12030223)
        479582.46   3774240.22        9.79317  (12030223)                479632.46
3774240.22       10.36017  (12030223)
        479682.46   3774240.22       11.00077  (12030223)                479732.46
3774240.22       11.66780  (12030223)
        479782.46   3774240.22       12.50439  (12030223)                479832.46
3774240.22       13.35395  (12030223)
        479882.46   3774240.22       14.31737  (12030223)                479932.46
3774240.22       15.42010  (12030223)
        479332.46   3774290.22        7.48438  (12030223)                479382.46
3774290.22        7.84476  (12030223)
        479432.46   3774290.22        8.18579  (12030223)                479482.46
3774290.22        8.55602  (12030223)
        479532.46   3774290.22        9.00611  (12030223)                479582.46
3774290.22        9.43961  (12030223)
        479632.46   3774290.22        9.97588  (12030223)                479682.46
3774290.22       10.49837  (14022723)
        479732.46   3774290.22       11.24541  (14022723)                479782.46
3774290.22       12.14107  (14022723)
        479832.46   3774290.22       13.08788  (14022723)                479882.46
3774290.22       14.15017  (14022723)
        479932.46   3774290.22       15.41725  (14022723)                479332.46
3774340.22        7.40168  (14022723)
        479382.46   3774340.22        7.82331  (14022723)                479432.46
3774340.22        8.23484  (14022723)
        479482.46   3774340.22        8.69954  (14022723)                479532.46
3774340.22        9.21165  (14022723)
        479582.46   3774340.22        9.73402  (14022723)                479632.46
3774340.22       10.36217  (14022723)
        479682.46   3774340.22       10.98372  (14022723)                479732.46
3774340.22       11.71610  (14022723)
        479782.46   3774340.22       12.43597  (14022723)                479832.46
3774340.22       13.22509  (14022723)
        479882.46   3774340.22       14.11712  (14022723)                479932.46
3774340.22       15.04573  (14022723)
        479332.46   3774390.22        7.61427  (14022723)                479382.46
3774390.22        7.97828  (14022723)
        479432.46   3774390.22        8.33687  (14022723)                479482.46
3774390.22        8.76265  (14022723)
        479532.46   3774390.22        9.16071  (14022723)                479582.46
3774390.22        9.61782  (14022723)
        479632.46   3774390.22       10.06637  (14022723)                479682.46
3774390.22       10.57717  (14022723)
        479732.46   3774390.22       11.03812  (14022723)                479782.46
3774390.22       11.91514  (12040703)
        479832.46   3774390.22       12.91618  (12040703)                479882.46
3774390.22       13.97565  (12040703)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0001976 , L0001977 , L0001978 , L0001979 , L0001980 , L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 , L0001987 , L0001988 , L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480415.97	3774200.25	176.03671	(12021516)	480386.35	3774201.62	137.81286	(12021516)
480364.52	3774200.25	107.93011	(12021516)	480441.34	3774196.20	190.65472	(12021516)
480332.65	3774203.34	102.72667	(16123116)	480281.98	3774208.10	98.32800	(16123116)
480259.39	3774210.95	91.92646	(16123116)	480179.23	3774215.23	61.88003	(16123116)
479777.13	3774155.68	18.60492	(12012824)	479903.88	3774153.05	23.18409	(12012822)
479888.73	3774072.72	24.19209	(16123116)	480286.74	3774147.78	64.70121	(14021308)
480415.64	3774088.13	86.40686	(16121116)	480408.03	3774009.17	60.92758	(16121116)
480445.38	3774004.65	72.63594	(13112916)	480447.28	3774028.67	78.97979	(13112916)
480276.83	3774266.75	95.45112	(16123116)	480151.33	3774266.75	48.03309	(12111302)
480135.30	3774266.75	45.75953	(12111302)	479301.50	3774413.98	10.06158	(12030223)
479351.50	3774413.98	10.68307	(12030223)	479401.50	3774413.98	11.29496	(12030223)
479451.50	3774413.98	12.00082	(12030223)	479501.50			

3774413.98 12.80386 (12030223)
479551.50 3774413.98 13.64000 (12030223) 479601.50
3774413.98 14.68283 (12030223)
479651.50 3774413.98 15.74844 (12030223) 479701.50
3774413.98 17.07239 (12030223)
479751.50 3774413.98 18.44758 (12030223) 479801.50
3774413.98 20.02717 (12030223)
479851.50 3774413.98 22.13842 (14022723) 479901.50
3774413.98 24.60920 (14022723)
479951.50 3774413.98 27.75042 (14022723) 480001.50
3774413.98 31.29902 (14022723)
480051.50 3774413.98 35.82010 (14022723) 480101.50
3774413.98 41.41799 (14022723)
480151.50 3774413.98 49.63611 (15022217) 480201.50
3774413.98 61.36999 (15022217)
480251.50 3774413.98 77.86421 (12012316) 480301.50
3774413.98 105.59978 (12012316)
480351.50 3774413.98 143.30995 (12012316) 480401.50
3774413.98 187.42012 (12012316)
480451.50 3774413.98 296.46019 (14120316) 480501.50
3774413.98 397.04701 (14120316)
480551.50 3774413.98 392.33663 (13042407) 480601.50
3774413.98 517.78603 (12022716)
480651.50 3774413.98 478.23033 (12022716) 480701.50
3774413.98 254.72760 (12031716)
480751.50 3774413.98 187.14809 (12031716) 480801.50
3774413.98 131.16650 (12031716)
480851.50 3774413.98 84.88380 (12031716) 480901.50
3774413.98 69.52582 (12081222)
480951.50 3774413.98 58.36451 (14102317) 481001.50
3774413.98 49.92866 (14102317)
481051.50 3774413.98 44.70965 (14102317) 481101.50
3774413.98 39.93789 (14102317)
481151.50 3774413.98 40.11558 (14102317) 481201.50
3774413.98 41.75247 (14102317)
481251.50 3774413.98 38.80781 (12082720) 481301.50
3774413.98 36.36242 (12082720)
481351.50 3774413.98 34.38058 (12082720) 481401.50
3774413.98 32.03496 (12082720)
481451.50 3774413.98 30.63555 (12082920) 479301.50
3774463.98 9.73099 (14022723)
479351.50 3774463.98 10.38824 (14022723) 479401.50
3774463.98 11.04647 (14022723)
479451.50 3774463.98 11.84208 (14022723) 479501.50
3774463.98 12.65413 (14022723)
479551.50 3774463.98 13.61057 (14022723) 479601.50
3774463.98 14.64718 (14022723)
479651.50 3774463.98 15.77729 (14022723) 479701.50
3774463.98 17.15756 (14022723)
479751.50 3774463.98 18.59361 (14022723) 479801.50
3774463.98 20.36389 (14022723)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0001976 , L0001977 , L0001978 , L0001979 , L0001980 ,
L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 , L0001987 , L0001988 ,
L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479851.50	3774463.98	22.24117	(14022723)	479901.50	3774463.98	24.44794	(14022723)
479951.50	3774463.98	27.03588	(14022723)	480001.50	3774463.98	30.47792	(12040703)
480051.50	3774463.98	35.14867	(14011323)	480101.50	3774463.98	40.56929	(14011323)
480151.50	3774463.98	47.41313	(14011323)	480201.50	3774463.98	55.22412	(14011323)
480251.50	3774463.98	64.85799	(14011322)	480301.50	3774463.98	80.21584	(14011322)
480351.50	3774463.98	105.28093	(14120316)	480401.50	3774463.98	139.27290	(14120316)
480451.50	3774463.98	164.20265	(14120316)	480501.50	3774463.98	183.71313	(12121607)
480551.50	3774463.98	208.31304	(13042407)	480601.50	3774463.98	216.90045	(12022716)
480651.50	3774463.98	276.44651	(12022716)	480701.50	3774463.98	226.25734	(12022716)
480751.50	3774463.98	127.11313	(12092019)	480801.50	3774463.98	106.09100	(12031716)
480851.50	3774463.98	91.04443	(12031716)	480901.50	3774463.98	73.98352	(12031716)
480951.50	3774463.98	56.89496	(12031716)	481001.50	3774463.98	44.82868	(12081120)
481051.50	3774463.98	41.54670	(12081120)	481101.50			

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3774463.98       36.50062  (12060722)
        481151.50   3774463.98       37.81070  (12060722)                481201.50
3774463.98       40.75669  (12100407)
        481251.50   3774463.98       37.87088  (12100407)                481301.50
3774463.98       35.37114  (12090821)
        481351.50   3774463.98       33.88013  (12081521)                481401.50
3774463.98       31.99078  (12081521)
        481451.50   3774463.98       30.53371  (12081521)                481501.50
3774463.98       29.20061  (12081521)
        479301.50   3774513.98        9.98494  (14022723)                479351.50
3774513.98       10.58458  (14022723)
        479401.50   3774513.98       11.19604  (14022723)                479451.50
3774513.98       11.93430  (14022723)
        479501.50   3774513.98       12.66292  (14022723)                479551.50
3774513.98       13.51956  (14022723)
        479601.50   3774513.98       14.41670  (14022723)                479651.50
3774513.98       15.47275  (14022723)
        479701.50   3774513.98       16.52092  (14022723)                479751.50
3774513.98       18.03866  (12040703)
        479801.50   3774513.98       19.94617  (12040703)                479851.50
3774513.98       21.94068  (14011323)
        479901.50   3774513.98       24.49529  (14011323)                479951.50
3774513.98       27.15346  (14011323)
        480001.50   3774513.98       30.29763  (14011323)                480051.50
3774513.98       33.61597  (14011323)
        480101.50   3774513.98       37.17953  (14011322)                480151.50
3774513.98       43.45136  (14011322)
        480201.50   3774513.98       49.79377  (14011322)                480251.50
3774513.98       55.53590  (14011322)
        480301.50   3774513.98       67.00079  (14120316)                480351.50
3774513.98       79.83354  (14120316)
        480401.50   3774513.98       86.66299  (14120316)                480451.50
3774513.98      113.48124  (12121607)
        480501.50   3774513.98      121.54382  (12121607)                480551.50
3774513.98      138.79174  (14022508)
        480601.50   3774513.98      138.54856  (14022508)                480651.50
3774513.98      154.42232  (12022716)
        480701.50   3774513.98      170.06063  (12022716)                480751.50
3774513.98      135.02560  (12022716)
        480801.50   3774513.98       86.26183  (12092019)                480851.50
3774513.98       67.84083  (12092019)
        480901.50   3774513.98       58.82292  (12031716)                480951.50
3774513.98       54.45112  (12031716)
        481001.50   3774513.98       48.18172  (12031716)                481051.50
3774513.98       41.24512  (12082819)
        481101.50   3774513.98       40.22632  (15073021)                481151.50
3774513.98       42.71774  (12081120)
        481201.50   3774513.98       40.61184  (12081120)                481251.50
3774513.98       38.19944  (12082921)
        481301.50   3774513.98       36.11560  (12082921)                481351.50
3774513.98       33.51451  (12100407)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0001976 , L0001977 , L0001978 , L0001979 , L0001980 , L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 , L0001987 , L0001988 , L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481401.50	3774513.98	32.16259	(12100407)	481451.50	3774513.98	29.84574	(12092122)
481501.50	3774513.98	28.92169	(12092122)	481551.50	3774513.98	26.77089	(12092122)
479301.50	3774563.98	9.80831	(14022723)	479351.50	3774563.98	10.32476	(14022723)
479401.50	3774563.98	10.84909	(14022723)	479451.50	3774563.98	11.46141	(12040703)
479501.50	3774563.98	12.30234	(12040703)	479551.50	3774563.98	13.28395	(12040703)
479601.50	3774563.98	14.31536	(12040703)	479651.50	3774563.98	15.52846	(14011323)
479701.50	3774563.98	16.80635	(14011323)	479751.50	3774563.98	18.24365	(14011323)
479801.50	3774563.98	19.83076	(14011323)	479851.50	3774563.98	21.42670	(14011323)
479901.50	3774563.98	23.28289	(14011323)	479951.50	3774563.98	24.98829	(14011323)
480001.50	3774563.98	28.20742	(14011322)	480051.50	3774563.98	31.55872	(14011322)
480101.50	3774563.98	35.10196	(14011322)	480151.50	3774563.98	37.98157	(14011322)
480201.50	3774563.98	41.26212	(13070106)	480251.50	3774563.98	45.51436	(14120316)
480301.50	3774563.98	50.82650	(14120316)	480351.50			

3774563.98 52.59314 (14120316)
480401.50 3774563.98 73.76725 (12121607) 480451.50
3774563.98 88.65852 (12121607)
480501.50 3774563.98 89.32785 (12021321) 480551.50
3774563.98 103.23730 (14022508)
480601.50 3774563.98 104.44200 (14022508) 480651.50
3774563.98 91.99604 (12121601)
480701.50 3774563.98 113.17566 (12022716) 480751.50
3774563.98 114.93880 (12022716)
480801.50 3774563.98 89.39526 (12022716) 480851.50
3774563.98 63.39514 (12092019)
480901.50 3774563.98 53.41688 (12092019) 480951.50
3774563.98 43.07441 (12052222)
481001.50 3774563.98 41.90811 (12060724) 481051.50
3774563.98 42.08615 (12082819)
481101.50 3774563.98 46.20299 (12082819) 481151.50
3774563.98 43.06517 (12082819)
481201.50 3774563.98 39.27639 (14061006) 481251.50
3774563.98 37.73236 (14061006)
481301.50 3774563.98 36.06902 (14061006) 481351.50
3774563.98 33.22874 (12082921)
481401.50 3774563.98 31.99078 (12082921) 481451.50
3774563.98 30.88367 (12071820)
481501.50 3774563.98 28.87670 (12071820) 481551.50
3774563.98 27.47454 (12071820)
479301.50 3774613.98 9.70448 (12040703) 479351.50
3774613.98 10.30396 (12040703)
479401.50 3774613.98 10.98973 (12040703) 479451.50
3774613.98 11.69969 (14011323)
479501.50 3774613.98 12.48491 (14011323) 479551.50
3774613.98 13.39812 (14011323)
479601.50 3774613.98 14.28389 (14011323) 479651.50
3774613.98 15.31485 (14011323)
479701.50 3774613.98 16.28039 (14011323) 479751.50
3774613.98 17.37946 (14011323)
479801.50 3774613.98 18.36541 (14011323) 479851.50
3774613.98 20.21372 (14011322)
479901.50 3774613.98 22.24642 (14011322) 479951.50
3774613.98 24.25325 (14011322)
480001.50 3774613.98 26.31908 (14011322) 480051.50
3774613.98 27.91941 (14011322)
480101.50 3774613.98 29.97291 (13070106) 480151.50
3774613.98 32.15752 (13070106)
480201.50 3774613.98 33.07631 (13070106) 480251.50
3774613.98 34.61263 (14120316)
480301.50 3774613.98 38.42951 (12121608) 480351.50
3774613.98 51.03256 (12121607)
480401.50 3774613.98 64.59252 (12121607) 480451.50
3774613.98 67.97853 (12121607)
480501.50 3774613.98 71.72747 (12021321) 480551.50
3774613.98 80.26867 (14022508)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0001976 , L0001977 , L0001978 , L0001979 , L0001980 ,
L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 , L0001987 , L0001988 ,
L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3774613.98	33.57236	(14033124)	481351.50	3774613.98	32.73942	(14061006)
481401.50	3774613.98	31.44329	(14061006)	481451.50	3774613.98	29.98397	(13070105)
481501.50	3774613.98	28.78121	(13070105)	481551.50	3774613.98	27.15065	(12083023)
479301.50	3774663.98	9.81590	(14011323)	479351.50	3774663.98	10.36748	(14011323)
479401.50	3774663.98	10.99847	(14011323)	479451.50	3774663.98	11.60456	(14011323)
479501.50	3774663.98	12.26615	(14011323)	479551.50			

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3774663.98       12.92453  (14011323)
        479601.50   3774663.98       13.58515  (14011323)               479651.50
3774663.98       14.25434  (14011323)
        479701.50   3774663.98       15.36205  (14011322)               479751.50
3774663.98       16.76459  (14011322)
        479801.50   3774663.98       18.09476  (14011322)               479851.50
3774663.98       19.48823  (14011322)
        479901.50   3774663.98       20.68812  (14011322)               479951.50
3774663.98       21.65907  (14011322)
        480001.50   3774663.98       22.96779  (13070106)               480051.50
3774663.98       24.56715  (13070106)
        480101.50   3774663.98       25.50843  (13070106)               480151.50
3774663.98       25.35354  (13070106)
        480201.50   3774663.98       26.26767  (12121608)               480251.50
3774663.98       30.03767  (12121608)
        480301.50   3774663.98       37.17787  (12121607)               480351.50
3774663.98       48.05603  (12121607)
        480401.50   3774663.98       54.30904  (12121607)               480451.50
3774663.98       51.53984  (12121607)
        480501.50   3774663.98       58.86545  (12021321)               480551.50
3774663.98       64.68280  (14022508)
        480601.50   3774663.98       66.73069  (14022508)               480651.50
3774663.98       53.58345  (14022508)
        480701.50   3774663.98       56.81410  (12121601)               480751.50
3774663.98       59.21534  (12022716)
        480801.50   3774663.98       66.14556  (12022716)               480851.50
3774663.98       61.54967  (12022716)
        480901.50   3774663.98       49.24421  (12022716)               480951.50
3774663.98       41.65088  (12092019)
        481001.50   3774663.98       42.21897  (12092019)               481051.50
3774663.98       43.69804  (12092019)
        481101.50   3774663.98       40.87747  (12052222)               481151.50
3774663.98       40.04383  (12052222)
        481201.50   3774663.98       37.66235  (13081722)               481251.50
3774663.98       36.12228  (13081722)
        481301.50   3774663.98       33.25141  (13081722)               481351.50
3774663.98       31.48750  (12081122)
        481401.50   3774663.98       30.55477  (13071323)               481451.50
3774663.98       29.01497  (13071323)
        481501.50   3774663.98       28.40413  (13071823)               481551.50
3774663.98       27.13520  (13071823)
        479301.50   3774713.98        9.67168  (14011323)               479351.50
3774713.98       10.11753  (14011323)
        479401.50   3774713.98       10.59010  (14011323)               479451.50
3774713.98       11.01350  (14011323)
        479501.50   3774713.98       11.49095  (14011323)               479551.50
3774713.98       12.23156  (14011322)
        479601.50   3774713.98       13.22077  (14011322)               479651.50
3774713.98       14.15702  (14011322)
        479701.50   3774713.98       15.13942  (14011322)               479751.50
3774713.98       16.04130  (14011322)
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        479801.50   3774713.98       16.84941  (14011322)               479851.50
3774713.98       17.53969  (14011322)
        479901.50   3774713.98       18.34051  (13070106)               479951.50
3774713.98       19.56761  (13070106)
        480001.50   3774713.98       20.31880  (13070106)               480051.50
3774713.98       20.52821  (13070106)
        480101.50   3774713.98       19.97179  (13070106)               480151.50
3774713.98       21.69126  (12121608)
        480201.50   3774713.98       24.39500  (12121608)               480251.50
3774713.98       28.19418  (12121607)
        480301.50   3774713.98       36.70746  (12121607)               480351.50
3774713.98       43.15716  (12121607)
        480401.50   3774713.98       44.55120  (12121607)               480451.50
3774713.98       42.51675  (12021321)
        480501.50   3774713.98       49.15390  (12021321)               480551.50
3774713.98       53.54955  (14022508)
        480601.50   3774713.98       55.55272  (14022508)               480651.50
3774713.98       46.60226  (14022508)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                   PAGE 110
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                   INCLUDING SOURCE(S):     L0001976    , L0001977
, L0001978    , L0001979    , L0001980    ,
                  L0001981    , L0001982    , L0001983    , L0001984    , L0001985
, L0001986    , L0001987    , L0001988    ,
                  L0001989    , L0001990    , L0001991    ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        480701.50   3774713.98       44.19470  (12121601)               480751.50
3774713.98       47.51639  (12121601)
        480801.50   3774713.98       49.43380  (12022716)               480851.50
3774713.98       52.42716  (12022716)
        480901.50   3774713.98       48.12798  (12022716)               480951.50
3774713.98       41.62050  (12071219)
        481001.50   3774713.98       47.55647  (12071219)               481051.50
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3774713.98 43.40960 (12092019)
481101.50 3774713.98 39.34408 (12092019) 481151.50
3774713.98 37.60270 (12120107)
481201.50 3774713.98 35.50993 (12092123) 481251.50
3774713.98 34.46249 (12092123)
481301.50 3774713.98 32.69461 (12080223) 481351.50
3774713.98 31.46952 (13081722)
481401.50 3774713.98 30.25865 (12081223) 481451.50
3774713.98 28.80973 (12081122)
481501.50 3774713.98 28.19941 (12081122) 479301.50
3774763.98 9.18672 (14011323)
479351.50 3774763.98 9.52555 (14011323) 479401.50
3774763.98 10.04215 (14011322)
479451.50 3774763.98 10.74016 (14011322) 479501.50
3774763.98 11.46604 (14011322)
479551.50 3774763.98 12.15144 (14011322) 479601.50
3774763.98 12.87938 (14011322)
479651.50 3774763.98 13.49391 (14011322) 479701.50
3774763.98 14.08018 (14011322)
479751.50 3774763.98 14.51375 (14011322) 479801.50
3774763.98 15.15050 (13070106)
479851.50 3774763.98 16.03014 (13070106) 479901.50
3774763.98 16.65270 (13070106)
479951.50 3774763.98 16.97640 (13070106) 480001.50
3774763.98 16.76357 (13070106)
480051.50 3774763.98 16.06133 (13070106) 480101.50
3774763.98 18.29645 (12121608)
480151.50 3774763.98 20.32761 (12121608) 480201.50
3774763.98 22.43785 (13021806)
480251.50 3774763.98 28.73759 (12121607) 480301.50
3774763.98 34.51693 (12121607)
480351.50 3774763.98 37.59011 (12121607) 480401.50
3774763.98 36.10255 (12121607)
480451.50 3774763.98 37.68084 (12021321) 480501.50
3774763.98 41.68899 (12021321)
480551.50 3774763.98 45.26419 (14022508) 480601.50
3774763.98 47.18527 (14022508)
480651.50 3774763.98 40.85799 (14022508) 480701.50
3774763.98 34.62034 (13102821)
480751.50 3774763.98 39.35348 (12121601) 480801.50
3774763.98 39.16104 (12121601)
480851.50 3774763.98 41.43523 (12022716) 480901.50
3774763.98 42.58674 (12022716)
480951.50 3774763.98 38.90037 (12041201) 481001.50
3774763.98 43.90719 (12071219)
481051.50 3774763.98 42.74309 (12071219) 481101.50
3774763.98 38.28759 (12111417)
481151.50 3774763.98 35.84656 (12092019) 481201.50
3774763.98 34.89880 (12071222)
481251.50 3774763.98 32.96821 (12120107) 481301.50
3774763.98 32.34024 (12092123)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0001976 , L0001977 , L0001978 , L0001979 , L0001980 ,
L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 , L0001987 , L0001988 ,
L0001989 , L0001990 , L0001991 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481351.50	3774763.98	31.08220	(13090224)	481401.50	3774763.98	29.77936	(13090905)
481451.50	3774763.98	28.83076	(13090822)	481501.50	3774763.98	27.82346	(13090822)
479301.50	3774813.98	8.95917	(14011322)	479351.50	3774813.98	9.53085	(14011322)
479401.50	3774813.98	10.05820	(14011322)	479451.50	3774813.98	10.61050	(14011322)
479501.50	3774813.98	11.11206	(14011322)	479551.50	3774813.98	11.59571	(14011322)
479601.50	3774813.98	11.98845	(14011322)	479651.50	3774813.98	12.27138	(14011322)
479701.50	3774813.98	12.75366	(13070106)	479751.50	3774813.98	13.44657	(13070106)
479801.50	3774813.98	14.01090	(13070106)	479851.50	3774813.98	14.28751	(13070106)
479901.50	3774813.98	14.27276	(13070106)	479951.50	3774813.98	13.89968	(13070106)
480001.50	3774813.98	13.84295	(12121608)	480051.50	3774813.98	15.75157	(12121608)
480101.50	3774813.98	17.26736	(12121608)	480151.50	3774813.98	18.47751	(13021806)
480201.50	3774813.98	22.93458	(12121607)	480251.50	3774813.98	27.98058	(12121607)
480301.50	3774813.98	31.40136	(12121607)	480351.50			

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3774813.98       32.07707  (12121607)
        480401.50   3774813.98       29.15762  (12121607)                480451.50
3774813.98       33.51253  (12021321)
        480501.50   3774813.98       35.82765  (12021321)                480551.50
3774813.98       38.96035  (14022508)
        480601.50   3774813.98       40.67363  (14022508)                480651.50
3774813.98       36.17746  (14022508)
        480701.50   3774813.98       28.43542  (13102821)                480751.50
3774813.98       32.32772  (12121601)
        480801.50   3774813.98       34.18579  (12121601)                480851.50
3774813.98       34.06192  (12121601)
        480901.50   3774813.98       35.16459  (12022716)                480951.50
3774813.98       35.20392  (12022716)
        481001.50   3774813.98       39.88522  (12080105)                481051.50
3774813.98       40.10669  (12071219)
        481101.50   3774813.98       38.78549  (12071219)                481151.50
3774813.98       35.53881  (12111417)
        481201.50   3774813.98       32.72006  (12092019)                481251.50
3774813.98       32.24324  (12071222)
        481301.50   3774813.98       30.92797  (12071222)                481351.50
3774813.98       29.97085  (13090224)
        481401.50   3774813.98       29.71323  (13090224)                481451.50
3774813.98       28.70357  (13090224)
        481501.50   3774813.98       27.13712  (13090905)                479301.50
3774863.98        8.90968  (14011322)
        479351.50   3774863.98        9.34490  (14011322)                479401.50
3774863.98        9.71113  (14011322)
        479451.50   3774863.98       10.08395  (14011322)                479501.50
3774863.98       10.35708  (14011322)
        479551.50   3774863.98       10.60114  (14011322)                479601.50
3774863.98       10.94121  (13070106)
        479651.50   3774863.98       11.49431  (13070106)                479701.50
3774863.98       11.96145  (13070106)
        479751.50   3774863.98       12.22467  (13070106)                479801.50
3774863.98       12.31528  (13070106)
        479851.50   3774863.98       12.10916  (13070106)                479901.50
3774863.98       11.63404  (13070106)
        479951.50   3774863.98       12.24474  (12121608)                480001.50
3774863.98       13.74418  (12121608)
        480051.50   3774863.98       14.94671  (12121608)                480101.50
3774863.98       15.64579  (12121608)
        480151.50   3774863.98       18.64565  (12121607)                480201.50
3774863.98       22.90967  (12121607)
        480251.50   3774863.98       26.35462  (12121607)                480301.50
3774863.98       27.93335  (12121607)
        480351.50   3774863.98       27.07449  (12121607)                480401.50
3774863.98       25.45255  (12021321)
        480451.50   3774863.98       29.92600  (12021321)                480501.50
3774863.98       31.14676  (12021321)
        480551.50   3774863.98       34.00452  (14022508)                480601.50
3774863.98       35.55392  (14022508)
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        480651.50   3774863.98       32.28425  (14022508)               480701.50
3774863.98       26.69817  (13102821)
        480751.50   3774863.98       27.21101  (12121601)               480801.50
3774863.98       29.36959  (12121601)
        480851.50   3774863.98       31.32280  (12121601)               480901.50
3774863.98       30.50868  (12121601)
        480951.50   3774863.98       36.18327  (12031723)               481001.50
3774863.98       35.04586  (12041201)
        481051.50   3774863.98       36.02913  (12080105)               481101.50
3774863.98       36.26834  (12071219)
        481151.50   3774863.98       35.44484  (12071219)               481201.50
3774863.98       32.23833  (12111417)
        481251.50   3774863.98       30.94223  (14040821)               481301.50
3774863.98       30.29382  (12071222)
        481351.50   3774863.98       30.29334  (12071222)               481401.50
3774863.98       29.08677  (12071222)
        481451.50   3774863.98       28.15091  (13090224)               481501.50
3774863.98       27.73141  (13090224)
        479301.50   3774913.98        8.57856  (14011322)               479351.50
3774913.98        8.86223  (14011322)
        479401.50   3774913.98        9.05974  (14011322)               479451.50
3774913.98        9.24036  (14011322)
        479501.50   3774913.98        9.52326  (13070106)               479551.50
3774913.98       10.00344  (13070106)
        479601.50   3774913.98       10.36592  (13070106)               479651.50
3774913.98       10.60844  (13070106)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:46:25

                                   PAGE 112
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                   INCLUDING SOURCE(S):     L0001976    , L0001977
, L0001978    , L0001979    , L0001980    ,
                  L0001981    , L0001982    , L0001983    , L0001984    , L0001985
, L0001986    , L0001987    , L0001988    ,
                  L0001989    , L0001990    , L0001991    ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        479951.50   3774963.98       11.59757  (12121608)                480001.50
3774963.98       12.09440  (12121608)
        480051.50   3774963.98       13.41780  (13021806)                480101.50
3774963.98       15.93627  (12121607)
        480151.50   3774963.98       18.80474  (12121607)                480201.50
3774963.98       20.92058  (12121607)
        480251.50   3774963.98       21.89772  (12121607)                480301.50
3774963.98       21.23200  (12121607)
        480351.50   3774963.98       19.01833  (12121607)                480401.50
3774963.98       21.87707  (12021321)
        480451.50   3774963.98       24.19217  (12021321)                480501.50
3774963.98       24.21703  (12021321)
        480551.50   3774963.98       26.74743  (14022508)                480601.50
3774963.98       28.06652  (14022508)
        480651.50   3774963.98       26.25461  (14022508)                480701.50
3774963.98       22.39032  (14022508)
        480751.50   3774963.98       25.16347  (13102821)                480801.50
3774963.98       23.15056  (13102821)
        480851.50   3774963.98       26.76468  (12121601)                480901.50
3774963.98       33.68233  (12121601)
        480951.50   3774963.98       32.80415  (12041203)                481001.50
3774963.98       31.30721  (12041203)
        481051.50   3774963.98       30.80279  (12081701)                481101.50
3774963.98       31.90678  (12081701)
        481151.50   3774963.98       31.35769  (12081701)                481201.50
3774963.98       30.30331  (12071219)
        481251.50   3774963.98       30.11464  (12071219)                481301.50
3774963.98       28.53419  (14040821)
        481351.50   3774963.98       28.77174  (14040821)                481401.50
3774963.98       28.24964  (12071323)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        17:46:25

                                    PAGE 113
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                    INCLUDING SOURCE(S):     L0001976    , L0001977
, L0001978    , L0001979    , L0001980    ,
                  L0001981    , L0001982    , L0001983    , L0001984    , L0001985
, L0001986    , L0001987    , L0001988    ,
                  L0001989    , L0001990    , L0001991    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481451.50	3774963.98	27.57552	(12071323)	480801.50	3775013.98	24.82923	(13102821)
480851.50	3775013.98	31.53340	(13102821)	480901.50	3775013.98	31.38333	(12011117)
480951.50	3775013.98	31.00983	(12121601)	481001.50	3775013.98	30.73036	(12041203)
481051.50	3775013.98	28.46153	(12041203)	481101.50	3775013.98	29.60276	(12081701)
481151.50	3775013.98	30.29635	(12081701)	481201.50	3775013.98	29.65679	(12081701)
481251.50	3775013.98	28.20954	(12071219)	481301.50	3775013.98	28.57223	(12091001)
481351.50	3775013.98	27.99326	(12083024)	481401.50	3775013.98	27.71757	(14040821)
481451.50	3775013.98	27.33935	(12071323)	480801.50	3775063.98	26.28861	(13102821)
480851.50	3775063.98	29.65667	(13102821)	480901.50	3775063.98	30.54180	(12011117)
480951.50	3775063.98	29.79328	(13070304)	481001.50	3775063.98	29.75792	(12041203)
481051.50	3775063.98	28.89960	(12041203)	481101.50	3775063.98	27.25229	(12121724)
481151.50	3775063.98	28.23623	(12081701)	481201.50	3775063.98	29.13901	(12081701)
481251.50	3775063.98	28.57770	(12081701)	481301.50	3775063.98	27.43889	(12091001)
481351.50	3775063.98	28.43544	(12091001)	481401.50	3775063.98	27.95622	(12083024)
481451.50	3775063.98	26.54289	(12111523)	480801.50	3775113.98	24.43560	(12121508)
480851.50	3775113.98	27.31123	(13102821)	480901.50	3775113.98	29.35195	(15090206)
480951.50	3775113.98	28.95426	(12011117)	481001.50	3775113.98	28.46240	(13070304)
481051.50	3775113.98	28.49286	(12041203)	481101.50	3775113.98	27.58070	(12121724)
481151.50	3775113.98	26.69398	(12121724)	481201.50	3775113.98	27.74577	(12081701)
481251.50	3775113.98	28.77514	(13020223)	481301.50	3775113.98	27.88236	(13020223)
481351.50	3775113.98	27.12935	(13070402)	481401.50	3775113.98	27.74998	(12091001)
481451.50	3775113.98	26.82604	(12083024)	480801.50	3775163.98	23.07171	(12121508)
480851.50	3775163.98	24.64044	(13102821)	480901.50	3775163.98	27.77268	(15090206)

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        480951.50   3775163.98       28.06779  (12011117)               481001.50
3775163.98       27.96357  (13070304)
        481051.50   3775163.98       27.22437  (12041203)               481101.50
3775163.98       27.04610  (12041203)
        481151.50   3775163.98       27.72006  (12121724)               481201.50
3775163.98       26.37937  (13030404)
        481251.50   3775163.98       27.57905  (13030404)               481301.50
3775163.98       28.14708  (13020223)
        481351.50   3775163.98       27.16647  (13041822)               481401.50
3775163.98       26.63202  (13070402)
        481451.50   3775163.98       26.72170  (12091001)               480801.50
3775213.98       22.77819  (12051104)
        480851.50   3775213.98       24.61082  (12121508)               480901.50
3775213.98       25.96205  (15090206)
        480951.50   3775213.98       27.24369  (15090206)               481001.50
3775213.98       26.78506  (13070304)
        481051.50   3775213.98       26.77132  (13070304)               481101.50
3775213.98       26.37741  (12041203)
        481151.50   3775213.98       27.03806  (12121724)               481201.50
3775213.98       26.93469  (12121724)
        481251.50   3775213.98       26.93658  (12120619)               481301.50
3775213.98       27.04187  (13030404)
        481351.50   3775213.98       27.06070  (13020223)               481401.50
3775213.98       26.74642  (12061305)
        481451.50   3775213.98       26.33961  (13070402)               480801.50
3775263.98       22.63880  (12051104)
        480851.50   3775263.98       23.95319  (13070104)               480901.50
3775263.98       24.77381  (14061903)
        480951.50   3775263.98       26.17656  (15090206)               481001.50
3775263.98       25.86251  (12011117)
        481051.50   3775263.98       26.58433  (13070304)               481101.50
3775263.98       25.69914  (13070304)
        481151.50   3775263.98       26.50525  (13090906)               481201.50
3775263.98       27.08528  (12121724)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                   PAGE 114
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                   INCLUDING SOURCE(S):     L0001976    , L0001977
, L0001978    , L0001979    , L0001980    ,
                  L0001981    , L0001982    , L0001983    , L0001984    , L0001985
, L0001986    , L0001987    , L0001988    ,
                  L0001989    , L0001990    , L0001991    ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481251.50	3775263.98	26.18689	(12121724)	481301.50	3775263.98	26.57157	(12120619)
481351.50	3775263.98	27.02469	(13072205)	481401.50	3775263.98	26.39352	(12120617)
481451.50	3775263.98	25.92223	(12061305)	480801.50	3775313.98	21.71744	(13020301)
480851.50	3775313.98	23.22652	(12051104)	480901.50	3775313.98	23.94109	(14061903)
480951.50	3775313.98	25.35685	(12091722)	481001.50	3775313.98	26.13050	(12091722)
481051.50	3775313.98	25.64010	(13070304)	481101.50	3775313.98	25.89007	(13070304)
481151.50	3775313.98	26.52491	(13090906)	481201.50	3775313.98	26.37537	(13090906)
481251.50	3775313.98	26.56233	(12121724)	481301.50	3775313.98	25.68833	(13072906)
481351.50	3775313.98	26.85794	(13072205)	481401.50	3775313.98	26.62308	(13072205)
480801.50	3775363.98	21.95487	(13020301)	480851.50	3775363.98	23.13073	(12051104)
480901.50	3775363.98	23.95663	(13070104)	480951.50	3775363.98	25.12208	(14061903)
481001.50	3775363.98	25.81807	(12091722)	481051.50	3775363.98	24.78829	(12091722)
481101.50	3775363.98	25.44831	(13070304)	481151.50	3775363.98	25.37395	(12122323)
481201.50	3775363.98	26.26320	(13090906)	481251.50	3775363.98	25.60769	(12121724)
481301.50	3775363.98	25.73171	(12121724)	481351.50	3775363.98	25.82594	(13072906)
481401.50	3775363.98	26.43494	(13072205)	480801.50	3775413.98	21.83838	(13020301)
480851.50	3775413.98	22.44768	(12051104)	480901.50	3775413.98	23.92939	(13070104)
480951.50	3775413.98	24.43284	(14061903)	481001.50	3775413.98	25.73033	(12091722)
481051.50	3775413.98	25.49235	(12091722)	481101.50	3775413.98	24.26307	(13070304)
481151.50	3775413.98	25.58356	(13040703)	481201.50	3775413.98	25.78435	(13090906)
481251.50	3775413.98	26.20116	(12072103)	481301.50	3775413.98	24.88731	(12121724)

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        481351.50   3775413.98       24.67683  (13072906)               481401.50
3775413.98       25.54812  (12080203)
        480801.50   3775463.98       21.32257  (13020301)               480851.50
3775463.98       22.85940  (13020301)
        480901.50   3775463.98       23.81491  (13070104)               480951.50
3775463.98       24.00937  (13070104)
        481001.50   3775463.98       24.66175  (14061903)               481051.50
3775463.98       25.19169  (12091722)
        481101.50   3775463.98       24.70617  (12081106)               481151.50
3775463.98       24.49537  (13040703)
        481201.50   3775463.98       25.31461  (13040703)               481251.50
3775463.98       25.75860  (12072103)
        481301.50   3775463.98       25.03528  (12072103)               481351.50
3775463.98       23.99430  (12121724)
        481401.50   3775463.98       24.32232  (13072906)               480801.50
3775513.98       21.02024  (13020301)
        480851.50   3775513.98       22.85445  (13020301)               480901.50
3775513.98       23.88788  (13070104)
        480951.50   3775513.98       23.93889  (13070104)               481001.50
3775513.98       24.62119  (12051523)
        481051.50   3775513.98       24.88191  (12091722)               481101.50
3775513.98       24.66392  (12062624)
        481151.50   3775513.98       24.42432  (12081106)               481201.50
3775513.98       24.81428  (13040703)
        481251.50   3775513.98       25.08273  (12080704)               481301.50
3775513.98       24.95224  (12072103)
        481351.50   3775513.98       23.75393  (14021007)               481401.50
3775513.98       23.84228  (12120707)
        480801.50   3775563.98       21.25262  (13020301)               480851.50
3775563.98       22.74389  (13020301)
        480901.50   3775563.98       22.85339  (13070104)               480951.50
3775563.98       23.77116  (13070104)
        481001.50   3775563.98       23.95684  (13052903)               481051.50
3775563.98       24.01755  (12051523)
        481101.50   3775563.98       24.55086  (12062624)               481151.50
3775563.98       24.47945  (12081106)
        481201.50   3775563.98       24.00528  (13112001)               481251.50
3775563.98       24.63105  (12080704)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:46:25

                                   PAGE 115
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                   INCLUDING SOURCE(S):     L0001976    , L0001977
, L0001978    , L0001979    , L0001980    ,
                L0001981    , L0001982    , L0001983    , L0001984    , L0001985
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, L0001986    , L0001987    , L0001988    ,
                L0001989    , L0001990    , L0001991    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        481301.50   3775563.98       24.46039  (12072103)                481351.50
3775563.98       24.53070  (12072103)
        481401.50   3775563.98       24.03612  (14021007)                479332.46
3774240.22       10.22848  (14011308)
        479382.46   3774240.22       10.82589  (12122021)                479432.46
3774240.22       11.55218  (12122021)
        479482.46   3774240.22       12.28107  (12122021)                479532.46
3774240.22       13.17762  (12122021)
        479582.46   3774240.22       14.07904  (12122021)                479632.46
3774240.22       15.12866  (12122021)
        479682.46   3774240.22       16.32600  (12122021)                479732.46
3774240.22       17.71191  (12111302)
        479782.46   3774240.22       19.54196  (12111302)                479832.46
3774240.22       21.46126  (12111302)
        479882.46   3774240.22       23.66677  (12111302)                479932.46
3774240.22       26.21203  (12111302)
        479332.46   3774290.22       10.37473  (12110208)                479382.46
3774290.22       11.18117  (12110208)
        479432.46   3774290.22       12.07244  (12110208)                479482.46
3774290.22       13.06981  (12110208)
        479532.46   3774290.22       14.19996  (12110208)                479582.46
3774290.22       15.46430  (12110208)
        479632.46   3774290.22       16.91219  (12110208)                479682.46
3774290.22       18.54811  (12110208)
        479732.46   3774290.22       20.42623  (12110208)                479782.46
3774290.22       22.61230  (12110208)
        479832.46   3774290.22       25.13493  (12110208)                479882.46
3774290.22       28.08339  (12110208)
        479932.46   3774290.22       31.58067  (12110208)                479332.46
3774340.22       10.32964  (12122006)
        479382.46   3774340.22       10.99807  (12122006)                479432.46
3774340.22       11.65736  (12122006)
        479482.46   3774340.22       12.42680  (12122006)                479532.46
3774340.22       13.30330  (12122006)
        479582.46   3774340.22       14.47254  (12110208)                479632.46
3774340.22       15.93312  (12110208)
        479682.46   3774340.22       17.60946  (12110208)                479732.46
3774340.22       19.58005  (12110208)
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        479782.46   3774340.22       21.88083  (12110208)                479832.46
3774340.22       24.62025  (12110208)
        479882.46   3774340.22       27.93129  (12110208)                479932.46
3774340.22       31.96012  (12110208)
        479332.46   3774390.22       10.48023  (12030223)                479382.46
3774390.22       11.12467  (12030223)
        479432.46   3774390.22       11.79176  (12030223)                479482.46
3774390.22       12.61860  (12030223)
        479532.46   3774390.22       13.44942  (12030223)                479582.46
3774390.22       14.45828  (12030223)
        479632.46   3774390.22       15.54134  (12030223)                479682.46
3774390.22       16.86709  (12030223)
        479732.46   3774390.22       18.24683  (12030223)                479782.46
3774390.22       19.82934  (12030223)
        479832.46   3774390.22       21.76014  (12030223)                479882.46
3774390.22       24.02600  (12030223)
        479932.46   3774390.22       26.70213  (12030223)

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:46:25

                                   PAGE 116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                   INCLUDING SOURCE(S):     L0001992    , L0001993
, L0001994    , L0001995    , L0001996    ,
                  L0001997    , L0001998    , L0001999    , L0002000    , L0002001
, L0002002    , L0002003    , L0002004    ,
                  L0002005    , L0002006    , L0002007    ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        480415.97   3774200.25      182.24528  (12021516)                480386.35
3774201.62      138.48922  (12021516)
        480364.52   3774200.25      106.27301  (12021516)                480441.34
3774196.20      202.05646  (12021516)
        480332.65   3774203.34      111.58304  (16123116)                480281.98
3774208.10      102.35238  (16123116)
        480259.39   3774210.95       94.06305  (16123116)                480179.23
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3774215.23       60.66319  (16123116)
        479777.13   3774155.68       18.77804  (12012824)                479903.88
3774153.05       23.41963  (12012822)
        479888.73   3774072.72       24.12679  (16123116)                480286.74
3774147.78       66.33630  (14021308)
        480415.64   3774088.13       89.22555  (16121116)                480408.03
3774009.17       63.03283  (16121116)
        480445.38   3774004.65       74.64584  (13112916)                480447.28
3774028.67       81.22660  (13112916)
        480276.83   3774266.75       91.50357  (16123116)                480151.33
3774266.75       48.60362  (12111302)
        480135.30   3774266.75       46.51177  (12110208)                479301.50
3774413.98       10.03951  (12030223)
        479351.50   3774413.98       10.65562  (12030223)                479401.50
3774413.98       11.26120  (12030223)
        479451.50   3774413.98       11.95927  (12030223)                479501.50
3774413.98       12.75270  (12030223)
        479551.50   3774413.98       13.57725  (12030223)                479601.50
3774413.98       14.60512  (12030223)
        479651.50   3774413.98       15.65261  (12030223)                479701.50
3774413.98       16.95280  (12030223)
        479751.50   3774413.98       18.32156  (14022723)                479801.50
3774413.98       20.09773  (14022723)
        479851.50   3774413.98       22.33145  (14022723)                479901.50
3774413.98       24.79257  (14022723)
        479951.50   3774413.98       27.91230  (14022723)                480001.50
3774413.98       31.41713  (14022723)
        480051.50   3774413.98       35.85858  (14022723)                480101.50
3774413.98       41.31361  (14022723)
        480151.50   3774413.98       49.41689  (15022217)                480201.50
3774413.98       60.60767  (15022217)
        480251.50   3774413.98       78.27959  (12012316)                480301.50
3774413.98      103.53171  (12012316)
        480351.50   3774413.98      135.09347  (12012316)                480401.50
3774413.98      180.40001  (14120316)
        480451.50   3774413.98      277.51537  (14120316)                480501.50
3774413.98      343.78848  (14120316)
        480551.50   3774413.98      352.01780  (13042407)                480601.50
3774413.98      456.35057  (12022716)
        480651.50   3774413.98      437.62654  (12022716)                480701.50
3774413.98      228.72107  (12022716)
        480751.50   3774413.98      179.04882  (12031716)                480801.50
3774413.98      132.26925  (12031716)
        480851.50   3774413.98       88.62273  (12031716)                480901.50
3774413.98       67.60087  (12081222)
        480951.50   3774413.98       56.94267  (12081222)                481001.50
3774413.98       48.94630  (14102317)
        481051.50   3774413.98       44.07044  (14102317)                481101.50
3774413.98       39.53233  (14102317)
        481151.50   3774413.98       40.56125  (14102317)                481201.50
3774413.98       41.73601  (12090821)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 ,
L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 ,
L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481251.50	3774413.98	38.73571	(12090821)	481301.50	3774413.98	36.00264	(12082720)
481351.50	3774413.98	34.10695	(12082720)	481401.50	3774413.98	31.83958	(12082720)
481451.50	3774413.98	30.49323	(12081624)	479301.50	3774463.98	9.80213	(14022723)
479351.50	3774463.98	10.45891	(14022723)	479401.50	3774463.98	11.11532	(14022723)
479451.50	3774463.98	11.90810	(14022723)	479501.50	3774463.98	12.71524	(14022723)
479551.50	3774463.98	13.66456	(14022723)	479601.50	3774463.98	14.69072	(14022723)
479651.50	3774463.98	15.80599	(14022723)	479701.50	3774463.98	17.16551	(14022723)
479751.50	3774463.98	18.57273	(14022723)	479801.50	3774463.98	20.30248	(14022723)
479851.50	3774463.98	22.12396	(14022723)	479901.50	3774463.98	24.25236	(14022723)
479951.50	3774463.98	27.11014	(12040703)	480001.50	3774463.98	30.65291	(12040703)
480051.50	3774463.98	35.31965	(14011323)	480101.50	3774463.98	40.52876	(14011323)
480151.50	3774463.98	46.99229	(14011323)	480201.50	3774463.98	54.14146	(14011323)
480251.50	3774463.98	64.52766	(14011322)	480301.50			

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3774463.98       78.18522  (14011322)
        480351.50   3774463.98      102.80444  (14120316)                480401.50
3774463.98      131.64046  (14120316)
        480451.50   3774463.98      148.57524  (14120316)                480501.50
3774463.98      172.35119  (12121607)
        480551.50   3774463.98      193.24091  (13042407)                480601.50
3774463.98      193.54489  (12022716)
        480651.50   3774463.98      255.22368  (12022716)                480701.50
3774463.98      218.13470  (12022716)
        480751.50   3774463.98      123.88718  (12022716)                480801.50
3774463.98       97.52329  (12031716)
        480851.50   3774463.98       87.39442  (12031716)                480901.50
3774463.98       73.29114  (12031716)
        480951.50   3774463.98       57.76094  (12031716)                481001.50
3774463.98       45.10550  (15073021)
        481051.50   3774463.98       41.27828  (12081120)                481101.50
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        481151.50   3774463.98       38.15333  (12060722)                481201.50
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        481251.50   3774463.98       37.94513  (12100407)                481301.50
3774463.98       35.36660  (12100407)
        481351.50   3774463.98       33.48691  (13060124)                481401.50
3774463.98       31.70971  (12081521)
        481451.50   3774463.98       30.34564  (12081521)                481501.50
3774463.98       29.09038  (12081521)
        479301.50   3774513.98        9.99576  (14022723)                479351.50
3774513.98       10.58697  (14022723)
        479401.50   3774513.98       11.18783  (14022723)                479451.50
3774513.98       11.91258  (14022723)
        479501.50   3774513.98       12.62444  (14022723)                479551.50
3774513.98       13.45968  (14022723)
        479601.50   3774513.98       14.33006  (14022723)                479651.50
3774513.98       15.35161  (14022723)
        479701.50   3774513.98       16.61502  (12040703)                479751.50
3774513.98       18.14795  (12040703)
        479801.50   3774513.98       20.01790  (12040703)                479851.50
3774513.98       22.02667  (14011323)
        479901.50   3774513.98       24.50552  (14011323)                479951.50
3774513.98       27.04968  (14011323)
        480001.50   3774513.98       30.02280  (14011323)                480051.50
3774513.98       33.09173  (14011323)
        480101.50   3774513.98       37.24228  (14011322)                480151.50
3774513.98       43.09854  (14011322)
        480201.50   3774513.98       48.75680  (14011322)                480251.50
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        480301.50   3774513.98       65.08286  (14120316)                480351.50
3774513.98       75.79642  (14120316)
        480401.50   3774513.98       79.95208  (14120316)                480451.50
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        480901.50   3774513.98       55.38905  (12082819)               480951.50
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        481201.50   3774513.98       40.19687  (12081120)               481251.50
3774513.98       38.03495  (12082921)
        481301.50   3774513.98       36.14955  (12082921)               481351.50
3774513.98       33.48717  (12071820)
        481401.50   3774513.98       32.19267  (12071820)               481451.50
3774513.98       29.78362  (12092122)
        481501.50   3774513.98       28.95938  (12092122)               481551.50
3774513.98       26.88553  (12092122)
        479301.50   3774563.98        9.75918  (14022723)               479351.50
3774563.98       10.26074  (14022723)
        479401.50   3774563.98       10.76747  (14022723)               479451.50
3774563.98       11.54552  (12040703)
        479501.50   3774563.98       12.37544  (12040703)               479551.50
3774563.98       13.34161  (12040703)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                   PAGE 118
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                   INCLUDING SOURCE(S):     L0001992    , L0001993
, L0001994    , L0001995    , L0001996    ,
                 L0001997    , L0001998    , L0001999    , L0002000    , L0002001
, L0002002    , L0002003    , L0002004    ,
                 L0002005    , L0002006    , L0002007    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- -
479601.50 3774563.98 14.35136 (12040703) 479651.50
3774563.98 15.58040 (14011323)
479701.50 3774563.98 16.82247 (14011323) 479751.50
3774563.98 18.21035 (14011323)
479801.50 3774563.98 19.72985 (14011323) 479851.50
3774563.98 21.23563 (14011323)
479901.50 3774563.98 22.96893 (14011323) 479951.50
3774563.98 25.02862 (14011322)
480001.50 3774563.98 28.15117 (14011322) 480051.50
3774563.98 31.26262 (14011322)
480101.50 3774563.98 34.45247 (14011322) 480151.50
3774563.98 36.85391 (14011322)
480201.50 3774563.98 40.30922 (13070106) 480251.50
3774563.98 44.09120 (14120316)
480301.50 3774563.98 48.38881 (14120316) 480351.50
3774563.98 50.70061 (12121607)
480401.50 3774563.98 73.00209 (12121607) 480451.50
3774563.98 85.30811 (12121607)
480501.50 3774563.98 86.69536 (12021321) 480551.50
3774563.98 99.59546 (14022508)
480601.50 3774563.98 100.29938 (14022508) 480651.50
3774563.98 87.71459 (12121601)
480701.50 3774563.98 106.38530 (12022716) 480751.50
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3774563.98 61.83639 (12092019)
480901.50 3774563.98 52.97595 (12092019) 480951.50
3774563.98 43.45349 (12092019)
481001.50 3774563.98 40.90314 (12060724) 481051.50
3774563.98 41.18799 (12082819)
481101.50 3774563.98 45.52107 (12082819) 481151.50
3774563.98 42.81764 (12082819)
481201.50 3774563.98 38.67279 (12082819) 481251.50
3774563.98 37.37041 (14061006)
481301.50 3774563.98 35.95233 (14061006) 481351.50
3774563.98 33.13176 (14061006)
481401.50 3774563.98 31.73898 (12082921) 481451.50
3774563.98 30.63653 (12082921)
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3774563.98 27.45697 (12071820)
479301.50 3774613.98 9.74899 (12040703) 479351.50
3774613.98 10.33803 (12040703)
479401.50 3774613.98 11.01025 (12040703) 479451.50
3774613.98 11.73458 (14011323)
479501.50 3774613.98 12.49995 (14011323) 479551.50
3774613.98 13.38716 (14011323)
479601.50 3774613.98 14.23962 (14011323) 479651.50
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479701.50 3774613.98 16.13896 (14011323) 479751.50
3774613.98 17.16877 (14011323)

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        479801.50   3774613.98       18.33060  (14011322)                479851.50
3774613.98       20.23160  (14011322)
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3774613.98       24.01202  (14011322)
        480001.50   3774613.98       25.87382  (14011322)                480051.50
3774613.98       27.21721  (14011322)
        480101.50   3774613.98       29.49590  (13070106)                480151.50
3774613.98       31.26264  (13070106)
        480201.50   3774613.98       31.70220  (13070106)                480251.50
3774613.98       33.01577  (14120316)
        480301.50   3774613.98       37.63964  (12121608)                480351.50
3774613.98       51.08368  (12121607)
        480401.50   3774613.98       63.21931  (12121607)                480451.50
3774613.98       65.16211  (12121607)
        480501.50   3774613.98       69.76320  (12021321)                480551.50
3774613.98       77.87192  (14022508)
        480601.50   3774613.98       79.41419  (14022508)                480651.50
3774613.98       62.42826  (12121601)
        480701.50   3774613.98       70.17441  (12121601)                480751.50
3774613.98       81.97449  (12022716)
        480801.50   3774613.98       79.07986  (12022716)                480851.50
3774613.98       64.65133  (12022716)
        480901.50   3774613.98       47.74867  (12092019)                480951.50
3774613.98       45.01875  (12092019)
        481001.50   3774613.98       40.04817  (12092019)                481051.50
3774613.98       40.13689  (12052222)
        481101.50   3774613.98       43.88722  (12052222)                481151.50
3774613.98       41.27057  (13081722)
        481201.50   3774613.98       38.46419  (13081722)                481251.50
3774613.98       35.63262  (12082819)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:46:25

                                   PAGE 119
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                   INCLUDING SOURCE(S):     L0001992    , L0001993
, L0001994    , L0001995    , L0001996    ,
                  L0001997    , L0001998    , L0001999    , L0002000    , L0002001
, L0002002    , L0002003    , L0002004    ,
                  L0002005    , L0002006    , L0002007    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3774613.98	33.40794	(12082819)	481351.50	3774613.98	32.26049	(12071424)
481401.50	3774613.98	31.15107	(14061006)	481451.50	3774613.98	29.77444	(14061006)
481501.50	3774613.98	28.66053	(13070105)	481551.50	3774613.98	27.12775	(13070105)
479301.50	3774663.98	9.82884	(14011323)	479351.50	3774663.98	10.36511	(14011323)
479401.50	3774663.98	10.97694	(14011323)	479451.50	3774663.98	11.55959	(14011323)
479501.50	3774663.98	12.19225	(14011323)	479551.50	3774663.98	12.81555	(14011323)
479601.50	3774663.98	13.43381	(14011323)	479651.50	3774663.98	14.18670	(14011322)
479701.50	3774663.98	15.39986	(14011322)	479751.50	3774663.98	16.74452	(14011322)
479801.50	3774663.98	17.99756	(14011322)	479851.50	3774663.98	19.28944	(14011322)
479901.50	3774663.98	20.36227	(14011322)	479951.50	3774663.98	21.17902	(14011322)
480001.50	3774663.98	22.70169	(13070106)	480051.50	3774663.98	24.06354	(13070106)
480101.50	3774663.98	24.72656	(13070106)	480151.50	3774663.98	24.29105	(13070106)
480201.50	3774663.98	26.16714	(12121608)	480251.50	3774663.98	29.53308	(12121608)
480301.50	3774663.98	37.46954	(12121607)	480351.50	3774663.98	47.57119	(12121607)
480401.50	3774663.98	52.81466	(12121607)	480451.50	3774663.98	49.33978	(12121607)
480501.50	3774663.98	57.35945	(12021321)	480551.50	3774663.98	63.01368	(14022508)
480601.50	3774663.98	64.76440	(14022508)	480651.50	3774663.98	52.13387	(14022508)
480701.50	3774663.98	54.89391	(12121601)	480751.50	3774663.98	56.10037	(12022716)
480801.50	3774663.98	63.69515	(12022716)	480851.50	3774663.98	60.31940	(12022716)
480901.50	3774663.98	49.15146	(12022716)	480951.50	3774663.98	40.76971	(12092019)
481001.50	3774663.98	41.84969	(12092019)	481051.50	3774663.98	43.78216	(12092019)
481101.50	3774663.98	40.21763	(12120107)	481151.50	3774663.98	39.40920	(12052222)
481201.50	3774663.98	37.36315	(12052222)	481251.50	3774663.98	35.86870	(13081722)

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        481301.50   3774663.98       33.27264  (13081722)               481351.50
3774663.98       31.29907  (12081122)
        481401.50   3774663.98       30.55293  (12081122)               481451.50
3774663.98       28.91087  (13071323)
        481501.50   3774663.98       28.15776  (13071823)               481551.50
3774663.98       27.03918  (13071823)
        479301.50   3774713.98        9.62947  (14011323)               479351.50
3774713.98       10.05505  (14011323)
        479401.50   3774713.98       10.50348  (14011323)               479451.50
3774713.98       10.89907  (14011323)
        479501.50   3774713.98       11.40907  (14011322)               479551.50
3774713.98       12.27296  (14011322)
        479601.50   3774713.98       13.22807  (14011322)               479651.50
3774713.98       14.11996  (14011322)
        479701.50   3774713.98       15.04543  (14011322)               479751.50
3774713.98       15.87676  (14011322)
        479801.50   3774713.98       16.59932  (14011322)               479851.50
3774713.98       17.18799  (14011322)
        479901.50   3774713.98       18.17990  (13070106)               479951.50
3774713.98       19.25924  (13070106)
        480001.50   3774713.98       19.83918  (13070106)               480051.50
3774713.98       19.86466  (13070106)
        480101.50   3774713.98       19.13807  (13070106)               480151.50
3774713.98       21.61451  (12121608)
        480201.50   3774713.98       24.04812  (12121608)               480251.50
3774713.98       28.53670  (12121607)
        480301.50   3774713.98       36.61653  (12121607)               480351.50
3774713.98       42.41291  (12121607)
        480401.50   3774713.98       43.16661  (12121607)               480451.50
3774713.98       41.94585  (12021321)
        480501.50   3774713.98       47.97729  (12021321)               480551.50
3774713.98       52.33580  (14022508)
        480601.50   3774713.98       54.10981  (14022508)               480651.50
3774713.98       45.45796  (14022508)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                   PAGE 120
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                   INCLUDING SOURCE(S):     L0001992    , L0001993
, L0001994    , L0001995    , L0001996    ,
                  L0001997    , L0001998    , L0001999    , L0002000    , L0002001
, L0002002    , L0002003    , L0002004    ,
                  L0002005    , L0002006    , L0002007    ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480701.50	3774713.98	42.74995	(12121601)	480751.50	3774713.98	46.28762	(12121601)
480801.50	3774713.98	47.29063	(12022716)	480851.50	3774713.98	50.86942	(12022716)
480901.50	3774713.98	47.40214	(12022716)	480951.50	3774713.98	40.90591	(12071219)
481001.50	3774713.98	47.20862	(12071219)	481051.50	3774713.98	42.85678	(12092019)
481101.50	3774713.98	39.27391	(12092019)	481151.50	3774713.98	37.22628	(12120107)
481201.50	3774713.98	35.05195	(12092123)	481251.50	3774713.98	34.31487	(12092123)
481301.50	3774713.98	32.37832	(12080223)	481351.50	3774713.98	31.28065	(12080223)
481401.50	3774713.98	30.11624	(12081223)	481451.50	3774713.98	28.57627	(12081122)
481501.50	3774713.98	28.14150	(12081122)	479301.50	3774763.98	9.09672	(14011323)
479351.50	3774763.98	9.43825	(14011322)	479401.50	3774763.98	10.08195	(14011322)
479451.50	3774763.98	10.75834	(14011322)	479501.50	3774763.98	11.45650	(14011322)
479551.50	3774763.98	12.10739	(14011322)	479601.50	3774763.98	12.79241	(14011322)
479651.50	3774763.98	13.35602	(14011322)	479701.50	3774763.98	13.88162	(14011322)
479751.50	3774763.98	14.24626	(14011322)	479801.50	3774763.98	15.04733	(13070106)
479851.50	3774763.98	15.83020	(13070106)	479901.50	3774763.98	16.34009	(13070106)
479951.50	3774763.98	16.53939	(13070106)	480001.50	3774763.98	16.20562	(13070106)
480051.50	3774763.98	15.96222	(12121608)	480101.50	3774763.98	18.23620	(12121608)
480151.50	3774763.98	20.07734	(12121608)	480201.50	3774763.98	22.48963	(13021806)
480251.50	3774763.98	28.81906	(12121607)	480301.50	3774763.98	34.18350	(12121607)
480351.50	3774763.98	36.76638	(12121607)	480401.50	3774763.98	34.91023	(12121607)
480451.50	3774763.98	37.15234	(12021321)	480501.50	3774763.98	40.75250	(12021321)

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        480551.50   3774763.98       44.35142  (14022508)                480601.50
3774763.98       46.09205  (14022508)
        480651.50   3774763.98       39.94301  (14022508)                480701.50
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3774763.98       41.55606  (12022716)
        480951.50   3774763.98       38.38665  (12041201)                481001.50
3774763.98       43.07567  (12071219)
        481051.50   3774763.98       42.41890  (12071219)                481101.50
3774763.98       38.01612  (12111417)
        481151.50   3774763.98       35.68401  (12092019)                481201.50
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        481251.50   3774763.98       32.79159  (12120107)                481301.50
3774763.98       32.01728  (12092123)
        481351.50   3774763.98       31.02133  (13090224)                481401.50
3774763.98       29.65670  (13090905)
        481451.50   3774763.98       28.63192  (13090822)                481501.50
3774763.98       27.81412  (13090822)
        479301.50   3774813.98        8.98122  (14011322)                479351.50
3774813.98        9.53457  (14011322)
        479401.50   3774813.98       10.03938  (14011322)                479451.50
3774813.98       10.56415  (14011322)
        479501.50   3774813.98       11.03304  (14011322)                479551.50
3774813.98       11.47812  (14011322)
        479601.50   3774813.98       11.82690  (14011322)                479651.50
3774813.98       12.06090  (14011322)
        479701.50   3774813.98       12.68516  (13070106)                479751.50
3774813.98       13.31085  (13070106)
        479801.50   3774813.98       13.79635  (13070106)                479851.50
3774813.98       13.98732  (13070106)
        479901.50   3774813.98       13.88461  (13070106)                479951.50
3774813.98       13.42998  (13070106)
        480001.50   3774813.98       13.89758  (12121608)                480051.50
3774813.98       15.70248  (12121608)
        480101.50   3774813.98       17.08024  (12121608)                480151.50
3774813.98       18.56230  (13021806)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:46:25

                                   PAGE 121
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                   INCLUDING SOURCE(S):     L0001992    , L0001993
, L0001994    , L0001995    , L0001996    ,
                L0001997    , L0001998    , L0001999    , L0002000    , L0002001
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, L0002002    , L0002003    , L0002004    ,
                L0002005    , L0002006    , L0002007    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        480201.50   3774813.98       23.08756  (12121607)                480251.50
3774813.98       27.86728  (12121607)
        480301.50   3774813.98       30.93917  (12121607)                480351.50
3774813.98       31.27692  (12121607)
        480401.50   3774813.98       28.16629  (12121607)                480451.50
3774813.98       33.03506  (12021321)
        480501.50   3774813.98       35.07002  (12021321)                480551.50
3774813.98       38.25325  (14022508)
        480601.50   3774813.98       39.82546  (14022508)                480651.50
3774813.98       35.43414  (14022508)
        480701.50   3774813.98       27.72379  (13102821)                480751.50
3774813.98       31.48125  (12121601)
        480801.50   3774813.98       33.47079  (12121601)                480851.50
3774813.98       33.64044  (12121601)
        480901.50   3774813.98       34.09028  (12022716)                480951.50
3774813.98       34.73118  (12041201)
        481001.50   3774813.98       39.14530  (12080105)                481051.50
3774813.98       39.37875  (12071219)
        481101.50   3774813.98       38.48247  (12071219)                481151.50
3774813.98       35.23896  (12111417)
        481201.50   3774813.98       32.61323  (12111417)                481251.50
3774813.98       31.80911  (12071222)
        481301.50   3774813.98       30.77258  (12071222)                481351.50
3774813.98       29.64740  (12071222)
        481401.50   3774813.98       29.49054  (13090224)                481451.50
3774813.98       28.69796  (13090224)
        481501.50   3774813.98       27.10344  (12081522)                479301.50
3774863.98        8.88590  (14011322)
        479351.50   3774863.98        9.29898  (14011322)                479401.50
3774863.98        9.63975  (14011322)
        479451.50   3774863.98        9.98286  (14011322)                479501.50
3774863.98       10.22311  (14011322)
        479551.50   3774863.98       10.43015  (14011322)                479601.50
3774863.98       10.89428  (13070106)
        479651.50   3774863.98       11.39884  (13070106)                479701.50
3774863.98       11.80941  (13070106)
        479751.50   3774863.98       12.01087  (13070106)                479801.50
3774863.98       12.03611  (13070106)
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        479851.50   3774863.98       11.76787  (13070106)                479901.50
3774863.98       11.23880  (13070106)
        479951.50   3774863.98       12.28450  (12121608)                480001.50
3774863.98       13.70356  (12121608)
        480051.50   3774863.98       14.80179  (12121608)                480101.50
3774863.98       15.59585  (13021806)
        480151.50   3774863.98       18.82220  (12121607)                480201.50
3774863.98       22.91495  (12121607)
        480251.50   3774863.98       26.11298  (12121607)                480301.50
3774863.98       27.42180  (12121607)
        480351.50   3774863.98       26.34595  (12121607)                480401.50
3774863.98       25.28158  (12021321)
        480451.50   3774863.98       29.50011  (12021321)                480501.50
3774863.98       30.52474  (12021321)
        480551.50   3774863.98       33.44409  (14022508)                480601.50
3774863.98       34.88067  (14022508)
        480651.50   3774863.98       31.67282  (14022508)                480701.50
3774863.98       26.08256  (13102821)
        480751.50   3774863.98       26.58912  (13102821)                480801.50
3774863.98       28.73444  (12121601)
        480851.50   3774863.98       30.85824  (12121601)                480901.50
3774863.98       30.29806  (12121601)
        480951.50   3774863.98       35.59451  (12031723)                481001.50
3774863.98       34.34769  (12041201)
        481051.50   3774863.98       35.42722  (12080105)                481101.50
3774863.98       35.63682  (12071219)
        481151.50   3774863.98       35.15904  (12071219)                481201.50
3774863.98       32.20146  (12071219)
        481251.50   3774863.98       30.80457  (14040821)                481301.50
3774863.98       29.93432  (13060705)
        481351.50   3774863.98       30.02842  (12071222)                481401.50
3774863.98       29.06028  (12071222)
        481451.50   3774863.98       27.80101  (13090224)                481501.50
3774863.98       27.57970  (13090224)
        479301.50   3774913.98        8.51416  (14011322)                479351.50
3774913.98        8.77458  (14011322)
        479401.50   3774913.98        8.94684  (14011322)                479451.50
3774913.98        9.09932  (14011322)
        479501.50   3774913.98        9.49042  (13070106)                479551.50
3774913.98        9.93407  (13070106)
        479601.50   3774913.98       10.25493  (13070106)                479651.50
3774913.98       10.45155  (13070106)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                  PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: EQUIP   ***
                                INCLUDING SOURCE(S):   L0001992   , L0001993
, L0001994   , L0001995   , L0001996   ,
                L0001997   , L0001998   , L0001999   , L0002000   , L0002001
, L0002002   , L0002003   , L0002004   ,
                L0002005   , L0002006   , L0002007   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        479701.50   3774913.98   10.52332 (13070106)   479751.50
3774913.98   10.38023 (13070106)
        479801.50   3774913.98   10.06744 (13070106)   479851.50
3774913.98   9.69535 (12121608)
        479901.50   3774913.98   10.94525 (12121608)   479951.50
3774913.98   12.08707 (12121608)
        480001.50   3774913.98   12.98580 (12121608)   480051.50
3774913.98   13.47675 (12121608)
        480101.50   3774913.98   15.58161 (12121607)   480151.50
3774913.98   19.08758 (12121607)
        480201.50   3774913.98   22.04264 (12121607)   480251.50
3774913.98   23.91819 (12121607)
        480301.50   3774913.98   23.96452 (12121607)   480351.50
3774913.98   22.08025 (12121607)
        480401.50   3774913.98   23.43534 (12021321)   480451.50
3774913.98   26.46720 (12021321)
        480501.50   3774913.98   26.82274 (12021321)   480551.50
3774913.98   29.57569 (14022508)
        480601.50   3774913.98   30.89647 (14022508)   480651.50
3774913.98   28.49751 (14022508)
        480701.50   3774913.98   23.58116 (14022508)   480751.50
3774913.98   24.84321 (13102821)
        480801.50   3774913.98   26.51598 (12121601)   480851.50
3774913.98   27.70309 (12121601)
        480901.50   3774913.98   30.55809 (12121601)   480951.50
3774913.98   32.78203 (12041203)
        481001.50   3774913.98   32.01872 (12031723)   481051.50
3774913.98   32.64457 (12081701)
        481101.50   3774913.98   33.14029 (12081701)   481151.50
3774913.98   32.18841 (12071219)
        481201.50   3774913.98   32.24415 (12071219)   481251.50
3774913.98   30.06104 (12071219)
        481301.50   3774913.98   29.16314 (14040821)   481351.50
3774913.98   28.33107 (12071323)

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        481401.50   3774913.98       28.30493  (12071222)                481451.50
3774913.98       28.23119  (12071222)
        481501.50   3774913.98       26.94988  (12071222)                479301.50
3774963.98        7.91624  (14011322)
        479351.50   3774963.98        8.02858  (14011322)                479401.50
3774963.98        8.36416  (13070106)
        479451.50   3774963.98        8.73698  (13070106)                479501.50
3774963.98        9.01414  (13070106)
        479551.50   3774963.98        9.22274  (13070106)                479601.50
3774963.98        9.29033  (13070106)
        479651.50   3774963.98        9.22322  (13070106)                479701.50
3774963.98        9.03014  (13070106)
        479751.50   3774963.98        8.66030  (13070106)                479801.50
3774963.98        8.81486  (12121608)
        479851.50   3774963.98        9.84142  (12121608)                479901.50
3774963.98       10.77213  (12121608)
        479951.50   3774963.98       11.50495  (12121608)                480001.50
3774963.98       11.92991  (12121608)
        480051.50   3774963.98       13.44812  (13021806)                480101.50
3774963.98       16.03269  (12121607)
        480151.50   3774963.98       18.78051  (12121607)                480201.50
3774963.98       20.73978  (12121607)
        480251.50   3774963.98       21.54985  (12121607)                480301.50
3774963.98       20.75016  (12121607)
        480351.50   3774963.98       18.46935  (12121607)                480401.50
3774963.98       21.69299  (12021321)
        480451.50   3774963.98       23.85741  (12021321)                480501.50
3774963.98       23.78174  (12021321)
        480551.50   3774963.98       26.37621  (14022508)                480601.50
3774963.98       27.61888  (14022508)
        480651.50   3774963.98       25.82664  (14022508)                480701.50
3774963.98       22.06461  (14022508)
        480751.50   3774963.98       25.32527  (13102821)                480801.50
3774963.98       22.78126  (13102821)
        480851.50   3774963.98       26.29233  (12121601)                480901.50
3774963.98       33.23227  (12121601)
        480951.50   3774963.98       32.41969  (12041203)                481001.50
3774963.98       31.17335  (12041203)
        481051.50   3774963.98       30.16061  (12081701)                481101.50
3774963.98       31.49675  (12081701)
        481151.50   3774963.98       31.21399  (12081701)                481201.50
3774963.98       29.80679  (12071219)
        481251.50   3774963.98       29.85961  (12071219)                481301.50
3774963.98       28.31535  (12071219)
        481351.50   3774963.98       28.54594  (14040821)                481401.50
3774963.98       28.00255  (12071323)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***         04/13/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:46:25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 ,
L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 ,
L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481451.50	3774963.98	27.54862	(12071323)	480801.50	3775013.98	25.08874	(13102821)
480851.50	3775013.98	31.11796	(13102821)	480901.50	3775013.98	31.09244	(12011117)
480951.50	3775013.98	30.70932	(12121601)	481001.50	3775013.98	30.47378	(12041203)
481051.50	3775013.98	28.43175	(12041203)	481101.50	3775013.98	29.04370	(12081701)
481151.50	3775013.98	29.95594	(12081701)	481201.50	3775013.98	29.55739	(12081701)
481251.50	3775013.98	27.91932	(12080105)	481301.50	3775013.98	28.33504	(12091001)
481351.50	3775013.98	27.89430	(12091001)	481401.50	3775013.98	27.45763	(14040821)
481451.50	3775013.98	27.03755	(12071323)	480801.50	3775063.98	25.83195	(13102821)
480851.50	3775063.98	29.23744	(13102821)	480901.50	3775063.98	30.20646	(12011117)
480951.50	3775063.98	29.49363	(13070304)	481001.50	3775063.98	29.40967	(12041203)
481051.50	3775063.98	28.74791	(12041203)	481101.50	3775063.98	27.12737	(12121724)
481151.50	3775063.98	27.75504	(12081701)	481201.50	3775063.98	28.85288	(12081701)
481251.50	3775063.98	28.51682	(12081701)	481301.50	3775063.98	26.98960	(12091001)
481351.50	3775063.98	28.18759	(12091001)	481401.50	3775063.98	27.81409	(12083024)
481451.50	3775063.98	26.37416	(12111523)	480801.50	3775113.98	24.15544	(12121508)

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        480851.50   3775113.98       26.90559  (13102821)                480901.50
3775113.98       29.02947  (15090206)
        480951.50   3775113.98       28.73222  (12011117)                481001.50
3775113.98       28.26782  (13070304)
        481051.50   3775113.98       28.24276  (12041203)                481101.50
3775113.98       27.33251  (12121724)
        481151.50   3775113.98       26.64050  (12121724)                481201.50
3775113.98       27.31078  (12081701)
        481251.50   3775113.98       28.53028  (13020223)                481301.50
3775113.98       27.86122  (13020223)
        481351.50   3775113.98       26.79137  (13070402)                481401.50
3775113.98       27.49731  (12091001)
        481451.50   3775113.98       26.66839  (12083024)                480801.50
3775163.98       22.80603  (12121508)
        480851.50   3775163.98       24.38780  (12121508)                480901.50
3775163.98       27.43543  (15090206)
        480951.50   3775163.98       27.80365  (12011117)                481001.50
3775163.98       27.70466  (13070304)
        481051.50   3775163.98       26.90323  (12041203)                481101.50
3775163.98       26.88529  (12041203)
        481151.50   3775163.98       27.53960  (12121724)                481201.50
3775163.98       25.99571  (13030404)
        481251.50   3775163.98       27.37083  (13030404)                481301.50
3775163.98       27.94129  (13020223)
        481351.50   3775163.98       27.07233  (13041822)                481401.50
3775163.98       26.29879  (13070402)
        481451.50   3775163.98       26.47398  (13070402)                480801.50
3775213.98       22.55060  (12051104)
        480851.50   3775213.98       24.37733  (12121508)                480901.50
3775213.98       25.62224  (15090206)
        480951.50   3775213.98       26.98817  (15090206)                481001.50
3775213.98       26.48186  (13070304)
        481051.50   3775213.98       26.60257  (13070304)                481101.50
3775213.98       26.13644  (12041203)
        481151.50   3775213.98       26.75093  (12121724)                481201.50
3775213.98       26.82514  (12121724)
        481251.50   3775213.98       26.67773  (12120619)                481301.50
3775213.98       26.88011  (13030404)
        481351.50   3775213.98       26.89391  (13020223)                481401.50
3775213.98       26.56549  (12061305)
        481451.50   3775213.98       26.00564  (13070402)                480801.50
3775263.98       22.41068  (12051104)
        480851.50   3775263.98       23.74335  (13070104)                480901.50
3775263.98       24.52799  (14061903)
        480951.50   3775263.98       25.89894  (15090206)                481001.50
3775263.98       25.65285  (12011117)
        481051.50   3775263.98       26.35606  (13070304)                481101.50
3775263.98       25.61585  (13070304)
        481151.50   3775263.98       26.34127  (13090906)                481201.50
3775263.98       26.85989  (12121724)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 , L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 , L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481251.50	3775263.98	26.14461	(12121724)	481301.50	3775263.98	26.36256	(12120619)
481351.50	3775263.98	26.90701	(13072205)	481401.50	3775263.98	26.15152	(12120617)
481451.50	3775263.98	25.76273	(12061305)	480801.50	3775313.98	21.53658	(13020301)
480851.50	3775313.98	23.03181	(12051104)	480901.50	3775313.98	23.69400	(13070104)
480951.50	3775313.98	25.09968	(12091722)	481001.50	3775313.98	25.96792	(12091722)
481051.50	3775313.98	25.36755	(13070304)	481101.50	3775313.98	25.74077	(13070304)
481151.50	3775313.98	26.27058	(13090906)	481201.50	3775313.98	26.28367	(13090906)
481251.50	3775313.98	26.40333	(12121724)	481301.50	3775313.98	25.44811	(13072906)
481351.50	3775313.98	26.58597	(13072205)	481401.50	3775313.98	26.54759	(13072205)
480801.50	3775363.98	21.77212	(13020301)	480851.50	3775363.98	22.93191	(12051104)
480901.50	3775363.98	23.78828	(13070104)	480951.50	3775363.98	24.91130	(14061903)
481001.50	3775363.98	25.62138	(12091722)	481051.50	3775363.98	24.70705	(12091722)
481101.50	3775363.98	25.24378	(13070304)	481151.50	3775363.98	25.12147	(12122323)

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        481201.50   3775363.98       26.07868  (13090906)               481251.50
3775363.98       25.55077  (13090906)
        481301.50   3775363.98       25.63789  (12121724)               481351.50
3775363.98       25.63047  (13072906)
        481401.50   3775363.98       26.20663  (13072205)               480801.50
3775413.98       21.65791  (13020301)
        480851.50   3775413.98       22.25176  (12051104)               480901.50
3775413.98       23.75063  (13070104)
        480951.50   3775413.98       24.20777  (14061903)               481001.50
3775413.98       25.50182  (12091722)
        481051.50   3775413.98       25.36852  (12091722)               481101.50
3775413.98       24.01878  (13070304)
        481151.50   3775413.98       25.38865  (13040703)               481201.50
3775413.98       25.51902  (13090906)
        481251.50   3775413.98       26.08582  (12072103)               481301.50
3775413.98       24.69312  (12121724)
        481351.50   3775413.98       24.37130  (13072906)               481401.50
3775413.98       25.38814  (13072906)
        480801.50   3775463.98       21.14862  (13020301)               480851.50
3775463.98       22.70103  (13020301)
        480901.50   3775463.98       23.62806  (13070104)               480951.50
3775463.98       23.88391  (13070104)
        481001.50   3775463.98       24.49113  (14061903)               481051.50
3775463.98       25.03200  (12091722)
        481101.50   3775463.98       24.58016  (12062624)               481151.50
3775463.98       24.24911  (13040703)
        481201.50   3775463.98       25.19039  (13040703)               481251.50
3775463.98       25.55624  (12072103)
        481301.50   3775463.98       24.98928  (12072103)               481351.50
3775463.98       23.85818  (12121724)
        481401.50   3775463.98       24.06478  (13072906)               480801.50
3775513.98       20.85097  (13020301)
        480851.50   3775513.98       22.69474  (13020301)               480901.50
3775513.98       23.69211  (13070104)
        480951.50   3775513.98       23.79930  (13070104)               481001.50
3775513.98       24.42826  (12051523)
        481051.50   3775513.98       24.69184  (12091722)               481101.50
3775513.98       24.52936  (12062624)
        481151.50   3775513.98       24.35653  (12081106)               481201.50
3775513.98       24.62661  (13040703)
        481251.50   3775513.98       24.95780  (12080704)               481301.50
3775513.98       24.81767  (12072103)
        481351.50   3775513.98       23.60874  (14021007)               481401.50
3775513.98       23.75839  (12120707)
        480801.50   3775563.98       21.08323  (13020301)               480851.50
3775563.98       22.58407  (13020301)
        480901.50   3775563.98       22.66019  (13070104)               480951.50
3775563.98       23.62044  (13070104)
        481001.50   3775563.98       23.78364  (13052903)               481051.50
3775563.98       23.88621  (12051523)
        481101.50   3775563.98       24.37842  (12062624)               481151.50
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0001992 , L0001993 , L0001994 , L0001995 , L0001996 ,
L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 , L0002003 , L0002004 ,
L0002005 , L0002006 , L0002007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3775563.98	24.24859	(12072103)	481351.50	3775563.98	24.46130	(12072103)
481401.50	3775563.98	23.94407	(14021007)	479332.46	3774240.22	10.27079	(14011308)
479382.46	3774240.22	10.85229	(14011308)	479432.46	3774240.22	11.55506	(12122021)
479482.46	3774240.22	12.29346	(12122021)	479532.46	3774240.22	13.20237	(12122021)
479582.46	3774240.22	14.11937	(12122021)	479632.46	3774240.22	15.18917	(12122021)
479682.46	3774240.22	16.41274	(12122021)	479732.46	3774240.22	17.71543	(12122021)
479782.46	3774240.22	19.47426	(12111302)	479832.46	3774240.22	21.42550	(12111302)
479882.46	3774240.22	23.67895	(12111302)	479932.46	3774240.22	26.29564	(12111302)
479332.46	3774290.22	10.35226	(12110208)	479382.46	3774290.22	11.16887	(12110208)
479432.46	3774290.22	12.07343	(12110208)	479482.46	3774290.22	13.08812	(12110208)
479532.46	3774290.22	14.24085	(12110208)	479582.46	3774290.22	15.53457	(12110208)

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        479632.46   3774290.22       17.02099  (12110208)               479682.46
3774290.22       18.70744  (12110208)
        479732.46   3774290.22       20.65236  (12110208)               479782.46
3774290.22       22.92776  (12110208)
        479832.46   3774290.22       25.57031  (12110208)               479882.46
3774290.22       28.68193  (12110208)
        479932.46   3774290.22       32.40486  (12110208)               479332.46
3774340.22       10.37517  (12122006)
        479382.46   3774340.22       11.04799  (12122006)               479432.46
3774340.22       11.71192  (12122006)
        479482.46   3774340.22       12.48688  (12122006)               479532.46
3774340.22       13.36988  (12122006)
        479582.46   3774340.22       14.29825  (12122006)               479632.46
3774340.22       15.54583  (12110208)
        479682.46   3774340.22       17.18061  (12110208)               479732.46
3774340.22       19.10255  (12110208)
        479782.46   3774340.22       21.34673  (12110208)               479832.46
3774340.22       24.01922  (12110208)
        479882.46   3774340.22       27.25018  (12110208)               479932.46
3774340.22       31.18298  (12110208)
        479332.46   3774390.22       10.48684  (12030223)               479382.46
3774390.22       11.12926  (12030223)
        479432.46   3774390.22       11.79371  (12030223)               479482.46
3774390.22       12.61712  (12030223)
        479532.46   3774390.22       13.44353  (12030223)               479582.46
3774390.22       14.44660  (12030223)
        479632.46   3774390.22       15.52215  (12030223)               479682.46
3774390.22       16.83785  (12030223)
        479732.46   3774390.22       18.20456  (12030223)               479782.46
3774390.22       19.76971  (12030223)
        479832.46   3774390.22       21.67673  (12030223)               479882.46
3774390.22       23.90991  (12030223)
        479932.46   3774390.22       26.54045  (12030223)

 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:46:25

                                   PAGE 126
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN      ***
                                   INCLUDING SOURCE(S):     STCK1       ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480415.97	3774200.25	41.28831	(16050213)	480386.35	3774201.62	28.94796	(16050213)
480364.52	3774200.25	14.07526	(16050213)	480441.34	3774196.20	48.00043	(16050213)
480332.65	3774203.34	9.79223	(16050213)	480281.98	3774208.10	4.37337	(16050213)
480259.39	3774210.95	2.84687	(16050213)	480179.23	3774215.23	1.90144	(13010713)
479777.13	3774155.68	0.84784	(13010713)	479903.88	3774153.05	1.01750	(13010713)
479888.73	3774072.72	0.69931	(13010713)	480286.74	3774147.78	6.68397	(16050213)
480415.64	3774088.13	12.32307	(16050213)	480408.03	3774009.17	8.26832	(16050213)
480445.38	3774004.65	7.67656	(13021113)	480447.28	3774028.67	8.52835	(13021113)
480276.83	3774266.75	2.74335	(13010713)	480151.33	3774266.75	2.44240	(13010713)
480135.30	3774266.75	2.36402	(13010713)	479301.50	3774413.98	0.47155	(13010713)
479351.50	3774413.98	0.50645	(13010713)	479401.50	3774413.98	0.54502	(13010713)
479451.50	3774413.98	0.58856	(13010713)	479501.50	3774413.98	0.63788	(13010713)
479551.50	3774413.98	0.69327	(13010713)	479601.50	3774413.98	0.75735	(13010713)
479651.50	3774413.98	0.82956	(13010713)	479701.50	3774413.98	0.91393	(13010713)
479751.50	3774413.98	1.00963	(13010713)	479801.50	3774413.98	1.12033	(13010713)
479851.50	3774413.98	1.25153	(13010713)	479901.50	3774413.98	1.40078	(13010713)
479951.50	3774413.98	1.57755	(13010713)	480001.50	3774413.98	1.77529	(13010713)
480051.50	3774413.98	2.00794	(13010713)	480101.50	3774413.98	2.27288	(13010713)
480151.50	3774413.98	2.56238	(13010713)	480201.50	3774413.98	2.86450	(13010713)
480251.50	3774413.98	3.05642	(13010713)	480301.50	3774413.98	3.05301	(13010713)
480351.50	3774413.98	3.70459	(12081313)	480401.50	3774413.98	6.35224	(12081313)
480451.50	3774413.98	9.66075	(12081313)	480501.50	3774413.98	22.78137	(16032813)
480551.50	3774413.98	31.29123	(12010913)	480601.50	3774413.98	29.72985	(13112513)

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        480651.50   3774413.98       27.70036  (14101313)                480701.50
3774413.98       23.20182  (13112513)
        480751.50   3774413.98       12.72831  (13032513)                480801.50
3774413.98       10.73849  (13032513)
        480851.50   3774413.98        8.73797  (13032513)                480901.50
3774413.98        7.17823  (13032513)
        480951.50   3774413.98        5.93335  (13032513)                481001.50
3774413.98        4.93182  (13032513)
        481051.50   3774413.98        4.12157  (13032513)                481101.50
3774413.98        3.46290  (13032513)
        481151.50   3774413.98        2.92450  (13032513)                481201.50
3774413.98        2.48281  (13032513)
        481251.50   3774413.98        2.11965  (13032513)                481301.50
3774413.98        1.82032  (13032513)
        481351.50   3774413.98        1.57308  (13032513)                481401.50
3774413.98        1.36870  (13032513)
        481451.50   3774413.98        1.19921  (13032513)                479301.50
3774463.98        0.45368  (13010713)
        479351.50   3774463.98        0.48621  (13010713)                479401.50
3774463.98        0.52199  (13010713)
        479451.50   3774463.98        0.56254  (13010713)                479501.50
3774463.98        0.60746  (13010713)
        479551.50   3774463.98        0.65852  (13010713)                479601.50
3774463.98        0.71593  (13010713)
        479651.50   3774463.98        0.78063  (13010713)                479701.50
3774463.98        0.85548  (13010713)
        479751.50   3774463.98        0.93919  (13010713)                479801.50
3774463.98        1.03660  (13010713)
        479851.50   3774463.98        1.14525  (13010713)                479901.50
3774463.98        1.26896  (13010713)
        479951.50   3774463.98        1.40822  (13010713)                480001.50
3774463.98        1.55709  (13010713)
        480051.50   3774463.98        1.72528  (13010713)                480101.50
3774463.98        1.88782  (13010713)
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN   ***
                                  INCLUDING SOURCE(S):   STCK1   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480151.50	3774463.98	2.04517	(13010713)	480201.50	3774463.98	2.13673	(13010713)
480251.50	3774463.98	2.07040	(13010713)	480301.50	3774463.98	2.24774	(12122413)
480351.50	3774463.98	3.74980	(12122413)	480401.50	3774463.98	4.71442	(12122413)
480451.50	3774463.98	8.44971	(15042713)	480501.50	3774463.98	29.06055	(13042913)
480551.50	3774463.98	35.43332	(13042913)	480601.50	3774463.98	35.57679	(13042913)
480651.50	3774463.98	30.80512	(13120913)	480701.50	3774463.98	15.58756	(16021513)
480751.50	3774463.98	10.29648	(13112513)	480801.50	3774463.98	8.44496	(13112513)
480851.50	3774463.98	7.10596	(13032513)	480901.50	3774463.98	6.07140	(13032513)
480951.50	3774463.98	5.15836	(13032513)	481001.50	3774463.98	4.37318	(13032513)
481051.50	3774463.98	3.70752	(13032513)	481101.50	3774463.98	3.14823	(13032513)
481151.50	3774463.98	2.81723	(13032513)	481201.50	3774463.98	2.40917	(13032513)
481251.50	3774463.98	2.07021	(13032513)	481301.50	3774463.98	1.78848	(13032513)
481351.50	3774463.98	1.55413	(13032513)	481401.50	3774463.98	1.35927	(13032513)
481451.50	3774463.98	1.19697	(13032513)	481501.50	3774463.98	1.06169	(13032513)
479301.50	3774513.98	0.42868	(13010713)	479351.50	3774513.98	0.45774	(13010713)
479401.50	3774513.98	0.48961	(13010713)	479451.50	3774513.98	0.52549	(13010713)
479501.50	3774513.98	0.56478	(13010713)	479551.50	3774513.98	0.60905	(13010713)
479601.50	3774513.98	0.65809	(13010713)	479651.50	3774513.98	0.71366	(13010713)
479701.50	3774513.98	0.77452	(13010713)	479751.50	3774513.98	0.84217	(13010713)
479801.50	3774513.98	0.91911	(13010713)	479851.50	3774513.98	1.00137	(13010713)
479901.50	3774513.98	1.09310	(13010713)	479951.50	3774513.98	1.18552	(13010713)
480001.50	3774513.98	1.28053	(13010713)	480051.50	3774513.98	1.36579	(13010713)
480101.50	3774513.98	1.42674	(13010713)	480151.50	3774513.98	1.45108	(13010713)

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        480201.50   3774513.98        1.38469  (13010713)                480251.50
3774513.98        2.38077  (12122413)
        480301.50   3774513.98        3.82700  (12122413)                480351.50
3774513.98        4.90097  (12122413)
        480401.50   3774513.98        4.95098  (15042713)                480451.50
3774513.98        9.65958  (13042913)
        480501.50   3774513.98       17.39143  (16032813)                480551.50
3774513.98       16.19516  (13042913)
        480601.50   3774513.98       22.52920  (13120913)                480651.50
3774513.98       14.84799  (13120913)
        480701.50   3774513.98       12.00219  (13120913)                480751.50
3774513.98        9.36813  (13120913)
        480801.50   3774513.98        7.28666  (12010913)                480851.50
3774513.98        5.95550  (13112513)
        480901.50   3774513.98        5.22177  (13112513)                480951.50
3774513.98        4.33202  (13112513)
        481001.50   3774513.98        3.58682  (13112513)                481051.50
3774513.98        3.15385  (13032513)
        481101.50   3774513.98        2.76745  (13032513)                481151.50
3774513.98        2.42253  (13032513)
        481201.50   3774513.98        2.11903  (13032513)                481251.50
3774513.98        1.85531  (13032513)
        481301.50   3774513.98        1.62802  (13032513)                481351.50
3774513.98        1.43361  (13032513)
        481401.50   3774513.98        1.26793  (13032513)                481451.50
3774513.98        1.12775  (13032513)
        481501.50   3774513.98        1.00898  (13032513)                481551.50
3774513.98        0.93063  (13032513)
        479301.50   3774563.98        0.39757  (13010713)                479351.50
3774563.98        0.42265  (13010713)
        479401.50   3774563.98        0.44992  (13010713)                479451.50
3774563.98        0.48012  (13010713)
        479501.50   3774563.98        0.51278  (13010713)                479551.50
3774563.98        0.54904  (13010713)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:46:25

                                  PAGE 128
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN      ***
                                  INCLUDING SOURCE(S):     STCK1       ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479601.50	3774563.98	0.58843	(13010713)	479651.50	3774563.98	0.63216	(13010713)
479701.50	3774563.98	0.67861	(13010713)	479751.50	3774563.98	0.72908	(13010713)
479801.50	3774563.98	0.78303	(13010713)	479851.50	3774563.98	0.83767	(13010713)
479901.50	3774563.98	0.89429	(13010713)	479951.50	3774563.98	0.94367	(13010713)
480001.50	3774563.98	0.98508	(13010713)	480051.50	3774563.98	1.00506	(13010713)
480101.50	3774563.98	0.99808	(13010713)	480151.50	3774563.98	1.35717	(12122413)
480201.50	3774563.98	2.18563	(12122413)	480251.50	3774563.98	3.33315	(12122413)
480301.50	3774563.98	4.40774	(12122413)	480351.50	3774563.98	4.73049	(12122413)
480401.50	3774563.98	4.85099	(15042713)	480451.50	3774563.98	8.35187	(16032813)
480501.50	3774563.98	15.01850	(16032813)	480551.50	3774563.98	12.53894	(16032813)
480601.50	3774563.98	11.54862	(13120913)	480651.50	3774563.98	11.93413	(13120913)
480701.50	3774563.98	10.54993	(13120913)	480751.50	3774563.98	8.90957	(13120913)
480801.50	3774563.98	7.27988	(13120913)	480851.50	3774563.98	5.82564	(13120913)
480901.50	3774563.98	4.60750	(13120913)	480951.50	3774563.98	3.73058	(12010913)
481001.50	3774563.98	3.13571	(13112513)	481051.50	3774563.98	2.76910	(13112513)
481101.50	3774563.98	2.32266	(13112513)	481151.50	3774563.98	2.02887	(14101313)
481201.50	3774563.98	1.76584	(14101313)	481251.50	3774563.98	1.57933	(13032513)
481301.50	3774563.98	1.42181	(13032513)	481351.50	3774563.98	1.28051	(13032513)
481401.50	3774563.98	1.15470	(13032513)	481451.50	3774563.98	1.04390	(13032513)
481501.50	3774563.98	0.94747	(13032513)	481551.50	3774563.98	0.86353	(13032513)
479301.50	3774613.98	0.38167	(14071413)	479351.50	3774613.98	0.39639	(14071413)
479401.50	3774613.98	0.41246	(14071413)	479451.50	3774613.98	0.42965	(14071413)
479501.50	3774613.98	0.45486	(13010713)	479551.50	3774613.98	0.48286	(13010713)

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        479601.50   3774613.98        0.51212  (13010713)               479651.50
3774613.98        0.54381  (13010713)
        479701.50   3774613.98        0.57596  (13010713)               479751.50
3774613.98        0.60982  (13010713)
        479801.50   3774613.98        0.64214  (13010713)               479851.50
3774613.98        0.67313  (13010713)
        479901.50   3774613.98        0.69845  (13010713)               479951.50
3774613.98        0.71758  (14071413)
        480001.50   3774613.98        0.76592  (14071413)               480051.50
3774613.98        0.81967  (14071413)
        480101.50   3774613.98        1.27856  (12122413)               480151.50
3774613.98        1.92907  (12122413)
        480201.50   3774613.98        2.76604  (12122413)               480251.50
3774613.98        3.64870  (12122413)
        480301.50   3774613.98        4.21210  (12122413)               480351.50
3774613.98        3.92100  (12122413)
        480401.50   3774613.98        4.48303  (15092113)               480451.50
3774613.98        7.65701  (16032813)
        480501.50   3774613.98       12.39838  (16032813)               480551.50
3774613.98       11.75071  (16032813)
        480601.50   3774613.98        7.96158  (13120913)               480651.50
3774613.98        8.73094  (13120913)
        480701.50   3774613.98        8.79228  (13120913)               480751.50
3774613.98        7.85998  (13120913)
        480801.50   3774613.98        6.73331  (13120913)               480851.50
3774613.98        5.61004  (13120913)
        480901.50   3774613.98        4.59048  (13120913)               480951.50
3774613.98        3.71302  (13120913)
        481001.50   3774613.98        2.98432  (13120913)               481051.50
3774613.98        2.39934  (12010913)
        481101.50   3774613.98        2.03104  (13112513)               481151.50
3774613.98        1.78709  (14101313)
        481201.50   3774613.98        1.58907  (14101313)               481251.50
3774613.98        1.41119  (14101313)
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                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN      ***
                                  INCLUDING SOURCE(S):     STCK1       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3774613.98	1.29197	(14101313)	481351.50	3774613.98	1.15361	(14101313)
481401.50	3774613.98	1.03585	(14101313)	481451.50	3774613.98	0.93547	(14101313)
481501.50	3774613.98	0.84968	(14101313)	481551.50	3774613.98	0.77929	(13032513)
479301.50	3774663.98	0.37826	(14071413)	479351.50	3774663.98	0.39255	(14071413)
479401.50	3774663.98	0.40818	(14071413)	479451.50	3774663.98	0.42474	(14071413)
479501.50	3774663.98	0.44277	(14071413)	479551.50	3774663.98	0.46218	(14071413)
479601.50	3774663.98	0.48321	(14071413)	479651.50	3774663.98	0.50613	(14071413)
479701.50	3774663.98	0.53078	(14071413)	479751.50	3774663.98	0.55814	(14071413)
479801.50	3774663.98	0.58753	(14071413)	479851.50	3774663.98	0.62012	(14071413)
479901.50	3774663.98	0.65540	(14071413)	479951.50	3774663.98	0.69405	(14071413)
480001.50	3774663.98	0.78625	(12122413)	480051.50	3774663.98	1.16700	(12122413)
480101.50	3774663.98	1.68601	(12122413)	480151.50	3774663.98	2.31956	(12122413)
480201.50	3774663.98	3.01046	(12122413)	480251.50	3774663.98	3.52540	(12122413)
480301.50	3774663.98	3.63133	(12122413)	480351.50	3774663.98	3.06820	(15092113)
480401.50	3774663.98	4.02274	(15092113)	480451.50	3774663.98	6.72621	(16032813)
480501.50	3774663.98	10.23208	(16032813)	480551.50	3774663.98	10.45147	(16032813)
480601.50	3774663.98	7.89721	(16032813)	480651.50	3774663.98	6.50383	(13120913)
480701.50	3774663.98	6.73323	(13120913)	480751.50	3774663.98	6.63039	(13120913)
480801.50	3774663.98	5.91593	(13120913)	480851.50	3774663.98	5.11431	(13120913)
480901.50	3774663.98	4.32381	(13120913)	480951.50	3774663.98	3.59805	(13120913)
481001.50	3774663.98	2.96142	(13120913)	481051.50	3774663.98	2.42020	(13120913)
481101.50	3774663.98	1.97005	(13120913)	481151.50	3774663.98	1.60089	(13120913)
481201.50	3774663.98	1.38987	(14101313)	481251.50	3774663.98	1.26891	(14101313)

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        481301.50   3774663.98        1.15502  (14101313)               481351.50
3774663.98        1.05045  (14101313)
        481401.50   3774663.98        0.95662  (14101313)               481451.50
3774663.98        0.87395  (14101313)
        481501.50   3774663.98        0.82083  (14101313)               481551.50
3774663.98        0.75675  (14101313)
        479301.50   3774713.98        0.37435  (14071413)               479351.50
3774713.98        0.38826  (14071413)
        479401.50   3774713.98        0.40330  (14071413)               479451.50
3774713.98        0.41919  (14071413)
        479501.50   3774713.98        0.43663  (14071413)               479551.50
3774713.98        0.45502  (14071413)
        479601.50   3774713.98        0.47526  (14071413)               479651.50
3774713.98        0.49670  (14071413)
        479701.50   3774713.98        0.52021  (14071413)               479751.50
3774713.98        0.54546  (14071413)
        479801.50   3774713.98        0.57283  (14071413)               479851.50
3774713.98        0.60272  (14071413)
        479901.50   3774713.98        0.63472  (14071413)               479951.50
3774713.98        0.73992  (12122413)
        480001.50   3774713.98        1.05464  (12122413)               480051.50
3774713.98        1.46847  (12122413)
        480101.50   3774713.98        1.96799  (12122413)               480151.50
3774713.98        2.50659  (12122413)
        480201.50   3774713.98        2.96242  (12122413)               480251.50
3774713.98        3.19181  (12122413)
        480301.50   3774713.98        2.98604  (12122413)               480351.50
3774713.98        2.94202  (15092113)
        480401.50   3774713.98        3.57347  (15092113)               480451.50
3774713.98        5.97194  (16032813)
        480501.50   3774713.98        8.62497  (16032813)               480551.50
3774713.98        9.11777  (16032813)
        480601.50   3774713.98        7.59124  (16032813)               480651.50
3774713.98        5.23357  (16032813)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:46:25

                                   PAGE 130
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN      ***
                                   INCLUDING SOURCE(S):     STCK1       ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480701.50	3774713.98	5.20104	(13120913)	480751.50	3774713.98	5.17563	(13120913)
480801.50	3774713.98	5.03613	(13120913)	480851.50	3774713.98	4.49606	(13120913)
480901.50	3774713.98	3.91637	(13120913)	480951.50	3774713.98	3.34887	(13120913)
481001.50	3774713.98	2.82374	(13120913)	481051.50	3774713.98	2.35654	(13120913)
481101.50	3774713.98	1.95288	(13120913)	481151.50	3774713.98	1.61074	(13120913)
481201.50	3774713.98	1.32523	(13120913)	481251.50	3774713.98	1.09041	(12010913)
481301.50	3774713.98	1.00504	(14101313)	481351.50	3774713.98	0.93712	(14101313)
481401.50	3774713.98	0.87202	(14101313)	481451.50	3774713.98	0.81154	(14101313)
481501.50	3774713.98	0.75620	(14101313)	479301.50	3774763.98	0.37001	(14071413)
479351.50	3774763.98	0.38364	(14071413)	479401.50	3774763.98	0.39787	(14071413)
479451.50	3774763.98	0.41321	(14071413)	479501.50	3774763.98	0.42973	(14071413)
479551.50	3774763.98	0.44720	(14071413)	479601.50	3774763.98	0.46635	(14071413)
479651.50	3774763.98	0.48652	(14071413)	479701.50	3774763.98	0.50851	(14071413)
479751.50	3774763.98	0.53195	(14071413)	479801.50	3774763.98	0.55751	(14071413)
479851.50	3774763.98	0.58446	(14071413)	479901.50	3774763.98	0.68460	(12122413)
479951.50	3774763.98	0.95065	(12122413)	480001.50	3774763.98	1.28333	(12122413)
480051.50	3774763.98	1.68493	(12122413)	480101.50	3774763.98	2.10753	(12122413)
480151.50	3774763.98	2.49972	(12122413)	480201.50	3774763.98	2.75122	(12122413)
480251.50	3774763.98	2.74751	(12122413)	480301.50	3774763.98	2.40417	(12122413)
480351.50	3774763.98	2.75182	(15092113)	480401.50	3774763.98	3.17078	(15092113)
480451.50	3774763.98	5.18316	(16032813)	480501.50	3774763.98	7.21409	(16032813)
480551.50	3774763.98	7.77376	(16032813)	480601.50	3774763.98	6.90534	(16032813)
480651.50	3774763.98	5.22478	(16032813)	480701.50	3774763.98	3.85989	(13120913)

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        480751.50   3774763.98        4.09966  (13120913)               480801.50
3774763.98        3.99129  (13120913)
        480851.50   3774763.98        3.86016  (13120913)               480901.50
3774763.98        3.45249  (13120913)
        480951.50   3774763.98        3.02706  (13120913)               481001.50
3774763.98        2.61274  (13120913)
        481051.50   3774763.98        2.22745  (13120913)               481101.50
3774763.98        1.88137  (13120913)
        481151.50   3774763.98        1.57810  (13120913)               481201.50
3774763.98        1.31721  (13120913)
        481251.50   3774763.98        1.09613  (13120913)               481301.50
3774763.98        0.89359  (12010913)
        481351.50   3774763.98        0.79703  (14101313)               481401.50
3774763.98        0.76055  (14101313)
        481451.50   3774763.98        0.72345  (14101313)               481501.50
3774763.98        0.68717  (14101313)
        479301.50   3774813.98        0.36529  (14071413)               479351.50
3774813.98        0.37839  (14071413)
        479401.50   3774813.98        0.39200  (14071413)               479451.50
3774813.98        0.40676  (14071413)
        479501.50   3774813.98        0.42233  (14071413)               479551.50
3774813.98        0.43913  (14071413)
        479601.50   3774813.98        0.45689  (14071413)               479651.50
3774813.98        0.47578  (14071413)
        479701.50   3774813.98        0.49630  (14071413)               479751.50
3774813.98        0.51789  (14071413)
        479801.50   3774813.98        0.54132  (14071413)               479851.50
3774813.98        0.63221  (12122413)
        479901.50   3774813.98        0.85402  (12122413)               479951.50
3774813.98        1.12990  (12122413)
        480001.50   3774813.98        1.44915  (12122413)               480051.50
3774813.98        1.79952  (12122413)
        480101.50   3774813.98        2.12286  (12122413)               480151.50
3774813.98        2.36874  (12122413)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:46:25

                                   PAGE 131
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN      ***
                                   INCLUDING SOURCE(S):     STCK1       ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
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```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480201.50	3774813.98	2.45210	(12122413)	480251.50	3774813.98	2.30795	(12122413)
480301.50	3774813.98	2.02137	(15092113)	480351.50	3774813.98	2.54491	(15092113)
480401.50	3774813.98	2.81999	(15092113)	480451.50	3774813.98	4.44096	(16032813)
480501.50	3774813.98	5.69495	(16032813)	480551.50	3774813.98	6.56363	(16032813)
480601.50	3774813.98	6.09736	(16032813)	480651.50	3774813.98	4.93385	(16032813)
480701.50	3774813.98	3.57892	(16032813)	480751.50	3774813.98	3.12932	(13120913)
480801.50	3774813.98	3.22481	(13120913)	480851.50	3774813.98	3.09996	(13120913)
480901.50	3774813.98	2.98768	(13120913)	480951.50	3774813.98	2.67930	(13120913)
481001.50	3774813.98	2.36365	(13120913)	481051.50	3774813.98	2.05754	(13120913)
481101.50	3774813.98	1.77181	(13120913)	481151.50	3774813.98	1.51284	(13120913)
481201.50	3774813.98	1.28348	(13120913)	481251.50	3774813.98	1.08361	(13120913)
481301.50	3774813.98	0.91197	(13120913)	481351.50	3774813.98	0.74347	(12010913)
481401.50	3774813.98	0.66078	(12010913)	481451.50	3774813.98	0.62194	(14101313)
481501.50	3774813.98	0.60353	(14101313)	479301.50	3774863.98	0.36025	(14071413)
479351.50	3774863.98	0.37278	(14071413)	479401.50	3774863.98	0.38577	(14071413)
479451.50	3774863.98	0.39988	(14071413)	479501.50	3774863.98	0.41455	(14071413)
479551.50	3774863.98	0.43046	(14071413)	479601.50	3774863.98	0.44702	(14071413)
479651.50	3774863.98	0.46463	(14071413)	479701.50	3774863.98	0.48369	(14071413)
479751.50	3774863.98	0.50350	(14071413)	479801.50	3774863.98	0.58193	(12122413)
479851.50	3774863.98	0.76906	(12122413)	479901.50	3774863.98	0.99768	(12122413)
479951.50	3774863.98	1.26302	(12122413)	480001.50	3774863.98	1.54997	(12122413)
480051.50	3774863.98	1.82582	(12122413)	480101.50	3774863.98	2.04625	(12122413)
480151.50	3774863.98	2.16694	(12122413)	480201.50	3774863.98	2.12984	(12122413)

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        480251.50   3774863.98        1.91191  (12122413)               480301.50
3774863.98        1.94461  (15092113)
        480351.50   3774863.98        2.34011  (15092113)               480401.50
3774863.98        2.51797  (15092113)
        480451.50   3774863.98        3.78118  (16032813)               480501.50
3774863.98        4.78177  (16032813)
        480551.50   3774863.98        5.52223  (16032813)               480601.50
3774863.98        5.29631  (16032813)
        480651.50   3774863.98        4.50409  (16032813)               480701.50
3774863.98        3.47164  (16032813)
        480751.50   3774863.98        2.47456  (16032813)               480801.50
3774863.98        2.51919  (13120913)
        480851.50   3774863.98        2.54569  (13120913)               480901.50
3774863.98        2.42933  (13120913)
        480951.50   3774863.98        2.33638  (13120913)               481001.50
3774863.98        2.10315  (13120913)
        481051.50   3774863.98        1.86732  (13120913)               481101.50
3774863.98        1.63901  (13120913)
        481151.50   3774863.98        1.42505  (13120913)               481201.50
3774863.98        1.22979  (13120913)
        481251.50   3774863.98        1.05477  (13120913)               481301.50
3774863.98        0.90051  (13120913)
        481351.50   3774863.98        0.76628  (13120913)               481401.50
3774863.98        0.63318  (13120913)
        481451.50   3774863.98        0.56722  (12010913)               481501.50
3774863.98        0.51477  (14101313)
        479301.50   3774913.98        0.35492  (14071413)               479351.50
3774913.98        0.36689  (14071413)
        479401.50   3774913.98        0.37923  (14071413)               479451.50
3774913.98        0.39261  (14071413)
        479501.50   3774913.98        0.40645  (14071413)               479551.50
3774913.98        0.42140  (14071413)
        479601.50   3774913.98        0.43686  (14071413)               479651.50
3774913.98        0.45322  (14071413)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:46:25

                                   PAGE 132
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN      ***
                                   INCLUDING SOURCE(S):     STCK1       ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
479701.50	3774913.98	0.47083	(14071413)	479751.50	3774913.98	0.53352	(12122413)
479801.50	3774913.98	0.69506	(12122413)	479851.50	3774913.98	0.88658	(12122413)
479901.50	3774913.98	1.10691	(12122413)	479951.50	3774913.98	1.34532	(12122413)
480001.50	3774913.98	1.58177	(12122413)	480051.50	3774913.98	1.78278	(12122413)
480101.50	3774913.98	1.91084	(12122413)	480151.50	3774913.98	1.93662	(12122413)
480201.50	3774913.98	1.81878	(12122413)	480251.50	3774913.98	1.57216	(12122413)
480301.50	3774913.98	1.84856	(15092113)	480351.50	3774913.98	2.14710	(15092113)
480401.50	3774913.98	2.25892	(15092113)	480451.50	3774913.98	3.20914	(16032813)
480501.50	3774913.98	4.01888	(16032813)	480551.50	3774913.98	4.64731	(16032813)
480601.50	3774913.98	4.56374	(16032813)	480651.50	3774913.98	4.03148	(16032813)
480701.50	3774913.98	3.25753	(16032813)	480751.50	3774913.98	2.44967	(16032813)
480801.50	3774913.98	1.91690	(13120913)	480851.50	3774913.98	2.02847	(13120913)
480901.50	3774913.98	2.02348	(13120913)	480951.50	3774913.98	1.92395	(13120913)
481001.50	3774913.98	1.84855	(13120913)	481051.50	3774913.98	1.67201	(13120913)
481101.50	3774913.98	1.49480	(13120913)	481151.50	3774913.98	1.32342	(13120913)
481201.50	3774913.98	1.16181	(13120913)	481251.50	3774913.98	1.01318	(13120913)
481301.50	3774913.98	0.87872	(13120913)	481351.50	3774913.98	0.75874	(13120913)
481401.50	3774913.98	0.65295	(13120913)	481451.50	3774913.98	0.54840	(13120913)
481501.50	3774913.98	0.49433	(12010913)	479301.50	3774963.98	0.34937	(14071413)
479351.50	3774963.98	0.36077	(14071413)	479401.50	3774963.98	0.37246	(14071413)
479451.50	3774963.98	0.38511	(14071413)	479501.50	3774963.98	0.39812	(14071413)
479551.50	3774963.98	0.41213	(14071413)	479601.50	3774963.98	0.42654	(14071413)
479651.50	3774963.98	0.44169	(14071413)	479701.50	3774963.98	0.49078	(12122413)

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        479751.50   3774963.98        0.62885  (12122413)               479801.50
3774963.98        0.79289  (12122413)
        479851.50   3774963.98        0.97790  (12122413)               479901.50
3774963.98        1.17816  (12122413)
        479951.50   3774963.98        1.37945  (12122413)               480001.50
3774963.98        1.56049  (12122413)
        480051.50   3774963.98        1.69113  (12122413)               480101.50
3774963.98        1.74289  (12122413)
        480151.50   3774963.98        1.69958  (12122413)               480201.50
3774963.98        1.53951  (12122413)
        480251.50   3774963.98        1.42114  (15092113)               480301.50
3774963.98        1.74459  (15092113)
        480351.50   3774963.98        1.96974  (15092113)               480401.50
3774963.98        2.03558  (15092113)
        480451.50   3774963.98        2.72311  (16032813)               480501.50
3774963.98        3.38705  (16032813)
        480551.50   3774963.98        3.92013  (16032813)               480601.50
3774963.98        3.91928  (16032813)
        480651.50   3774963.98        3.56692  (16032813)               480701.50
3774963.98        2.99155  (16032813)
        480751.50   3774963.98        2.34609  (16032813)               480801.50
3774963.98        1.73954  (16032813)
        480851.50   3774963.98        1.57976  (13120913)               480901.50
3774963.98        1.64149  (13120913)
        480951.50   3774963.98        1.62374  (13120913)               481001.50
3774963.98        1.54240  (13120913)
        481051.50   3774963.98        1.48162  (13120913)               481101.50
3774963.98        1.34824  (13120913)
        481151.50   3774963.98        1.21462  (13120913)               481201.50
3774963.98        1.08496  (13120913)
        481251.50   3774963.98        0.96198  (13120913)               481301.50
3774963.98        0.84772  (13120913)
        481351.50   3774963.98        0.74327  (13120913)               481401.50
3774963.98        0.64906  (13120913)
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN   ***
                                  INCLUDING SOURCE(S):   STCK1   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481451.50	3774963.98	0.56497	(13120913)	480801.50	3775013.98	1.69139	(16032813)
480851.50	3775013.98	1.24069	(16032813)	480901.50	3775013.98	1.30562	(13120913)
480951.50	3775013.98	1.33983	(13120913)	481001.50	3775013.98	1.31856	(13120913)
481051.50	3775013.98	1.25396	(13120913)	481101.50	3775013.98	1.20524	(13120913)
481151.50	3775013.98	1.10446	(13120913)	481201.50	3775013.98	1.00324	(13120913)
481251.50	3775013.98	0.90436	(13120913)	481301.50	3775013.98	0.80986	(13120913)
481351.50	3775013.98	0.72115	(13120913)	481401.50	3775013.98	0.63929	(13120913)
481451.50	3775013.98	0.56448	(13120913)	480801.50	3775063.98	1.60968	(16032813)
480851.50	3775063.98	1.22006	(16032813)	480901.50	3775063.98	1.02552	(13120913)
480951.50	3775063.98	1.08740	(13120913)	481001.50	3775063.98	1.10585	(13120913)
481051.50	3775063.98	1.08551	(13120913)	481101.50	3775063.98	1.03533	(13120913)
481151.50	3775063.98	0.99642	(13120913)	481201.50	3775063.98	0.92009	(13120913)
481251.50	3775063.98	0.84290	(13120913)	481301.50	3775063.98	0.76691	(13120913)
481351.50	3775063.98	0.69355	(13120913)	481401.50	3775063.98	0.62392	(13120913)
481451.50	3775063.98	0.55905	(13120913)	480801.50	3775113.98	1.51046	(16032813)
480851.50	3775113.98	1.17579	(16032813)	480901.50	3775113.98	0.87678	(16032813)
480951.50	3775113.98	0.87397	(13120913)	481001.50	3775113.98	0.91521	(13120913)
481051.50	3775113.98	0.92498	(13120913)	481101.50	3775113.98	0.90738	(13120913)
481151.50	3775113.98	0.86886	(13120913)	481201.50	3775113.98	0.83766	(13120913)
481251.50	3775113.98	0.77962	(13120913)	481301.50	3775113.98	0.72047	(13120913)
481351.50	3775113.98	0.66158	(13120913)	481401.50	3775113.98	0.60401	(13120913)
481451.50	3775113.98	0.54886	(13120913)	480801.50	3775163.98	1.40422	(16032813)
480851.50	3775163.98	1.11807	(16032813)	480901.50	3775163.98	0.85702	(16032813)

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        480951.50   3775163.98        0.70023  (13120913)               481001.50
3775163.98        0.75176  (13120913)
        481051.50   3775163.98        0.77979  (13120913)               481101.50
3775163.98        0.78503  (13120913)
        481151.50   3775163.98        0.77058  (13120913)               481201.50
3775163.98        0.74135  (13120913)
        481251.50   3775163.98        0.71622  (13120913)               481301.50
3775163.98        0.67199  (13120913)
        481351.50   3775163.98        0.62629  (13120913)               481401.50
3775163.98        0.58006  (13120913)
        481451.50   3775163.98        0.53431  (13120913)               480801.50
3775213.98        1.29722  (16032813)
        480851.50   3775213.98        1.05320  (16032813)               480901.50
3775213.98        0.82401  (16032813)
        480951.50   3775213.98        0.61504  (16032813)               481001.50
3775213.98        0.61622  (13120913)
        481051.50   3775213.98        0.65373  (13120913)               481101.50
3775213.98        0.67335  (13120913)
        481151.50   3775213.98        0.67632  (13120913)               481201.50
3775213.98        0.66510  (13120913)
        481251.50   3775213.98        0.64279  (13120913)               481301.50
3775213.98        0.62268  (13120913)
        481351.50   3775213.98        0.58870  (13120913)               481401.50
3775213.98        0.55273  (13120913)
        481451.50   3775213.98        0.51589  (13120913)               480801.50
3775263.98        1.19545  (16032813)
        480851.50   3775263.98        0.98802  (16032813)               480901.50
3775263.98        0.78674  (16032813)
        480951.50   3775263.98        0.60078  (16032813)               481001.50
3775263.98        0.50752  (13042913)
        481051.50   3775263.98        0.54694  (13120913)               481101.50
3775263.98        0.57480  (13120913)
        481151.50   3775263.98        0.58932  (13120913)               481201.50
3775263.98        0.59127  (13120913)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:46:25

                                    PAGE 134
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN      ***
                                    INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481251.50	3775263.98	0.58276	(13120913)	481301.50	3775263.98	0.56603	(13120913)
481351.50	3775263.98	0.54948	(13120913)	481401.50	3775263.98	0.52305	(13120913)
481451.50	3775263.98	0.49462	(13120913)	480801.50	3775313.98	1.10155	(16032813)
480851.50	3775313.98	0.92512	(16032813)	480901.50	3775313.98	0.74821	(16032813)
480951.50	3775313.98	0.58201	(16032813)	481001.50	3775313.98	0.46323	(13042913)
481051.50	3775313.98	0.45842	(13120913)	481101.50	3775313.98	0.48994	(13120913)
481151.50	3775313.98	0.51131	(13120913)	481201.50	3775313.98	0.52256	(13120913)
481251.50	3775313.98	0.52414	(13120913)	481301.50	3775313.98	0.51785	(13120913)
481351.50	3775313.98	0.50491	(13120913)	481401.50	3775313.98	0.49148	(13120913)
480801.50	3775363.98	1.01523	(16032813)	480851.50	3775363.98	0.86530	(16032813)
480901.50	3775363.98	0.71053	(16032813)	480951.50	3775363.98	0.56099	(16032813)
481001.50	3775363.98	0.42548	(16032813)	481051.50	3775363.98	0.40954	(13042913)
481101.50	3775363.98	0.41795	(13120913)	481151.50	3775363.98	0.44312	(13120913)
481201.50	3775363.98	0.46013	(13120913)	481251.50	3775363.98	0.46897	(13120913)
481301.50	3775363.98	0.47039	(13120913)	481351.50	3775363.98	0.46579	(13120913)
481401.50	3775363.98	0.45587	(13120913)	480801.50	3775413.98	0.93740	(16032813)
480851.50	3775413.98	0.81043	(16032813)	480901.50	3775413.98	0.67473	(16032813)
480951.50	3775413.98	0.54260	(16032813)	481001.50	3775413.98	0.41766	(16032813)
481051.50	3775413.98	0.37975	(13042913)	481101.50	3775413.98	0.36851	(14071413)
481151.50	3775413.98	0.38369	(13120913)	481201.50	3775413.98	0.40408	(13120913)
481251.50	3775413.98	0.41786	(13120913)	481301.50	3775413.98	0.42553	(13120913)
481351.50	3775413.98	0.42694	(13120913)	481401.50	3775413.98	0.42341	(13120913)
480801.50	3775463.98	0.86782	(16032813)	480851.50	3775463.98	0.75959	(16032813)

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        480901.50   3775463.98        0.64130  (16032813)               480951.50
3775463.98        0.52249  (16032813)
        481001.50   3775463.98        0.40997  (16032813)               481051.50
3775463.98        0.36326  (14071413)
        481101.50   3775463.98        0.35674  (14071413)               481151.50
3775463.98        0.35019  (14071413)
        481201.50   3775463.98        0.35455  (13120913)               481251.50
3775463.98        0.37146  (13120913)
        481301.50   3775463.98        0.38310  (13120913)               481351.50
3775463.98        0.38964  (13120913)
        481401.50   3775463.98        0.39110  (13120913)               480801.50
3775513.98        0.80542  (16032813)
        480851.50   3775513.98        0.71389  (16032813)               480901.50
3775513.98        0.60998  (16032813)
        480951.50   3775513.98        0.50436  (16032813)               481001.50
3775513.98        0.40129  (16032813)
        481051.50   3775513.98        0.35146  (14071413)               481101.50
3775513.98        0.34566  (14071413)
        481151.50   3775513.98        0.33955  (14071413)               481201.50
3775513.98        0.33348  (14071413)
        481251.50   3775513.98        0.32950  (13120913)               481301.50
3775513.98        0.34401  (13120913)
        481351.50   3775513.98        0.35392  (13120913)               481401.50
3775513.98        0.35921  (13120913)
        480801.50   3775563.98        0.74909  (16032813)               480851.50
3775563.98        0.67243  (16032813)
        480901.50   3775563.98        0.58224  (16032813)               480951.50
3775563.98        0.48743  (16032813)
        481001.50   3775563.98        0.39379  (16032813)               481051.50
3775563.98        0.34042  (14071413)
        481101.50   3775563.98        0.33504  (14071413)               481151.50
3775563.98        0.32957  (14071413)
        481201.50   3775563.98        0.32392  (14071413)               481251.50
3775563.98        0.31822  (14071413)
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN   ***
                                    INCLUDING SOURCE(S):   STCK1   ,

                                         *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3775563.98	0.31253	(14071413)	481351.50	3775563.98	0.31988	(13120913)
481401.50	3775563.98	0.32824	(13120913)	479332.46	3774240.22	0.48742	(13010713)
479382.46	3774240.22	0.52302	(13010713)	479432.46	3774240.22	0.56326	(13010713)
479482.46	3774240.22	0.60781	(13010713)	479532.46	3774240.22	0.65874	(13010713)
479582.46	3774240.22	0.71540	(13010713)	479632.46	3774240.22	0.78005	(13010713)
479682.46	3774240.22	0.85383	(13010713)	479732.46	3774240.22	0.93701	(13010713)
479782.46	3774240.22	1.03408	(13010713)	479832.46	3774240.22	1.14253	(13010713)
479882.46	3774240.22	1.26548	(13010713)	479932.46	3774240.22	1.40345	(13010713)
479332.46	3774290.22	0.50055	(13010713)	479382.46	3774290.22	0.53870	(13010713)
479432.46	3774290.22	0.58098	(13010713)	479482.46	3774290.22	0.62862	(13010713)
479532.46	3774290.22	0.68327	(13010713)	479582.46	3774290.22	0.74456	(13010713)
479632.46	3774290.22	0.81577	(13010713)	479682.46	3774290.22	0.89618	(13010713)
479732.46	3774290.22	0.98894	(13010713)	479782.46	3774290.22	1.09792	(13010713)
479832.46	3774290.22	1.22256	(13010713)	479882.46	3774290.22	1.36675	(13010713)
479932.46	3774290.22	1.53604	(13010713)	479332.46	3774340.22	0.50433	(13010713)
479382.46	3774340.22	0.54321	(13010713)	479432.46	3774340.22	0.58638	(13010713)
479482.46	3774340.22	0.63539	(13010713)	479532.46	3774340.22	0.69116	(13010713)
479582.46	3774340.22	0.75419	(13010713)	479632.46	3774340.22	0.82761	(13010713)
479682.46	3774340.22	0.91098	(13010713)	479732.46	3774340.22	1.00901	(13010713)
479782.46	3774340.22	1.12109	(13010713)	479832.46	3774340.22	1.25233	(13010713)
479882.46	3774340.22	1.40787	(13010713)	479932.46	3774340.22	1.58964	(13010713)
479332.46	3774390.22	0.49868	(13010713)	479382.46	3774390.22	0.53669	(13010713)
479432.46	3774390.22	0.57906	(13010713)	479482.46	3774390.22	0.62754	(13010713)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 , L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 , L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 , L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480415.97	3774200.25	544.09381	(12021516)	480386.35	3774201.62	568.67902	(12021516)
480364.52	3774200.25	467.09968	(12021516)	480441.34	3774196.20	548.42147	(12021516)
480332.65	3774203.34	359.56189	(16123116)	480281.98	3774208.10	345.49920	(16123116)
480259.39	3774210.95	327.90044	(16123116)	480179.23	3774215.23	229.10143	(16123116)
479777.13	3774155.68	77.40181	(12012824)	479903.88	3774153.05	94.70734	(12012822)
479888.73	3774072.72	91.54993	(16123116)	480286.74	3774147.78	235.81072	(12021517)
479532.46	3774390.22	0.68175	(13010713)	479582.46	3774390.22	0.74418	(13010713)
479632.46	3774390.22	0.81512	(13010713)	479682.46	3774390.22	0.89786	(13010713)
479732.46	3774390.22	0.99189	(13010713)	479782.46	3774390.22	1.10084	(13010713)
479832.46	3774390.22	1.22913	(13010713)	479882.46	3774390.22	1.37905	(13010713)
479932.46	3774390.22	1.55395	(13010713)				

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        480415.64   3774088.13      241.75252  (16121116)               480408.03
3774009.17      183.65356  (13112916)
        480445.38   3774004.65      199.60700  (13112916)               480447.28
3774028.67      216.81701  (13112916)
        480276.83   3774266.75      357.11643  (16123116)               480151.33
3774266.75      191.63235  (12111302)
        480135.30   3774266.75      183.00306  (12111302)               479301.50
3774413.98       42.94723  (12030223)
        479351.50   3774413.98       45.33931  (12030223)               479401.50
3774413.98       47.65914  (12030223)
        479451.50   3774413.98       50.31380  (12030223)               479501.50
3774413.98       53.30436  (12030223)
        479551.50   3774413.98       56.37010  (12030223)               479601.50
3774413.98       60.21456  (14022723)
        479651.50   3774413.98       65.03525  (14022723)               479701.50
3774413.98       70.88292  (14022723)
        479751.50   3774413.98       77.02793  (14022723)               479801.50
3774413.98       84.02433  (14022723)
        479851.50   3774413.98       92.65651  (14022723)               479901.50
3774413.98      101.99249  (14022723)
        479951.50   3774413.98      113.58112  (14022723)               480001.50
3774413.98      126.33591  (14022723)
        480051.50   3774413.98      142.17660  (14022723)               480101.50
3774413.98      161.26311  (14022723)
        480151.50   3774413.98      184.21323  (14022723)               480201.50
3774413.98      219.06822  (12040703)
        480251.50   3774413.98      270.85906  (12012316)               480301.50
3774413.98      352.82514  (12012316)
        480351.50   3774413.98      451.74543  (12012316)               480401.50
3774413.98      583.40388  (14120316)
        480451.50   3774413.98      856.86166  (14120316)               480501.50
3774413.98     1044.06893  (14120316)
        480551.50   3774413.98      983.72521  (12041107)               480601.50
3774413.98     1259.13135  (12022716)
        480651.50   3774413.98     1182.58798  (12022716)               480701.50
3774413.98      709.33606  (13041407)
        480751.50   3774413.98      556.03930  (12031716)               480801.50
3774413.98      419.73062  (12031716)
        480851.50   3774413.98      312.22339  (12081120)               480901.50
3774413.98      254.80910  (12081222)
        480951.50   3774413.98      216.32588  (12081222)               481001.50
3774413.98      185.94452  (14102317)
        481051.50   3774413.98      167.42393  (14102317)               481101.50
3774413.98      150.48208  (14102317)
        481151.50   3774413.98      146.94683  (14102317)               481201.50
3774413.98      146.09566  (14102317)
        481251.50   3774413.98      137.41917  (14102317)               481301.50
3774413.98      128.81380  (12082720)
        481351.50   3774413.98      123.90706  (12082720)               481401.50
3774413.98      116.78311  (12082720)
        481451.50   3774413.98      112.87757  (12082720)               479301.50
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                           *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
                           INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 ,
                             L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 ,
                             L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 ,
                             L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                           ** CONC OF PM_10 IN MICROGRAMS/M**3
                **

     X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
 - - -

3774463.98 410.47726 (14120316)
480451.50 3774463.98 459.44231 (14120316) 480501.50
3774463.98 472.96400 (12121607)
480551.50 3774463.98 501.00337 (14022508) 480601.50
3774463.98 581.77328 (12022716)
480651.50 3774463.98 682.17411 (12022716) 480701.50
3774463.98 580.74865 (12022716)
480751.50 3774463.98 377.71981 (12092019) 480801.50
3774463.98 313.49356 (12031716)
480851.50 3774463.98 284.49668 (12031716) 480901.50
3774463.98 241.22555 (12031716)
480951.50 3774463.98 198.72488 (15073021) 481001.50
3774463.98 167.58195 (12081120)
481051.50 3774463.98 155.43106 (12081120) 481101.50
3774463.98 136.68973 (12081120)
481151.50 3774463.98 136.97281 (12060722) 481201.50
3774463.98 139.47449 (12060722)
481251.50 3774463.98 132.52674 (12060722) 481301.50
3774463.98 125.69128 (12050320)
481351.50 3774463.98 121.24883 (12050320) 481401.50
3774463.98 114.92092 (12090821)
481451.50 3774463.98 110.76887 (12081521) 481501.50
3774463.98 107.37493 (12081521)
479301.50 3774513.98 43.51467 (14022723) 479351.50
3774513.98 45.80095 (14022723)
479401.50 3774513.98 48.05781 (14022723) 479451.50
3774513.98 50.72871 (14022723)
479501.50 3774513.98 53.24623 (14022723) 479551.50
3774513.98 56.12674 (14022723)
479601.50 3774513.98 59.14106 (12040703) 479651.50
3774513.98 64.65860 (12040703)
479701.50 3774513.98 70.21341 (12040703) 479751.50
3774513.98 76.17329 (12040703)
479801.50 3774513.98 83.18207 (14011323) 479851.50
3774513.98 90.64026 (14011323)
479901.50 3774513.98 99.23288 (14011323) 479951.50
3774513.98 107.40341 (14011323)
480001.50 3774513.98 116.26046 (14011323) 480051.50
3774513.98 125.22499 (14011322)
480101.50 3774513.98 141.37648 (14011322) 480151.50
3774513.98 158.40092 (14011322)
480201.50 3774513.98 172.74324 (14011322) 480251.50
3774513.98 184.17105 (14120316)
480301.50 3774513.98 214.60262 (14120316) 480351.50
3774513.98 240.08793 (14120316)
480401.50 3774513.98 249.55102 (14120316) 480451.50
3774513.98 308.28786 (12121607)
480501.50 3774513.98 324.96038 (12121607) 480551.50
3774513.98 354.30107 (14022508)
480601.50 3774513.98 354.05062 (14022508) 480651.50
3774513.98 419.60401 (12022716)

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        480701.50   3774513.98      442.19111  (12022716)               480751.50
3774513.98      371.69174  (12022716)
        480801.50   3774513.98      267.37803  (12092019)               480851.50
3774513.98      224.37444  (12092019)
        480901.50   3774513.98      194.92242  (12060724)               480951.50
3774513.98      182.59800  (12082819)
        481001.50   3774513.98      172.64860  (12082819)               481051.50
3774513.98      151.74298  (12082819)
        481101.50   3774513.98      143.05392  (15073021)               481151.50
3774513.98      142.55853  (12081120)
        481201.50   3774513.98      138.96355  (12081120)               481251.50
3774513.98      133.70446  (12081120)
        481301.50   3774513.98      127.19955  (12082921)               481351.50
3774513.98      118.44963  (12082921)
        481401.50   3774513.98      115.62380  (12100407)               481451.50
3774513.98      108.21931  (12100407)
        481501.50   3774513.98      105.50837  (12092122)               481551.50
3774513.98       98.31255  (12092122)
        479301.50   3774563.98       41.17233  (14022723)               479351.50
3774563.98       43.30358  (12040703)
        479401.50   3774563.98       46.41714  (12040703)               479451.50
3774563.98       49.91469  (12040703)
        479501.50   3774563.98       53.36485  (12040703)               479551.50
3774563.98       57.23673  (12040703)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***         04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***         17:46:25

                                   PAGE 138
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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3774613.98   68.79134 (14011322)
        479801.50   3774613.98   75.25034 (14011322)   479851.50
3774613.98   81.78549 (14011322)
        479901.50   3774613.98   87.65530 (14011322)   479951.50
3774613.98   92.43529 (14011322)
        480001.50   3774613.98   96.34408 (14011322)   480051.50
3774613.98   98.92031 (13070106)
        480101.50   3774613.98   105.54351 (13070106)   480151.50
3774613.98   108.60524 (13070106)
        480201.50   3774613.98   107.57148 (13070106)   480251.50
3774613.98   109.15573 (12121608)
        480301.50   3774613.98   127.89446 (12121607)   480351.50
3774613.98   159.91876 (12121607)
        480401.50   3774613.98   186.31279 (12121607)   480451.50
3774613.98   193.67648 (12121607)
        480501.50   3774613.98   195.87536 (12021321)   480551.50
3774613.98   216.04664 (14022508)
        480601.50   3774613.98   219.61438 (14022508)   480651.50
3774613.98   195.41980 (12121601)
        480701.50   3774613.98   211.90002 (12022716)   480751.50
3774613.98   242.59340 (12022716)
        480801.50   3774613.98   230.31523 (12022716)   480851.50
3774613.98   193.45712 (12022716)
        480901.50   3774613.98   162.67176 (12092019)   480951.50
3774613.98   153.31702 (12092019)
        481001.50   3774613.98   134.93278 (12092019)   481051.50
3774613.98   138.53095 (12052222)
        481101.50   3774613.98   144.05857 (12052222)   481151.50
3774613.98   137.08262 (13081722)
        481201.50   3774613.98   130.69000 (12060724)   481251.50
3774613.98   126.08594 (12082819)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0002111   , L0002112
, L0002113   , L0002114   , L0002115   ,
                  L0002116   , L0002117   , L0002118   , L0002119   , L0002120
, L0002121   , L0002122   , L0002123   ,
                  L0002124   , L0002125   , L0002126   , L0002127   , L0002128
, L0002129   , L0002130   , L0002131   ,
                  L0002132   , L0002133   , L0002134   , L0002135   , L0002136
, L0002137   , L0002138   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481301.50	3774613.98	119.07631	(12082819)	481351.50	3774613.98	114.23853	(14061006)
481401.50	3774613.98	111.92535	(14061006)	481451.50	3774613.98	108.02093	(14061006)
481501.50	3774613.98	104.45048	(13070105)	481551.50	3774613.98	99.31759	(13070105)
479301.50	3774663.98	42.84562	(14011323)	479351.50	3774663.98	44.84020	(14011323)
479401.50	3774663.98	46.99260	(14011323)	479451.50	3774663.98	48.85226	(14011323)
479501.50	3774663.98	50.70558	(14011323)	479551.50	3774663.98	52.29253	(14011323)
479601.50	3774663.98	54.69613	(14011322)	479651.50	3774663.98	59.52412	(14011322)
479701.50	3774663.98	64.03559	(14011322)	479751.50	3774663.98	68.57723	(14011322)
479801.50	3774663.98	72.21601	(14011322)	479851.50	3774663.98	75.37106	(14011322)
479901.50	3774663.98	77.12857	(14011322)	479951.50	3774663.98	79.40150	(13070106)
480001.50	3774663.98	84.00543	(13070106)	480051.50	3774663.98	86.36285	(13070106)
480101.50	3774663.98	86.16090	(13070106)	480151.50	3774663.98	82.67943	(13070106)
480201.50	3774663.98	89.95134	(12121608)	480251.50	3774663.98	99.26465	(12121607)
480301.50	3774663.98	125.55514	(12121607)	480351.50	3774663.98	146.69749	(12121607)
480401.50	3774663.98	159.04968	(12121607)	480451.50	3774663.98	153.19888	(12121607)
480501.50	3774663.98	164.16970	(12021321)	480551.50	3774663.98	179.33028	(14022508)
480601.50	3774663.98	182.56681	(14022508)	480651.50	3774663.98	158.27258	(14022508)
480701.50	3774663.98	168.47075	(12121601)	480751.50	3774663.98	177.41532	(12022716)
480801.50	3774663.98	191.66574	(12022716)	480851.50	3774663.98	180.32017	(12022716)
480901.50	3774663.98	150.62291	(12022716)	480951.50	3774663.98	140.60619	(12092019)
481001.50	3774663.98	140.92557	(12092019)	481051.50	3774663.98	139.24073	(12092019)

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        481101.50   3774663.98      132.60897  (12052222)                481151.50
3774663.98      133.68993  (12052222)
        481201.50   3774663.98      127.79358  (12052222)                481251.50
3774663.98      124.37668  (13081722)
        481301.50   3774663.98      115.49198  (13081722)                481351.50
3774663.98      109.36647  (12082819)
        481401.50   3774663.98      105.77398  (13071323)                481451.50
3774663.98      101.72280  (13071323)
        481501.50   3774663.98      100.97131  (13071823)                481551.50
3774663.98       97.60074  (13071823)
        479301.50   3774713.98       40.98990  (14011323)                479351.50
3774713.98       42.16184  (14011323)
        479401.50   3774713.98       43.26165  (14011323)                479451.50
3774713.98       44.85584  (14011322)
        479501.50   3774713.98       48.59985  (14011322)                479551.50
3774713.98       52.04040  (14011322)
        479601.50   3774713.98       55.53905  (14011322)                479651.50
3774713.98       58.42453  (14011322)
        479701.50   3774713.98       61.00780  (14011322)                479751.50
3774713.98       62.77997  (14011322)
        479801.50   3774713.98       63.71019  (14011322)                479851.50
3774713.98       66.01291  (13070106)
        479901.50   3774713.98       69.22655  (13070106)                479951.50
3774713.98       71.20221  (13070106)
        480001.50   3774713.98       71.12277  (13070106)                480051.50
3774713.98       69.15464  (13070106)
        480101.50   3774713.98       67.64968  (12121608)                480151.50
3774713.98       76.07094  (12121608)
        480201.50   3774713.98       81.92950  (12121608)                480251.50
3774713.98      100.98571  (12121607)
        480301.50   3774713.98      119.16374  (12121607)                480351.50
3774713.98      131.57068  (12121607)
        480401.50   3774713.98      133.91544  (12121607)                480451.50
3774713.98      128.80540  (12021321)
        480501.50   3774713.98      140.28971  (12021321)                480551.50
3774713.98      152.89483  (14022508)
        480601.50   3774713.98      155.63826  (14022508)                480651.50
3774713.98      138.72815  (14022508)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                   PAGE 140
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                L0002116    , L0002117    , L0002118    , L0002119    , L0002120
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, L0002121    , L0002122    , L0002123    ,
                L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        480701.50   3774713.98      138.47674  (12121601)               480751.50
3774713.98      143.32618  (12121601)
        480801.50   3774713.98      149.36727  (12022716)               480851.50
3774713.98      155.92210  (12022716)
        480901.50   3774713.98      145.12421  (12022716)               480951.50
3774713.98      133.70808  (12071219)
        481001.50   3774713.98      143.31002  (12071219)               481051.50
3774713.98      139.96391  (12092019)
        481101.50   3774713.98      128.35277  (12092019)               481151.50
3774713.98      121.88950  (12120107)
        481201.50   3774713.98      116.57733  (12092123)               481251.50
3774713.98      117.78186  (12052222)
        481301.50   3774713.98      112.63868  (12080223)               481351.50
3774713.98      110.87517  (13081722)
        481401.50   3774713.98      105.96385  (12081223)               481451.50
3774713.98      100.34017  (12081122)
        481501.50   3774713.98       99.72091  (12081122)               479301.50
3774763.98       37.70183  (14011322)
        479351.50   3774763.98       40.63578  (14011322)               479401.50
3774763.98       43.34799  (14011322)
        479451.50   3774763.98       45.99789  (14011322)               479501.50
3774763.98       48.48703  (14011322)
        479551.50   3774763.98       50.49679  (14011322)               479601.50
3774763.98       52.30472  (14011322)
        479651.50   3774763.98       53.30695  (14011322)               479701.50
3774763.98       53.83588  (14011322)
        479751.50   3774763.98       55.96611  (13070106)               479801.50
3774763.98       58.68023  (13070106)
        479851.50   3774763.98       60.09457  (13070106)               479901.50
3774763.98       60.18258  (13070106)
        479951.50   3774763.98       59.03286  (13070106)               480001.50
3774763.98       56.20653  (13070106)
        480051.50   3774763.98       59.09734  (12121608)               480101.50
3774763.98       65.54375  (12121608)
        480151.50   3774763.98       69.99089  (12121608)               480201.50
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3774763.98 81.91110 (12121607)
480251.50 3774763.98 98.69477 (12121607) 480301.50
3774763.98 110.42411 (12121607)
480351.50 3774763.98 115.98218 (12121607) 480401.50
3774763.98 111.66904 (12121607)
480451.50 3774763.98 115.01887 (12021321) 480501.50
3774763.98 121.80302 (12021321)
480551.50 3774763.98 132.93127 (14022508) 480601.50
3774763.98 135.33835 (14022508)
480651.50 3774763.98 122.81856 (14022508) 480701.50
3774763.98 112.96289 (12121601)
480751.50 3774763.98 123.43842 (12121601) 480801.50
3774763.98 121.67206 (12121601)
480851.50 3774763.98 126.98566 (12022716) 480901.50
3774763.98 129.71809 (12022716)
480951.50 3774763.98 124.81415 (12041201) 481001.50
3774763.98 134.52467 (12071219)
481051.50 3774763.98 132.56809 (12071219) 481101.50
3774763.98 125.39222 (12092019)
481151.50 3774763.98 119.41365 (12092019) 481201.50
3774763.98 114.57801 (12120107)
481251.50 3774763.98 110.53394 (12120107) 481301.50
3774763.98 110.26965 (12092123)
481351.50 3774763.98 107.00164 (12092123) 481401.50
3774763.98 104.36150 (12080223)
481451.50 3774763.98 100.63875 (12080223) 481501.50
3774763.98 99.03908 (12081223)
479301.50 3774813.98 38.90663 (14011322) 479351.50
3774813.98 41.03120 (14011322)
479401.50 3774813.98 42.75567 (14011322) 479451.50
3774813.98 44.32103 (14011322)
479501.50 3774813.98 45.40785 (14011322) 479551.50
3774813.98 46.13586 (14011322)
479601.50 3774813.98 46.25259 (14011322) 479651.50
3774813.98 48.30044 (13070106)
479701.50 3774813.98 50.49224 (13070106) 479751.50
3774813.98 51.70699 (13070106)
479801.50 3774813.98 52.06427 (13070106) 479851.50
3774813.98 51.17336 (13070106)
479901.50 3774813.98 49.24775 (13070106) 479951.50
3774813.98 46.33016 (13070106)
480001.50 3774813.98 52.14841 (12121608) 480051.50
3774813.98 57.47014 (12121608)
480101.50 3774813.98 60.79481 (12121608) 480151.50
3774813.98 66.82729 (12121607)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 ,
L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 ,
L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 ,
L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
480201.50	3774813.98	82.35582	(12121607)	480251.50	3774813.98	93.98453	(12121607)
480301.50	3774813.98	100.47002	(12121607)	480351.50	3774813.98	100.75163	(12121607)
480401.50	3774813.98	92.52429	(12121607)	480451.50	3774813.98	103.40240	(12021321)
480501.50	3774813.98	107.09012	(12021321)	480551.50	3774813.98	117.47582	(14022508)
480601.50	3774813.98	119.38360	(14022508)	480651.50	3774813.98	109.93468	(14022508)
480701.50	3774813.98	92.40998	(13102821)	480751.50	3774813.98	105.27084	(12121601)
480801.50	3774813.98	109.04046	(12121601)	480851.50	3774813.98	107.34611	(12121601)
480901.50	3774813.98	109.44915	(12022716)	480951.50	3774813.98	114.08116	(12041201)
481001.50	3774813.98	124.19486	(12080105)	481051.50	3774813.98	127.18010	(12071219)
481101.50	3774813.98	123.96471	(12071219)	481151.50	3774813.98	116.40748	(12111417)
481201.50	3774813.98	110.94355	(12092019)	481251.50	3774813.98	106.26148	(12071222)
481301.50	3774813.98	103.62724	(12120107)	481351.50	3774813.98	102.53017	(12092123)
481401.50	3774813.98	102.60763	(13090224)	481451.50	3774813.98	100.00986	(12081522)
481501.50	3774813.98	96.55465	(13090905)	479301.50	3774863.98	38.02752	(14011322)

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        479351.50   3774863.98       39.19780  (14011322)               479401.50
3774863.98       39.87659  (14011322)
        479451.50   3774863.98       40.35592  (14011322)               479501.50
3774863.98       40.25413  (14011322)
        479551.50   3774863.98       42.39121  (13070106)               479601.50
3774863.98       44.11841  (13070106)
        479651.50   3774863.98       45.16821  (13070106)               479701.50
3774863.98       45.55817  (13070106)
        479751.50   3774863.98       44.97154  (13070106)               479801.50
3774863.98       43.66846  (13070106)
        479851.50   3774863.98       41.43011  (13070106)               479901.50
3774863.98       41.18983  (12121608)
        479951.50   3774863.98       46.64010  (12121608)               480001.50
3774863.98       50.97072  (12121608)
        480051.50   3774863.98       53.65872  (12121608)               480101.50
3774863.98       57.22558  (13021806)
        480151.50   3774863.98       68.98397  (12121607)               480201.50
3774863.98       80.39306  (12121607)
        480251.50   3774863.98       87.76486  (12121607)               480301.50
3774863.98       90.07629  (12121607)
        480351.50   3774863.98       86.59013  (12121607)               480401.50
3774863.98       85.24532  (12021321)
        480451.50   3774863.98       93.52569  (12021321)               480501.50
3774863.98       95.11846  (12021321)
        480551.50   3774863.98      105.05025  (14022508)               480601.50
3774863.98      106.70682  (14022508)
        480651.50   3774863.98       99.26518  (14022508)               480701.50
3774863.98       89.08487  (13102821)
        480751.50   3774863.98       91.39091  (12121601)               480801.50
3774863.98       96.64924  (12121601)
        480851.50   3774863.98      100.46121  (12121601)               480901.50
3774863.98       99.02986  (12031723)
        480951.50   3774863.98      112.78062  (12031723)               481001.50
3774863.98      112.14591  (12041201)
        481051.50   3774863.98      114.88963  (12080105)               481101.50
3774863.98      117.53997  (12071219)
        481151.50   3774863.98      115.68473  (12071219)               481201.50
3774863.98      107.38853  (12111417)
        481251.50   3774863.98      103.12043  (12092019)               481301.50
3774863.98      101.58199  (12071222)
        481351.50   3774863.98      103.16749  (12071222)               481401.50
3774863.98       99.66398  (12071222)
        481451.50   3774863.98       97.98146  (13090224)               481501.50
3774863.98       97.81823  (13090224)
        479301.50   3774913.98       35.36054  (14011322)               479351.50
3774913.98       35.63564  (14011322)
        479401.50   3774913.98       35.51028  (13070106)               479451.50
3774913.98       37.52331  (13070106)
        479501.50   3774913.98       39.00111  (13070106)               479551.50
3774913.98       40.03594  (13070106)
        479601.50   3774913.98       40.33818  (13070106)               479651.50
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3774913.98       39.96876  (13070106)
🡅 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                         ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                  PAGE 142
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        479701.50   3774913.98       39.02382  (13070106)                479751.50
3774913.98       37.32287  (13070106)
        479801.50   3774913.98       35.16704  (13070106)                479851.50
3774913.98       37.43814  (12121608)
        479901.50   3774913.98       42.01304  (12121608)                479951.50
3774913.98       45.61385  (12121608)
        480001.50   3774913.98       47.85826  (12121608)                480051.50
3774913.98       49.59050  (13021806)
        480101.50   3774913.98       57.91788  (12121607)                480151.50
3774913.98       69.03566  (12121607)
        480201.50   3774913.98       76.74722  (12121607)                480251.50
3774913.98       80.68045  (12121607)
        480301.50   3774913.98       79.76561  (12121607)                480351.50
3774913.98       73.79085  (12121607)
        480401.50   3774913.98       79.05017  (12021321)                480451.50
3774913.98       85.05716  (12021321)
        480501.50   3774913.98       85.55567  (14022508)                480551.50
3774913.98       94.83965  (14022508)
        480601.50   3774913.98       96.39434  (14022508)                480651.50
3774913.98       90.28629  (14022508)
        480701.50   3774913.98       77.22344  (14022508)                480751.50
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3774913.98 83.39671 (13102821)
480801.50 3774913.98 89.60792 (12121601) 480851.50
3774913.98 92.47521 (12121601)
480901.50 3774913.98 95.78486 (12121601) 480951.50
3774913.98 101.03824 (12031723)
481001.50 3774913.98 103.06810 (12031723) 481051.50
3774913.98 104.20251 (12041201)
481101.50 3774913.98 108.41952 (12080105) 481151.50
3774913.98 107.84690 (12071219)
481201.50 3774913.98 108.02581 (12071219) 481251.50
3774913.98 101.53166 (12111417)
481301.50 3774913.98 97.82582 (14040821) 481351.50
3774913.98 96.60049 (13060705)
481401.50 3774913.98 98.74415 (12071222) 481451.50
3774913.98 98.72386 (12071222)
481501.50 3774913.98 93.51513 (12071222) 479301.50
3774963.98 31.81169 (13070106)
479351.50 3774963.98 33.53311 (13070106) 479401.50
3774963.98 34.80694 (13070106)
479451.50 3774963.98 35.73797 (13070106) 479501.50
3774963.98 36.06842 (13070106)
479551.50 3774963.98 35.94047 (13070106) 479601.50
3774963.98 35.16050 (13070106)
479651.50 3774963.98 33.85354 (13070106) 479701.50
3774963.98 32.16165 (13070106)
479751.50 3774963.98 30.02848 (13070106) 479801.50
3774963.98 34.28103 (12121608)
479851.50 3774963.98 38.15251 (12121608) 479901.50
3774963.98 41.17741 (12121608)
479951.50 3774963.98 43.03770 (12121608) 480001.50
3774963.98 43.53080 (12121608)
480051.50 3774963.98 49.80177 (13021806) 480101.50
3774963.98 59.21000 (12121607)
480151.50 3774963.98 67.39505 (12121607) 480201.50
3774963.98 72.09204 (12121607)
480251.50 3774963.98 73.19410 (12121607) 480301.50
3774963.98 69.90382 (12121607)
480351.50 3774963.98 64.12718 (12021321) 480401.50
3774963.98 73.45373 (12021321)
480451.50 3774963.98 77.72924 (12021321) 480501.50
3774963.98 77.95640 (14022508)
480551.50 3774963.98 86.17958 (14022508) 480601.50
3774963.98 87.80301 (14022508)
480651.50 3774963.98 82.77236 (14022508) 480701.50
3774963.98 72.15493 (14022508)
480751.50 3774963.98 82.56693 (13102821) 480801.50
3774963.98 78.01500 (12121601)
480851.50 3774963.98 87.47703 (12121601) 480901.50
3774963.98 102.64927 (12121601)
480951.50 3774963.98 98.26097 (12041203) 481001.50
3774963.98 97.20638 (12031723)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0002111 , L0002112 , L0002113 , L0002114 , L0002115 ,
L0002116 , L0002117 , L0002118 , L0002119 , L0002120 , L0002121 , L0002122 , L0002123 ,
L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 , L0002131 ,
L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481451.50	3774963.98	94.50329	(13060705)	480801.50	3775013.98	80.52604	(13102821)
480851.50	3775013.98	92.97563	(13102821)	480901.50	3775013.98	97.38723	(12121601)
480951.50	3775013.98	96.19236	(12121601)	481001.50	3775013.98	93.99723	(12041203)
481051.50	3775013.98	91.66993	(12031723)	481101.50	3775013.98	95.59937	(12081701)
481151.50	3775013.98	97.46443	(12081701)	481201.50	3775013.98	96.07706	(12080105)
481251.50	3775013.98	95.79829	(12071219)	481301.50	3775013.98	96.57510	(12071219)
481351.50	3775013.98	93.67843	(14040821)	481401.50	3775013.98	95.49221	(14040821)

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        481451.50   3775013.98       93.96852  (12071323)               480801.50
3775063.98       82.59695  (13102821)
        480851.50   3775063.98       90.46225  (13102821)               480901.50
3775063.98       91.82694  (12011117)
        480951.50   3775063.98       93.85681  (12121601)               481001.50
3775063.98       93.24048  (12041203)
        481051.50   3775063.98       90.09054  (12041203)               481101.50
3775063.98       86.18843  (12031723)
        481151.50   3775063.98       92.53317  (12081701)               481201.50
3775063.98       95.39080  (12081701)
        481251.50   3775063.98       93.34995  (12081701)               481301.50
3775063.98       91.33415  (12091001)
        481351.50   3775063.98       95.11982  (12091001)               481401.50
3775063.98       93.66584  (12083024)
        481451.50   3775063.98       91.85433  (14040821)               480801.50
3775113.98       74.60832  (13102821)
        480851.50   3775113.98       86.04092  (13102821)               480901.50
3775113.98       90.37160  (12011117)
        480951.50   3775113.98       88.82472  (12121601)               481001.50
3775113.98       89.06058  (12041203)
        481051.50   3775113.98       90.38766  (12041203)               481101.50
3775113.98       85.75617  (12121724)
        481151.50   3775113.98       83.56882  (12081701)               481201.50
3775113.98       92.30211  (12081701)
        481251.50   3775113.98       95.13038  (12081701)               481301.50
3775113.98       91.18189  (13020223)
        481351.50   3775113.98       90.67009  (12091001)               481401.50
3775113.98       93.97829  (12091001)
        481451.50   3775113.98       90.95961  (12083024)               480801.50
3775163.98       66.68589  (12121508)
        480851.50   3775163.98       79.57223  (13102821)               480901.50
3775163.98       86.76257  (13102821)
        480951.50   3775163.98       87.31658  (12011117)               481001.50
3775163.98       87.00462  (13070304)
        481051.50   3775163.98       88.09745  (12041203)               481101.50
3775163.98       86.71953  (12041203)
        481151.50   3775163.98       87.66480  (12121724)               481201.50
3775163.98       86.21534  (13030404)
        481251.50   3775163.98       91.91030  (13020223)               481301.50
3775163.98       93.49739  (13020223)
        481351.50   3775163.98       89.86472  (12061305)               481401.50
3775163.98       89.77230  (13070402)
        481451.50   3775163.98       91.43355  (12091001)               480801.50
3775213.98       68.00821  (12121508)
        480851.50   3775213.98       73.75577  (13102821)               480901.50
3775213.98       82.91827  (15090206)
        480951.50   3775213.98       85.62029  (12011117)               481001.50
3775213.98       85.23548  (13070304)
        481051.50   3775213.98       84.13558  (13070304)               481101.50
3775213.98       85.97733  (12041203)
        481151.50   3775213.98       87.26209  (12121724)               481201.50
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3775213.98   86.08300 (12121724)
        481251.50   3775213.98   88.65361 (13030404)   481301.50
3775213.98   90.39677 (13020223)
        481351.50   3775213.98   90.67577 (13020223)   481401.50
3775213.98   89.74881 (12061305)
        481451.50   3775213.98   89.73041 (13070402)   480801.50
3775263.98   67.45771 (12121508)
        480851.50   3775263.98   72.84419 (12121508)   480901.50
3775263.98   78.30633 (15090206)
        480951.50   3775263.98   83.54174 (15090206)   481001.50
3775263.98   82.44933 (12011117)
        481051.50   3775263.98   84.99018 (13070304)   481101.50
3775263.98   83.08218 (12041203)
        481151.50   3775263.98   84.12655 (12121724)   481201.50
3775263.98   88.01013 (12121724)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0002111   , L0002112
, L0002113   , L0002114   , L0002115   ,
                  L0002116   , L0002117   , L0002118   , L0002119   , L0002120
, L0002121   , L0002122   , L0002123   ,
                  L0002124   , L0002125   , L0002126   , L0002127   , L0002128
, L0002129   , L0002130   , L0002131   ,
                  L0002132   , L0002133   , L0002134   , L0002135   , L0002136
, L0002137   , L0002138   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        481251.50   3775263.98   84.35100 (12120619)   481301.50
3775263.98   87.77064 (13030404)
        481351.50   3775263.98   89.21323 (13020223)   481401.50
3775263.98   89.02856 (13041822)
        481451.50   3775263.98   87.73807 (12061305)   480801.50
3775313.98   65.46636 (12051104)
        480851.50   3775313.98   70.67991 (12121508)   480901.50

3775313.98 74.66684 (14061903)
480951.50 3775313.98 80.48965 (15090206) 481001.50
3775313.98 82.49548 (15090206)
481051.50 3775313.98 83.50231 (13070304) 481101.50
3775313.98 83.03047 (13070304)
481151.50 3775313.98 84.79437 (13090906) 481201.50
3775313.98 85.34652 (12121724)
481251.50 3775313.98 86.71317 (12121724) 481301.50
3775313.98 85.46347 (12120619)
481351.50 3775313.98 89.38919 (13072205) 481401.50
3775313.98 87.70262 (13072205)
480801.50 3775363.98 65.70966 (12051104) 480851.50
3775363.98 70.99504 (12051104)
480901.50 3775363.98 73.00761 (14061903) 480951.50
3775363.98 78.92864 (12091722)
481001.50 3775363.98 80.79081 (12091722) 481051.50
3775363.98 79.86612 (13070304)
481101.50 3775363.98 82.76619 (13070304) 481151.50
3775363.98 82.13306 (12122323)
481201.50 3775363.98 84.27125 (13090906) 481251.50
3775363.98 85.02614 (12121724)
481301.50 3775363.98 84.28442 (12121724) 481351.50
3775363.98 85.95086 (12120619)
481401.50 3775363.98 88.49272 (13072205) 480801.50
3775413.98 66.31816 (13020301)
480851.50 3775413.98 70.26526 (12051104) 480901.50
3775413.98 73.66760 (13070104)
480951.50 3775413.98 77.67305 (14061903) 481001.50
3775413.98 81.93152 (12091722)
481051.50 3775413.98 79.95043 (12091722) 481101.50
3775413.98 80.23074 (13070304)
481151.50 3775413.98 81.68632 (13040703) 481201.50
3775413.98 84.32253 (13090906)
481251.50 3775413.98 84.22829 (13090906) 481301.50
3775413.98 82.87527 (12121724)
481351.50 3775413.98 82.69928 (13072906) 481401.50
3775413.98 85.57103 (12080203)
480801.50 3775463.98 66.07536 (13020301) 480851.50
3775463.98 71.29446 (12051104)
480901.50 3775463.98 74.55505 (13070104) 480951.50
3775463.98 76.86145 (14061903)
481001.50 3775463.98 79.30115 (12091722) 481051.50
3775463.98 79.95912 (12091722)
481101.50 3775463.98 77.09516 (12062624) 481151.50
3775463.98 79.76247 (13040703)
481201.50 3775463.98 81.74576 (12122323) 481251.50
3775463.98 84.10701 (13090906)
481301.50 3775463.98 80.66989 (13090906) 481351.50
3775463.98 80.09732 (12121724)
481401.50 3775463.98 81.87945 (13072906) 480801.50
3775513.98 66.46427 (13020301)

```
        480851.50   3775513.98       70.83586  (13020301)               480901.50
3775513.98       75.98859  (13070104)
        480951.50   3775513.98       74.79003  (13070104)               481001.50
3775513.98       78.44763  (14061903)
        481051.50   3775513.98       80.05521  (12091722)               481101.50
3775513.98       77.94469  (12062624)
        481151.50   3775513.98       77.72596  (13040703)               481201.50
3775513.98       80.55086  (13040703)
        481251.50   3775513.98       82.10387  (12072103)               481301.50
3775513.98       81.50330  (12072103)
        481351.50   3775513.98       78.50127  (14021007)               481401.50
3775513.98       78.48251  (12120707)
        480801.50   3775563.98       68.53746  (13020301)               480851.50
3775563.98       71.38852  (13020301)
        480901.50   3775563.98       73.89559  (13070104)               480951.50
3775563.98       75.04024  (13070104)
        481001.50   3775563.98       76.24281  (12051523)               481051.50
3775563.98       77.85101  (12091722)
        481101.50   3775563.98       78.66393  (12062624)               481151.50
3775563.98       77.24514  (12081106)
        481201.50   3775563.98       78.82137  (13040703)               481251.50
3775563.98       80.30322  (12080704)
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                          ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                   PAGE 145
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0002111    , L0002112
, L0002113    , L0002114    , L0002115    ,
                  L0002116    , L0002117    , L0002118    , L0002119    , L0002120
, L0002121    , L0002122    , L0002123    ,
                  L0002124    , L0002125    , L0002126    , L0002127    , L0002128
, L0002129    , L0002130    , L0002131    ,
                  L0002132    , L0002133    , L0002134    , L0002135    , L0002136
, L0002137    , L0002138    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
```

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        481301.50   3775563.98       81.15397  (12072103)              481351.50
3775563.98       79.98793  (12072103)
        481401.50   3775563.98       79.82062  (12120707)              479332.46
3774240.22       44.41778  (14011308)
        479382.46   3774240.22       46.80165  (14011308)              479432.46
3774240.22       49.63374  (14011308)
        479482.46   3774240.22       52.44716  (14011308)              479532.46
3774240.22       55.94870  (12122021)
        479582.46   3774240.22       59.72865  (12122021)              479632.46
3774240.22       64.08310  (12122021)
        479682.46   3774240.22       68.99564  (12122021)              479732.46
3774240.22       74.14729  (12122021)
        479782.46   3774240.22       80.48697  (12122021)              479832.46
3774240.22       87.24462  (12111302)
        479882.46   3774240.22       96.56587  (12111302)              479932.46
3774240.22      107.13214  (12111302)
        479332.46   3774290.22       43.21080  (14011308)              479382.46
3774290.22       45.98686  (14011308)
        479432.46   3774290.22       48.77796  (14011308)              479482.46
3774290.22       51.87734  (14011308)
        479532.46   3774290.22       55.62083  (14011308)              479582.46
3774290.22       59.46413  (14011308)
        479632.46   3774290.22       64.21141  (12110208)              479682.46
3774290.22       70.05242  (12110208)
        479732.46   3774290.22       76.67821  (12110208)              479782.46
3774290.22       84.28880  (12110208)
        479832.46   3774290.22       92.95102  (12110208)              479882.46
3774290.22      102.92785  (12110208)
        479932.46   3774290.22      114.58038  (12110208)              479332.46
3774340.22       45.25288  (12122006)
        479382.46   3774340.22       48.01984  (12122006)              479432.46
3774340.22       50.73738  (12122006)
        479482.46   3774340.22       53.89422  (12122006)              479532.46
3774340.22       57.47229  (12122006)
        479582.46   3774340.22       61.21420  (12122006)              479632.46
3774340.22       65.90988  (12122006)
        479682.46   3774340.22       70.73354  (12122006)              479732.46
3774340.22       76.71278  (12122006)
        479782.46   3774340.22       82.95538  (12122006)              479832.46
3774340.22       90.29903  (12122006)
        479882.46   3774340.22       99.32134  (12122006)              479932.46
3774340.22      113.28474  (12110208)
        479332.46   3774390.22       45.36916  (12030223)              479382.46
3774390.22       47.94068  (12030223)
        479432.46   3774390.22       50.57905  (12030223)              479482.46
3774390.22       53.83110  (12030223)
        479532.46   3774390.22       57.06345  (12030223)              479582.46
3774390.22       60.96055  (12030223)
        479632.46   3774390.22       65.09941  (12030223)              479682.46
3774390.22       70.12124  (12030223)
        479732.46   3774390.22       75.28193  (12030223)              479782.46
```

3774390.22   81.13563 (12030223)
        479832.46   3774390.22   88.20412 (12030223)   479882.46
3774390.22   96.39812 (12030223)
        479932.46   3774390.22   106.43688 (14022723)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD (43848
HRS) RESULTS ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
             **

                      NETWORK
GROUP ID   AVERAGE CONC   RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG) OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - - -

ONSITERU 1ST HIGHEST VALUE IS   101.92839 AT (480551.50, 3774413.98,   361.05,
  361.05,   0.00) DC
         2ND HIGHEST VALUE IS   100.98735 AT (480501.50, 3774413.98,   360.39,
  360.39,   0.00) DC
         3RD HIGHEST VALUE IS   99.33180 AT (480601.50, 3774413.98,   362.00,
  362.00,   0.00) DC
         4TH HIGHEST VALUE IS   92.32009 AT (480651.50, 3774413.98,   362.00,
  362.00,   0.00) DC
         5TH HIGHEST VALUE IS   90.48056 AT (480451.50, 3774413.98,   360.00,
  360.00,   0.00) DC
         6TH HIGHEST VALUE IS   74.34073 AT (480701.50, 3774413.98,   363.00,
  363.00,   0.00) DC
         7TH HIGHEST VALUE IS   62.45562 AT (480401.50, 3774413.98,   359.30,
  359.30,   0.00) DC
         8TH HIGHEST VALUE IS   56.52832 AT (480415.97, 3774200.25,   360.00,
  360.00,   0.00) DC
         9TH HIGHEST VALUE IS   48.22031 AT (480441.34, 3774196.20,   360.00,
  360.00,   0.00) DC
        10TH HIGHEST VALUE IS   48.03402 AT (480386.35, 3774201.62,   359.55,
  359.55,   0.00) DC

OFFSITE   1ST HIGHEST VALUE IS   22.22874 AT (480441.34, 3774196.20,   360.00,
  360.00,   0.00) DC
         2ND HIGHEST VALUE IS   17.92949 AT (480415.97, 3774200.25,   360.00,

```
  360.00,    0.00)  DC
         3RD HIGHEST VALUE IS      16.84301 AT (  480751.50,  3774413.98,   363.00,
  363.00,    0.00)  DC
         4TH HIGHEST VALUE IS      15.00341 AT (  480701.50,  3774413.98,   363.00,
  363.00,    0.00)  DC
         5TH HIGHEST VALUE IS      14.16160 AT (  480801.50,  3774413.98,   364.00,
  364.00,    0.00)  DC
         6TH HIGHEST VALUE IS      11.84306 AT (  480651.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
         7TH HIGHEST VALUE IS      11.73464 AT (  480851.50,  3774413.98,   364.00,
  364.00,    0.00)  DC
         8TH HIGHEST VALUE IS      10.91153 AT (  480386.35,  3774201.62,   359.55,
  359.55,    0.00)  DC
         9TH HIGHEST VALUE IS      10.25454 AT (  480901.50,  3774413.98,   364.72,
  364.72,    0.00)  DC
        10TH HIGHEST VALUE IS      10.17741 AT (  480751.50,  3774463.98,   363.00,
  363.00,    0.00)  DC

IDLE      1ST HIGHEST VALUE IS     138.30205 AT (  480551.50,  3774413.98,   361.05,
  361.05,    0.00)  DC
         2ND HIGHEST VALUE IS     131.57810 AT (  480601.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
         3RD HIGHEST VALUE IS     104.11537 AT (  480501.50,  3774413.98,   360.39,
  360.39,    0.00)  DC
         4TH HIGHEST VALUE IS      88.87273 AT (  480651.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
         5TH HIGHEST VALUE IS      58.62516 AT (  480551.50,  3774463.98,   361.05,
  361.05,    0.00)  DC
         6TH HIGHEST VALUE IS      58.46808 AT (  480451.50,  3774413.98,   360.00,
  360.00,    0.00)  DC
         7TH HIGHEST VALUE IS      56.70993 AT (  480601.50,  3774463.98,   362.00,
  362.00,    0.00)  DC
         8TH HIGHEST VALUE IS      50.62808 AT (  480701.50,  3774413.98,   363.00,
  363.00,    0.00)  DC
         9TH HIGHEST VALUE IS      49.87421 AT (  480501.50,  3774463.98,   360.39,
  360.39,    0.00)  DC
        10TH HIGHEST VALUE IS      45.72673 AT (  480651.50,  3774463.98,   362.36,
  362.36,    0.00)  DC

EQUIP     1ST HIGHEST VALUE IS     118.86042 AT (  480551.50,  3774413.98,   361.05,
  361.05,    0.00)  DC
         2ND HIGHEST VALUE IS     112.85645 AT (  480601.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
         3RD HIGHEST VALUE IS      92.05779 AT (  480501.50,  3774413.98,   360.39,
  360.39,    0.00)  DC
         4TH HIGHEST VALUE IS      78.70740 AT (  480651.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
         5TH HIGHEST VALUE IS      54.96690 AT (  480451.50,  3774413.98,   360.00,
  360.00,    0.00)  DC
         6TH HIGHEST VALUE IS      53.21047 AT (  480551.50,  3774463.98,   361.05,
  361.05,    0.00)  DC
```

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
GEN	1ST HIGHEST VALUE IS	0.04507 AT (480601.50, 3774413.98, 362.00, 362.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.04255 AT (480651.50, 3774413.98, 362.00, 362.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.03501 AT (480701.50, 3774413.98, 363.00, 363.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.03150 AT (480551.50, 3774413.98, 361.05, 361.05, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.02516 AT (480751.50, 3774413.98, 363.00, 363.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.02068 AT (480801.50, 3774413.98, 364.00, 364.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.01843 AT (480651.50, 3774463.98, 362.36, 362.36, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.01657 AT (480601.50, 3774463.98, 362.00, 362.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.01644 AT (480851.50, 3774413.98, 364.00, 364.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.01642 AT (480701.50, 3774463.98, 363.00, 363.00, 0.00)	DC	

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ALL       1ST HIGHEST VALUE IS     367.38032 AT (  480551.50,  3774413.98,   361.05,
  361.05,    0.00)  DC
          2ND HIGHEST VALUE IS     353.54625 AT (  480601.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
          3RD HIGHEST VALUE IS     304.27509 AT (  480501.50,  3774413.98,   360.39,
  360.39,    0.00)  DC
          4TH HIGHEST VALUE IS     271.78582 AT (  480651.50,  3774413.98,   362.00,
  362.00,    0.00)  DC
          5TH HIGHEST VALUE IS     210.03584 AT (  480451.50,  3774413.98,   360.00,
  360.00,    0.00)  DC
          6TH HIGHEST VALUE IS     187.07206 AT (  480701.50,  3774413.98,   363.00,
  363.00,    0.00)  DC
          7TH HIGHEST VALUE IS     165.47180 AT (  480551.50,  3774463.98,   361.05,
  361.05,    0.00)  DC
          8TH HIGHEST VALUE IS     161.13560 AT (  480601.50,  3774463.98,   362.00,
  362.00,    0.00)  DC
          9TH HIGHEST VALUE IS     147.78174 AT (  480501.50,  3774463.98,   360.39,
  360.39,    0.00)  DC
         10TH HIGHEST VALUE IS     137.81075 AT (  480651.50,  3774463.98,   362.36,
  362.36,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                  PAGE 148
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
               **

                                                      DATE
                                          NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

ONSITERU HIGH   1ST HIGH VALUE IS     312.42533  ON 12022716: AT (  480501.50,
3774413.98,   360.39,   360.39,    0.00)  DC
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OFFSITE  HIGH   1ST HIGH VALUE IS      64.07247  ON 16123116: AT (  480441.34,
3774196.20,   360.00,   360.00,    0.00)  DC

IDLE     HIGH   1ST HIGH VALUE IS     517.78603  ON 12022716: AT (  480601.50,
3774413.98,   362.00,   362.00,    0.00)  DC

EQUIP    HIGH   1ST HIGH VALUE IS     456.35057  ON 12022716: AT (  480601.50,
3774413.98,   362.00,   362.00,    0.00)  DC

GEN      HIGH   1ST HIGH VALUE IS      48.00043  ON 16050213: AT (  480441.34,
3774196.20,   360.00,   360.00,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS    1259.13135  ON 12022716: AT (  480601.50,
3774413.98,   362.00,   362.00,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** Highland, Meines&Palm OP
                        ***        04/13/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:46:25

                                  PAGE 149
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of          388 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          191 Calm Hours Identified

 A Total of          197 Missing Hours Identified (  0.45 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320     439        PPARM: Input Parameter May Be Out-of-Range for Parameter
       VS
 ME W186     589       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
```

```
    0.50
ME W187     589       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
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Appendix B1

Biological Resources Assessment

December 13, 2022

KIMLEY-HORN
Contact: Kari Cano
3880 Lemon Street, Suite 420
Riverside, California 92501

SUBJECT: Habitat Assessment for the Proposed Project Located on the Northwest Corner of the Intersection of Meines Street and Palm Avenue in the City of Highland, San Bernardino County, California

Introduction

This report contains the findings of ELMT Consulting's (ELMT) habitat assessment for the proposed Project (project site or site) located on the northwest corner of the intersection of Meines Street and Palm Avenue in the City of Highland, San Bernardino County, California. The habitat assessment was conducted by biologist Rachael A. Lyons on September 20, 2022 to document baseline conditions and assess the potential for special status[1] plant and wildlife species to occur within the project site that could pose a constraint to implementation of the proposed project.

Special attention was given to the suitability of the project site to support burrowing owl (*Athene cunicularia*) and San Bernardino Merriam's kangaroo rat (*Dipodomys merriami parvus*), and other special-status plant and wildlife species identified by the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB), and other electronic databases as potentially occurring in the general vicinity of the project. Additionally, the report also addresses resources protected under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (FGC), federal Clean Water Act (CWA) regulated by the United States Army Corps of Engineers (Corps) and Regional Water Quality Control Board (Regional Board) respectively, and Section 1602 of the FGC administered by CDFW.

Project Location

The project site is generally located east of Interstate 215, north Interstate 10, and south and west of State Route 210 in the City of Highland, San Bernardino County, California. The site is depicted on the Redlands quadrangle of the United States Geological Survey's (USGS) 7.5-minute map series within Section 5, Township 1 South, Range 3 West. Specifically, the site is bounded to the east by Palm Avenue, to the south by Meines Street, and lies east of Central Avenue and south of 9th Street within Assessor Parcel Numbers (APN) 1192-601-01, -05, -07, -09; 621-02, -03, -04, -05, -06, -07, -08, -09, -10, -20, -21, -22, and -23. Refer to Exhibits 1-3 in Attachment A.

1 As used in this report, "special-status" refers to plant and wildlife species that are federally and State listed, proposed, or candidates; plant species that have been designated with a California Native Plant Society Rare Plant Rank; wildlife species that are designated by the CDFW as fully protected, species of special concern, or watch list species; and specially protected natural vegetation communities as designated by the CDFW.

Methodology

A literature review and records search were conducted to determine which special-status biological resources have the potential to occur on or within the general vicinity of the project site. In addition to the literature review, a general habitat assessment or field investigation of the project site was conducted to document existing conditions and assess the potential for special-status biological resources to occur within the project site.

Literature Review

Prior to conducting the field investigation, a literature review and records search was conducted for special-status biological resources potentially occurring on or within the vicinity of the project site. Previously recorded occurrences of special-status plant and wildlife species and their proximity to the project site was determined through a query of the CDFW's QuickView Tool in the Biogeographic Information and Observation System (BIOS), CNDDB Rarefind 5, the California Native Plant Society's (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants of California, Calflora Database, compendia of special-status species published by CDFW, and the United States Fish and Wildlife Service (USFWS) species listings.

All available reports, survey results, and literature detailing the biological resources previously observed on or within the vicinity of the project site was reviewed to understand existing site conditions and note the extent of any disturbances that have occurred within the project site that would otherwise limit the distribution of special-status biological resources. Standard field guides and texts were reviewed for specific habitat requirements of special-status and non-special-status biological resources, as well as the following resources:

- Google Earth Pro historic aerial imagery (1985-2021);
- United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS), Soil Survey[2];
- USFWS Critical Habitat designations for Threatened and Endangered Species; and
- USFWS Endangered Species Profiles.

The literature review provided a baseline from which to inventory the biological resources potentially occurring within the project site. The CNDDB database was used, in conjunction with ArcGIS software, to locate the nearest recorded occurrences of special-status species and determine the distance from the project site.

Field Investigation

Following the literature review, biologist Rachael A. Lyons inventoried and evaluated the condition of the habitat within the project site on September 20, 2022. Plant communities and land cover types identified on aerial photographs during the literature review were verified by walking meandering transects throughout the project site. In addition, aerial photography was reviewed prior to the site investigation to

2 A soil series is defined as a group of soils with similar profiles developed from similar parent materials under comparable climatic and vegetation conditions. These profiles include major horizons with similar thickness, arrangement, and other important characteristics, which may promote favorable conditions for certain biological resources.

locate potential natural corridors and linkages that may support the movement of wildlife through the area. These areas identified on aerial photography were then walked during the field investigation.

Soil Series Assessment

On-site and adjoining soils were researched prior to the field investigation using the USDA NRCS Soil Survey for San Bernardino County, California. In addition, a review of the local geological conditions and historical aerial photographs was conducted to assess the ecological changes that the project site has undergone.

Plant Communities

Plant communities were mapped using 7.5-minute USGS topographic base maps and aerial photography. The plant communities were classified in accordance with Sawyer, Keeler-Wolf and Evens (2009), delineated on an aerial photograph, and then digitized into GIS Arcview. The Arcview application was used to compute the area of each plant community and/or land cover type in acres.

Plants

Common plant species observed during the field investigation were identified by visual characteristics and morphology in the field and recorded in a field notebook. Unusual and less-familiar plants were photographed in the field and identified in the laboratory using taxonomic guides. Taxonomic nomenclature used in this study follows the 2012 Jepson Manual (Hickman 2012). In this report, scientific names are provided immediately following common names of plant species (first reference only).

Wildlife

Wildlife species detected during the field investigation by sight, calls, tracks, scat, or other sign were recorded during surveys in a field notebook. Field guides used to assist with identification of wildlife species during the survey included The Sibley Field Guide to the Birds of Western North America (Sibley 2003), A Field Guide to Western Reptiles and Amphibians (Stebbins 2003), and A Field Guide to Mammals of North America (Reid 2006). Although common names of wildlife species are well standardized, scientific names are provided immediately following common names in this report (first reference only).

Jurisdictional Drainages and Wetlands

Aerial photography was reviewed prior to conducting a field investigation in order to locate and inspect any potential natural drainage features, ponded areas, or water bodies that may fall under the jurisdiction of the United States Army Corps of Engineers (Corps), Regional Water Quality Control Board (Regional Board), or CDFW. In general, surface drainage features indicated as blue-line streams on USGS maps that are observed or expected to exhibit evidence of flow are considered potential riparian/riverine habitat and are also subject to state and federal regulatory jurisdiction. In addition, ELMT reviewed jurisdictional waters information through examining historical aerial photographs to gain an understanding of the impact of land-use on natural drainage patterns in the area. The USFWS National Wetland Inventory (NWI) and Environmental Protection Agency (EPA) Water Program “My Waters” data layers were also reviewed to determine whether any hydrologic features and wetland areas have been documented on or within the vicinity of the project site.

Existing Site Conditions

The proposed project site is located in Highland, San Bernadino County, California, north of the Santa Ana River. The site is bounded by Palm Avenue to the east, Meines Street to the south, residential development to the west, and City Creek, which has been channelized, to the north. The majority of the site supports commercial development associated with the various manufacturing companies which exist on the site. Additionally, some parcels also support institutional and residential development and vacant, undeveloped land that have been heavily disturbed.

Topography and Soils

On-site elevation ranges from approximately 1,180 to 1,196 feet above mean sea level and the site generally slopes from east to west. On-site topography is relatively flat with no noticeable topographic relief. Based on the NRCS USDA Web Soil Survey, approximately 85.2 percent of the project site is historically underlain by Tujunga gravelly loamy sand (0 to 9 percent slopes), and the remaining 14.8 percent of the site is underlain by Psamments, Fluvents and Frequently flooded soils (0 to 5 percent slopes). Refer to Exhibit 4, *Soils*, in Attachment A. The majority of the site has been mechanically disturbed and compacted from grading activities and on-site and surrounding development.

Vegetation

The project site supports two (2) land cover types that would be classified as developed and disturbed (refer to Exhibit 5, *Vegetation*, in Attachment A). Additionally, this site does not support any natural plant communities. Refer to Attachment B, *Site Photographs*, for representative site photographs.

Disturbed

Disturbed areas on-site include unpaved areas that are unvegetated or minimally vegetated and do not otherwise support a recognizable plant community. Most of the disturbed areas on site occur in the form of graded or compressed soil. Due to anthropogenic disturbance, portions of the site have weathered and support weedy/early successional species that are adapted to growing in such conditions. Common plant species observed in the disturbed areas of the project site include telegraph weed (*Heterotheca grandiflora*), and Bermuda grass (*Cynodon dactylon*).

Developed

Developed areas generally refer to paved or otherwise impervious surfaces, ornamental landscaping, and all buildings/structures. Onsite development includes the paved and gravel driveways and access areas for the existing commercial, residential, and institutional developments on site, as well as the structures which support these operations. These areas are generally unvegetated or support minimal non-native weedy species. The parcel which contains residential development also supports ornamental landscaping. Common ornamental plant species observed here include Mexican fan palm (*Washingtonia robusta*), boxwood (*Buxus* sp.), Mediterranean cypress (*Cupressus sempervirens*), pine (*Pinus* sp.), wintercreeper (*Euonymus fortunei*), juniper (*Juniperus* sp.), and Douglas iris (*Iris douglasiana*).

Wildlife

Plant communities provide foraging habitat, nesting/denning sites, and shelter from adverse weather or predation. This section provides a discussion of those wildlife species that were observed or are expected to occur within the project site. The discussion is to be used as a general reference and is limited by the season, time of day, and weather conditions in which the field investigation was conducted. Wildlife detections were based on calls, songs, scat, tracks, burrows, and direct observation. The project site provides some suitable habitat for wildlife species, especially those adapted to a high degree of anthropogenic disturbances and development.

Fish

No fish or hydrogeomorphic features (e.g., creeks, ponds, lakes, reservoirs) with frequent sources of water that would support populations of fish were observed on or within the vicinity of the project site. Therefore, no fish are expected to occur and are presumed absent from the project site.

Amphibians

No amphibians or hydrogeomorphic features (e.g., creeks, ponds, lakes, reservoirs) with frequent sources of water that would support populations of amphibians were observed on or within the vicinity of the project site. Therefore, no amphibians are expected to occur and are presumed absent from the project site.

Reptiles

The project site provides foraging and cover habitat for a limited variety of reptile species adapted to a high degree of routine anthropogenic disturbance. No reptile species were observed on the project site at the time of the investigation. Common reptile species expected to occur onsite include western fence lizard (*Sceloporus occidentalis*) and southern alligator lizard (*Elgaria multicarinata*).

Birds

The project site and surrounding area provide limited foraging and nesting habitat for a bird species adapted to a high degree of anthropogenic disturbance. Bird species detected during the field investigation include rock pigeon (*Columba livia*), common raven (*Corvus corax*), and house finch (*haemorhous mexicanus*).

Mammals

The project site provides limited foraging and cover habitat for a mammalian species adapted to a high degree of anthropogenic disturbance. Non mammalian species were observed during the field investigation Common mammalian species that could potentially occur include coyote (*Canis latrans*), feral cat (*felis catus*), opossum (*Didelphis virginiana*), and raccoon (*Procyon lotor*).

Nesting Birds

The project site and surrounding area provide limited foraging and nesting habitat for year-round and seasonal avian residents adapted to a high degree of anthropogenic disturbance, as well as migrating songbirds that could occur in the area. Tall power lines, buildings, and trees within and surrounding the project site do allow for perching and nesting opportunities for raptor species. No active nests or birds displaying nesting behavior were observed on the project site.

Nesting birds are protected pursuant to the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (Sections 3503, 3503.5, 3511, and 3513 prohibit the take, possession, or destruction of birds, their nests or eggs). If construction occurs between February 1st and August 31st, a pre-construction clearance survey for nesting birds should be conducted prior to the start of any vegetation removal or ground disturbing activities to ensure that no nesting birds will be disturbed during construction.

Migratory Corridors and Linkages

Habitat linkages provide connections between larger habitat areas that are separated by development. Wildlife corridors are similar to linkages but provide specific opportunities for animals to disperse or migrate between areas. A corridor can be defined as a linear landscape feature of sufficient width to allow animal movement between two comparatively undisturbed habitat fragments. Adequate cover is essential for a corridor to function as a wildlife movement area. It is possible for a habitat corridor to be adequate for one species yet still inadequate for others. Wildlife corridors are features that allow for the dispersal, seasonal migration, breeding, and foraging of a variety of wildlife species. Additionally, open space can provide a buffer against both human disturbance and natural fluctuations in resources.

The project site is isolated from any nearby wildlife corridors or linkages. City Creek lies immediately north of the project site. This drainage does provides local movement opportunities for wildlife adapted to urban environments. However, the proposed project will be confined to existing disturbed and developed areas and is surrounded by development, which has removed most natural plant communities from the surrounding area. As a result, implementation of the proposed project will not disrupt or have any adverse effects on any migratory corridors or linkages in the surrounding area.

Jurisdictional Areas

There are three key agencies that regulate activities within inland streams, wetlands, and riparian areas in California. The Corps Regulatory Branch regulates discharge of dredge or fill materials into "waters of the United States" pursuant to Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Of the State agencies, the CDFW regulates alterations to streambed and bank under Fish and Wildlife Code Sections 1600 et seq., and the Regional Board regulates discharges into surface waters pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act.

No jurisdictional drainage and/or wetland features were observed on the project site during the field investigation. Further no blueline streams have been recorded on the project site. Therefore, development of the project will not result in impacts to Corps, Regional Board, or CDFW jurisdiction and regulatory approvals will not be required.

It should be noted that City Creek occurs immediately north of the project site. Project activities are not expected to encroach into this channel. However, if project activities impact the channel, further review will be required to determine the jurisdictional limits of the Corps, Regional Board or CDFW jurisdiction, and if regulatory approvals are required.

Special-Status Biological Resources

The CNDDB Rarefind 5 and the CNPS Electronic Inventory of Rare and Endangered Vascular Plants of

California were queried for reported locations of special-status plant and wildlife species as well as special-status natural plant communities in the Redlands USGS 7.5-minute quadrangle. The habitat assessment evaluated the conditions of the habitat(s) within the boundaries of the project site to determine if the existing plant communities, at the time of the survey, have the potential to provide suitable habitat(s) for special-status plant and wildlife species.

The literature search identified twenty-one (21) special-status plant species, fifty-nine (59) special-status wildlife species, and three (3) special-status plant communities as having the potential to occur within the Redlands 7.5-minute quadrangle. Special-status plant and wildlife species were evaluated for their potential to occur within the project site based on habitat requirements, availability and quality of suitable habitat, and known distributions. Species determined to have the potential to occur within the general vicinity of the project site are presented in Attachment C*: Potentially Occurring Special-Status Biological Resources*.

Special-Status Plants

According to the CNDDB and CNPS, twenty-one (21) special-status plant species have been recorded in the San Bernadino North quadrangle (refer to Attachment C). No special-status plant species were observed on-site during the field investigation. The project site has been subject to anthropogenic disturbances from previous land uses and grading activities, and surrounding development. These disturbances have reduced the suitability of the habitat to support special-status plant species known to occur in the general vicinity of the project site. Based on habitat requirements for specific special-status plant species and the availability and quality of habitats needed by each species, it was determined that the project site does not provide suitable habitat for any listed species. Any special-status plant species known to occur in the area are presumed to be absent from the project site. No focused surveys are recommended.

Special-Status Wildlife

According to the CNDDB, fifty-nine (59) special-status wildlife species have been reported in the San Bernadino North and Harrison Mountain quadrangles (refer to Attachment C). No special-status wildlife species were observed on-site during the field investigation. Based on habitat requirements for specific species and the availability and quality of on-site habitats, it was determined that the project site has a low potential to support Cooper's hawk (*Accipiter cooperii*). All remaining special-status wildlife species are presumed to be absent from the project site due to a lack of quality habitat.

Cooper's hawk is not federally or state listed as endangered or threatened. To ensure impacts to Cooper's hawk do not occur from implementation of the proposed project, a pre-construction nesting bird clearance survey shall be conducted prior to ground disturbance. With implementation of mitigation through the pre-construction nesting bird clearance survey, impacts to these species will be less than significant.

Based on regional significance, the suitability of the project site to support burrowing owl and San Bernardino kangaroo rat within the project site is described in further detail below.

Burrowing Owl

The burrowing owl is currently listed as a California Species of Special Concern. It is a grassland specialist distributed throughout western North America where it occupies open areas with short vegetation and bare

ground within shrub, desert, and grassland environments. Burrowing owls use a wide variety of arid and semi-arid environments with well-drained, level to gently sloping areas characterized by sparse vegetation and bare ground (Haug and Didiuk 1993; Dechant et al. 1999). Burrowing owls are dependent upon the presence of burrowing mammals (such as ground squirrels) whose burrows are used for roosting and nesting (Haug and Didiuk 1993). The presence or absence of colonial mammal burrows is often a major factor that limits the presence or absence of burrowing owls. Where mammal burrows are scarce, burrowing owls have been found occupying man-made cavities, such as buried and non-functioning drainpipes, stand-pipes, and dry culverts. Burrowing mammals may burrow beneath rocks and debris or large, heavy objects such as abandoned cars, concrete blocks, or concrete pads. They also require open vegetation allowing line-of-sight observation of the surrounding habitat to forage as well as watch for predators.

No burrowing owls or recent sign (i.e., pellets, feathers, castings, or whitewash) was observed during the field investigation. The majority of the project site is highly disturbed, and no suitable burrows were observed on-site or within in the buffer areas immediately surrounding the site. Additionally, the site is surrounded by power poles, overhead power lines, ornamental trees, and buildings, which decrease the likelihood that burrowing owls would occur on the project site as these features provide perching opportunities for larger raptor species (i.e., red-tailed hawk [*Buteo jamaicensis*]) that prey on burrowing owls.

Based on the results of the field investigation, it was determined that the project site does not have potential to support burrowing owls and focused surveys are not recommended.

San Bernardino Kangaroo Rat

The San Bernardino kangaroo rat, federally listed as endangered, is one of several kangaroo rat species in its range. The Dulzura, the Pacific kangaroo rat (*Dipodomys agilis*) and the Stephens kangaroo rat (*Dipodomys stephensi*) occur in areas occupied by the San Bernardino kangaroo rat, but these other species have a wider habitat range. The habitat of the San Bernardino kangaroo rat is described as being confined to pioneer and intermediate Riversidean Alluvial Fan Sage Scrub (RAFSS) habitats, with sandy soils deposited by fluvial (water) rather than Aeolian (wind) processes. Burrows are dug in loose soil, usually near or beneath shrubs.

The San Bernardino kangaroo rat is one of three subspecies of the Merriam's kangaroo rat. The Merriam's kangaroo rat is a widespread species that can be found from the inland valleys to the deserts. The subspecies known as the San Bernardino kangaroo, however, is confined to inland valley scrub communities, and more particularly, to scrub communities occurring along rivers, streams and drainages. Most of the drainages have been historically altered as a result of flood control efforts and the resulting increased use of river resources, including mining, off-road vehicle use and road and housing development. This increased use of river resources has resulted in a reduction in both the amount and quality of habitat available for the San Bernardino kangaroo rat. The past habitat losses and potential future losses prompted the emergency listing of the San Bernardino kangaroo rat as an endangered species (USFWS, 1998a). PCE's are physical or biological features essential to the conservation of a species for which its designated critical habitat is based on. Examples of PCE's include food, water, space for individual and population growth, cover or shelter, etc. The PCEs essential to support the biological needs of foraging, reproducing, rearing of young, intra-specific communication, dispersal, genetic exchange, or sheltering for San Bernardino kangaroo rat are:

1. River, creek, stream, and wash channels; alluvial fans, flood plains, flood benches and terraces; and historic braided channels that are subject to dynamic geomorphological and hydrological processes;
2. Alluvial sage scrub and associated vegetation such as coastal sage scrub and chamise chaparral with a moderately open canopy;
3. Soil series consisting of sand, sandy loam, or loam within its geographical range; and
4. Upland areas proximal to flood plains containing suitable habitat (land adjacent to alluvial fan that provides Refugia).

San Bernardino kangaroo rat is known to occur within Lytle Creek. The project site consists of vacant, heavily disturbed land with compacted soils that have been disturbed from previous land uses. Field sign for kangaroo rat, including San Bernardino kangaroo rat, is distinctive and readily noted in the field. No sign (e.g., San Bernardino kangaroo rat characteristic burrows, dusting baths, and/or tail drags) were observed on the project site. Additionally, the project site no longer is subject to the hydrologic influence of Cajon Wash.

As noted above, the project site and surrounding areas have not been exposed to fluvial processes associated with the streams in the area since development in the area occurred. The project site is not subject to dynamic geomorphological and hydrological processes needed to scour and reset the onsite habitats back to pioneer or intermediate RAFSS habitats. Further, the project site no longer receives sand or sandy loam soils from scouring events needed by San Bernardino kangaroo rat for burrowing. Instead, the site supports highly graded and compacted rocky soils.

Based on these conditions, it was determined that the project site does not provide the requisite habitat elements needed by San Bernardino kangaroo rat to be present. Therefore, it was determined that San Bernardino kangaroo rat is presumed absent from the project site. No focused surveys are recommended.

Special-Status Plant Communities

According to the CNDDB, three (3) special-status plant communities have been reported in the Redlands USGS 7.5-minute quadrangle: Riversidian Alluvial Fan Sage Scrub, Southern Sycamore Alder Riparian Woodland, and Southern Mixed Riparian Forest (refer to Attachment C), none of which were observed on-site during the field investigation. Therefore, no special-status plant communities will be impacted by implementation of the proposed project.

Critical Habitats

Under the federal Endangered Species Act, "Critical Habitat" is designated at the time of listing of a species or within one year of listing. Critical Habitat refers to specific areas within the geographical range of a species at the time it is listed that include the physical or biological features that are essential to the survival and eventual recovery of that species. Maintenance of these physical and biological features requires special management considerations or protection, regardless of whether individuals or the species are present or not. All federal agencies are required to consult with the USFWS regarding activities they authorize, fund, or permit which may affect a federally listed species or its designated Critical Habitat. The purpose of the consultation is to ensure that projects will not jeopardize the continued existence of the listed species or adversely modify or destroy its designated Critical Habitat. The designation of Critical Habitat does not

affect private landowners, unless a project they are proposing is on federal lands, uses federal funds, or requires federal authorization or permits (e.g., funding from the Federal Highways Administration or a Clean Water Act Permit from the United States Army Corps of Engineers). If there is a federal nexus, then the federal agency that is responsible for providing the funding or permit would consult with the USFWS.

The project site is not located within federally designated Critical Habitat for any species. The nearest critical habitats occur 0.3 mile to the southeast for Santa Ana sucker (*Catostomas santaanae*) and 0.17 mile to the south for San Bernadino Merriam's kangaroo rat (*Dipodomys merriami*). Refer to Exhibit 6, *Critical Habitat* in Attachment A. The entire project site and most adjacent areas have been converted from natural habitat into commercial, residential, and institutional development. The site supports no natural plant communities, and it was determined that the project does not support suitable habitat for any listed species. Furthermore, since the proposed project does not have a federal nexus a Section 7 consultation with the USFWS would not be required for loss or adverse modifications to Critical Habitat.

Conclusion

Based on the proposed project footprint and existing site conditions discussed in this report, no special-status plant or wildlife species were observed during the field investigation. In addition, Cooper's hawk was determined to have a low potential to occur. With the implementation of a pre-construction nesting bird clearance survey, impacts to Cooper's hawk will be less than significant. Further, no special-status plant species or other special-status wildlife species known to occur in the general vicinity of the project site is expected to be directly or indirectly impacted from implementation of the proposed project. With completion of the recommendations provided above, no impacts to year-round, seasonal, or special-status avian residents or special-status species will occur from implementation of the proposed project. Therefore, it was determined that implementation of the project will have "no effect" on federally or State listed species known to occur in the general vicinity of the project site. Additionally, the development of the project will not impact designated Critical Habitats, regional wildlife movement corridors/linkages, or jurisdictional drainage features.

Recommendations

Migratory Bird Treaty Act and Fish and Game Code

Nesting birds are protected pursuant to the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (Sections 3503, 3503.5, 3511, and 3513 prohibit the take, possession, or destruction of birds, their nests or eggs). In order to protect migratory bird species, a nesting bird clearance survey should be conducted prior to any ground disturbance or vegetation removal activities that may disrupt the birds during the nesting season.

If construction occurs between February 1st and August 31st, a pre-construction clearance survey for nesting birds should be conducted within three (3) days of the start of any vegetation removal or ground disturbing activities to ensure that no nesting birds will be disturbed during construction. The biologist conducting the clearance survey should document a negative survey with a brief letter report indicating that no impacts to active avian nests will occur. If an active avian nest is discovered during the pre-construction clearance survey, construction activities should stay outside of a no-disturbance buffer. The size of the no-disturbance buffer will be determined by the wildlife biologist and will depend on the level of noise and/or surrounding

anthropogenic disturbances, line of sight between the nest and the construction activity, type and duration of construction activity, ambient noise, species habituation, and topographical barriers. These factors will be evaluated on a case-by-case basis when developing buffer distances. Limits of construction to avoid an active nest will be established in the field with flagging, fencing, or other appropriate barriers; and construction personnel will be instructed on the sensitivity of nest areas. A biological monitor should be present to delineate the boundaries of the buffer area and to monitor the active nest to ensure that nesting behavior is not adversely affected by the construction activity. Once the young have fledged and left the nest, or the nest otherwise becomes inactive under natural conditions, construction activities within the buffer area can occur.

Please do not hesitate to contact Tom McGill at (951) 285-6014 or tmcgill@elmtconsulting.com or Travis McGill at (909) 816-1646 or travismcgill@elmtconsulting.com should you have any questions this report.

Sincerely,

Thomas J. McGill, Ph.D.
Managing Director

Travis J. McGill
Director

Attachments:

A. *Project Exhibits*
B. *Site Plan*
C. *Site Photographs*
D. *Potentially Occurring Special-Status Biological Resources*
E. *Regulations*

Attachment A

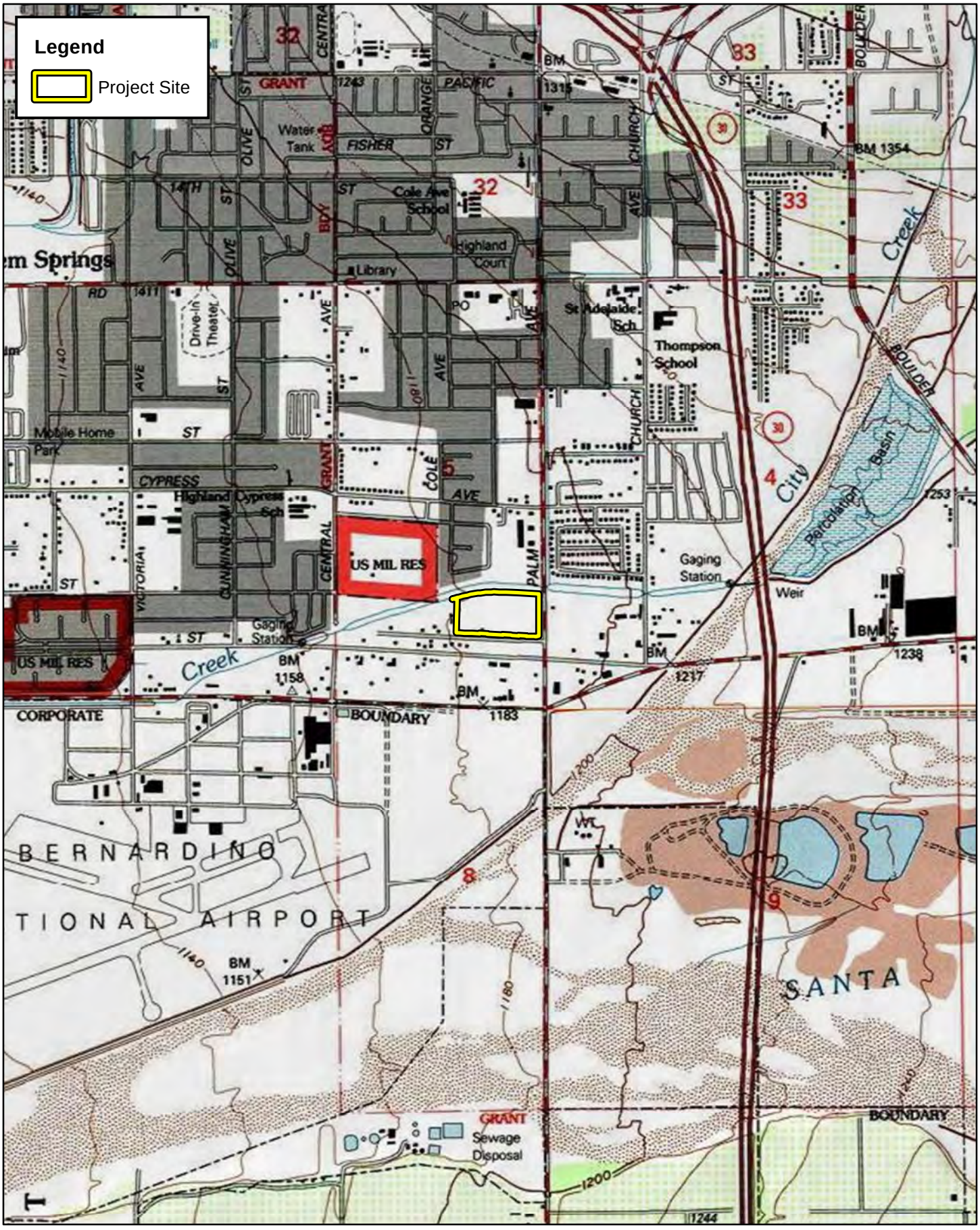
Project Exhibits

MEINES AND PALM PROJECT
HABITAT ASSESSMENT

Regional Vicinity

Source: World Street Map, San Bernardino County

Exhibit 1



MEINES AND PALM PROJECT

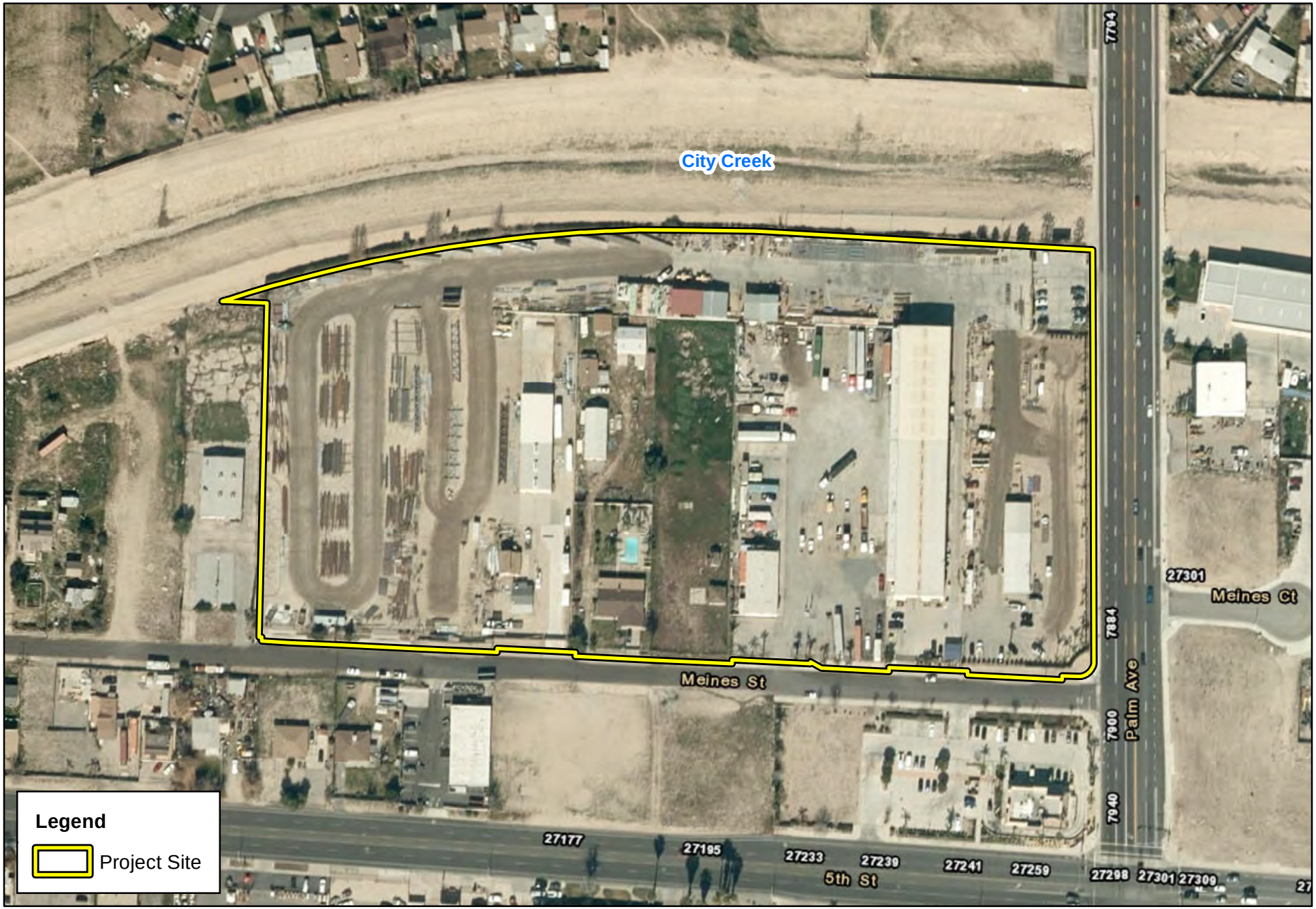
ELMT CONSULTING

0 1,000 2,000 4,000 Feet

Site Vicinity

Source: USA Topographic Map, San Bernardino County

Exhibit 2



MEINES AND PALM PROJECT

ELMT CONSULTING

0 125 250 500 Feet

Source: ESRI Aerial Imagery, San Bernardino County

Project Site

Exhibit 3

MEINES AND PALM PROJECT

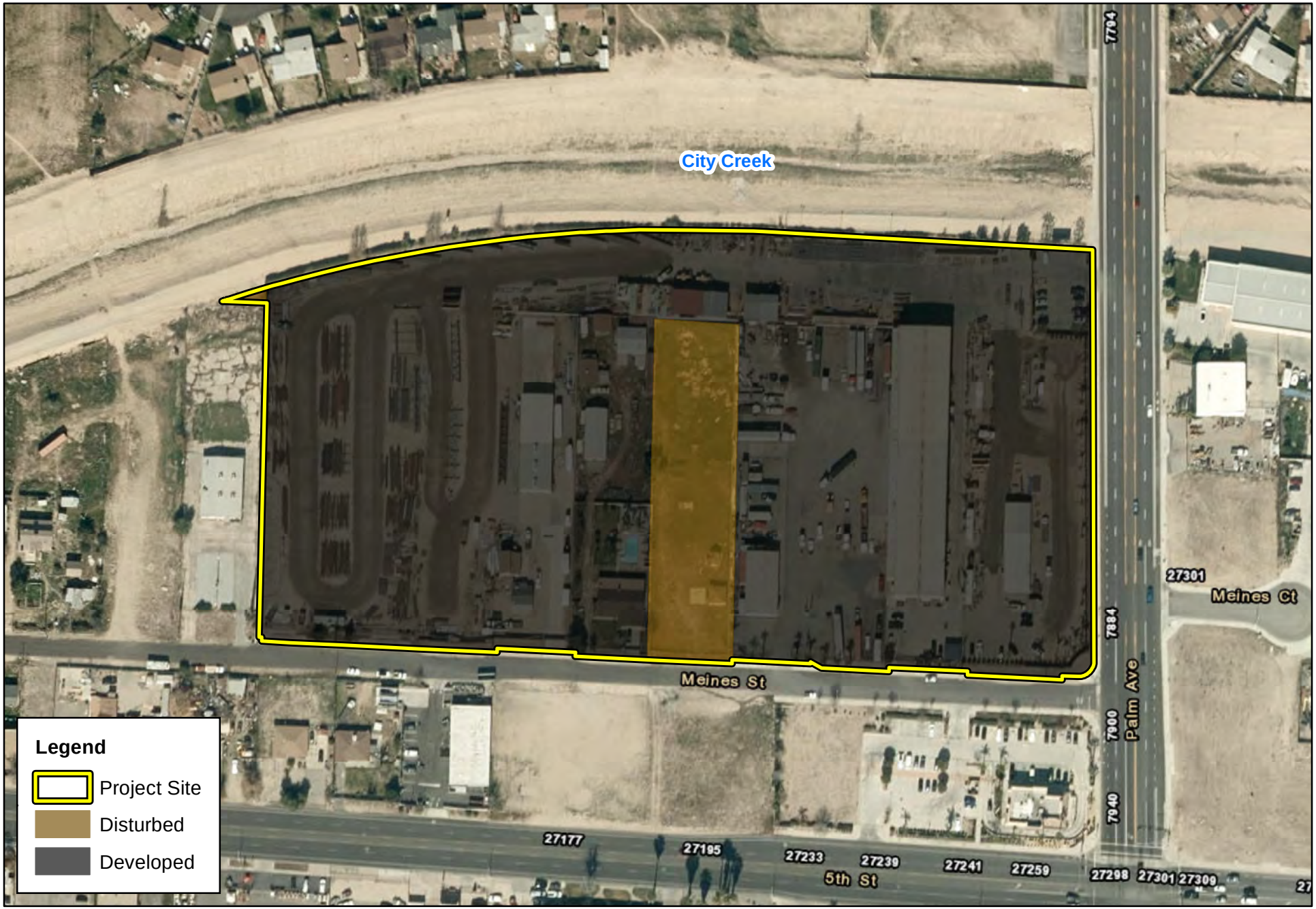
ELMT CONSULTING

0 125 250 500 Feet

Soils

Source: ESRI Aerial Imagery, Soil Survey Geographic Database, San Bernardino County

Exhibit 4



MEINES AND PALM PROJECT

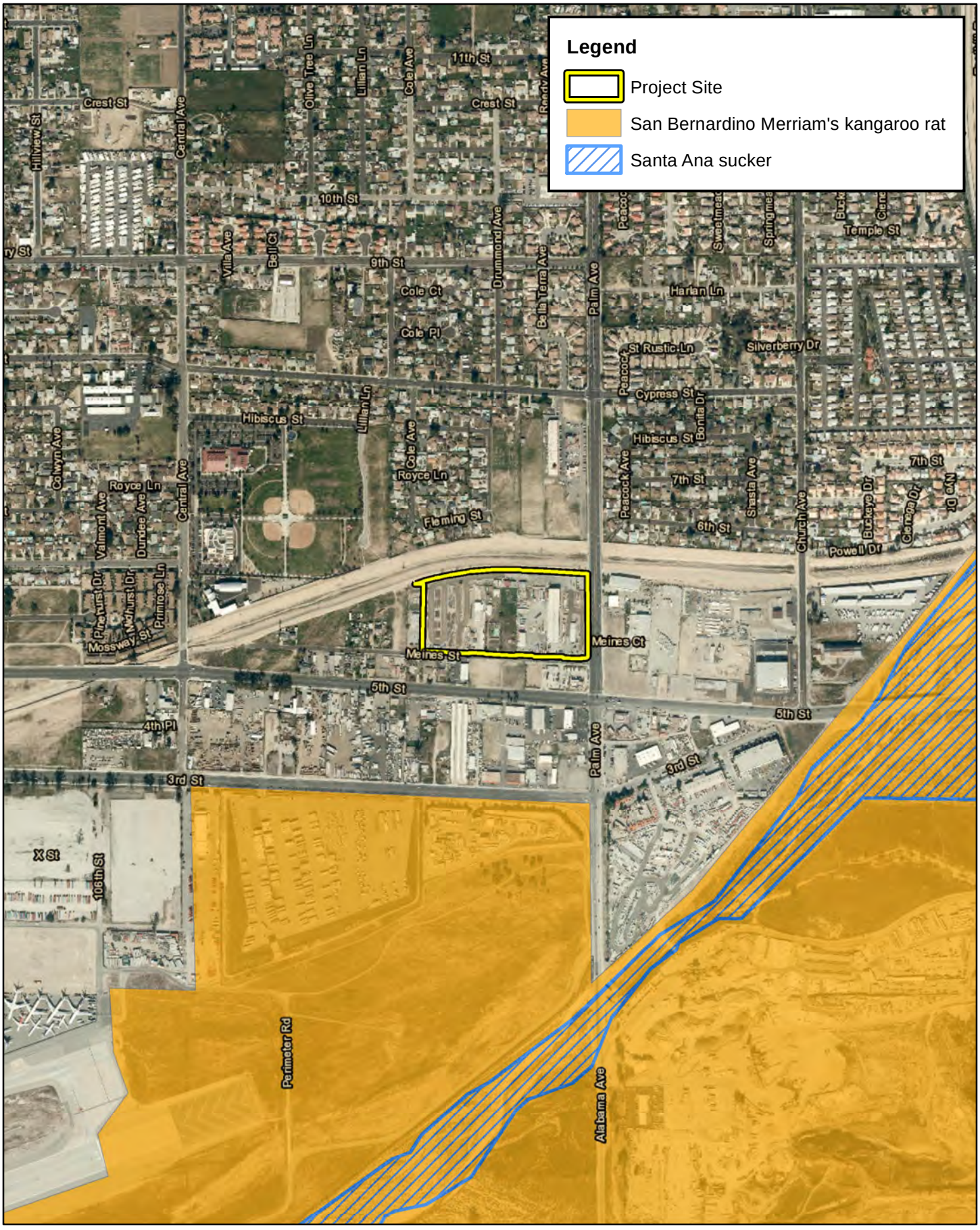
ELMT CONSULTING

0 125 250 500 Feet

Source: ESRI Aerial Imagery, San Bernardino County

Vegetation

Exhibit 5



MEINES AND PALM PROJECT

ELMT CONSULTING

0 250 500 1,000 Feet

Critical Habitat

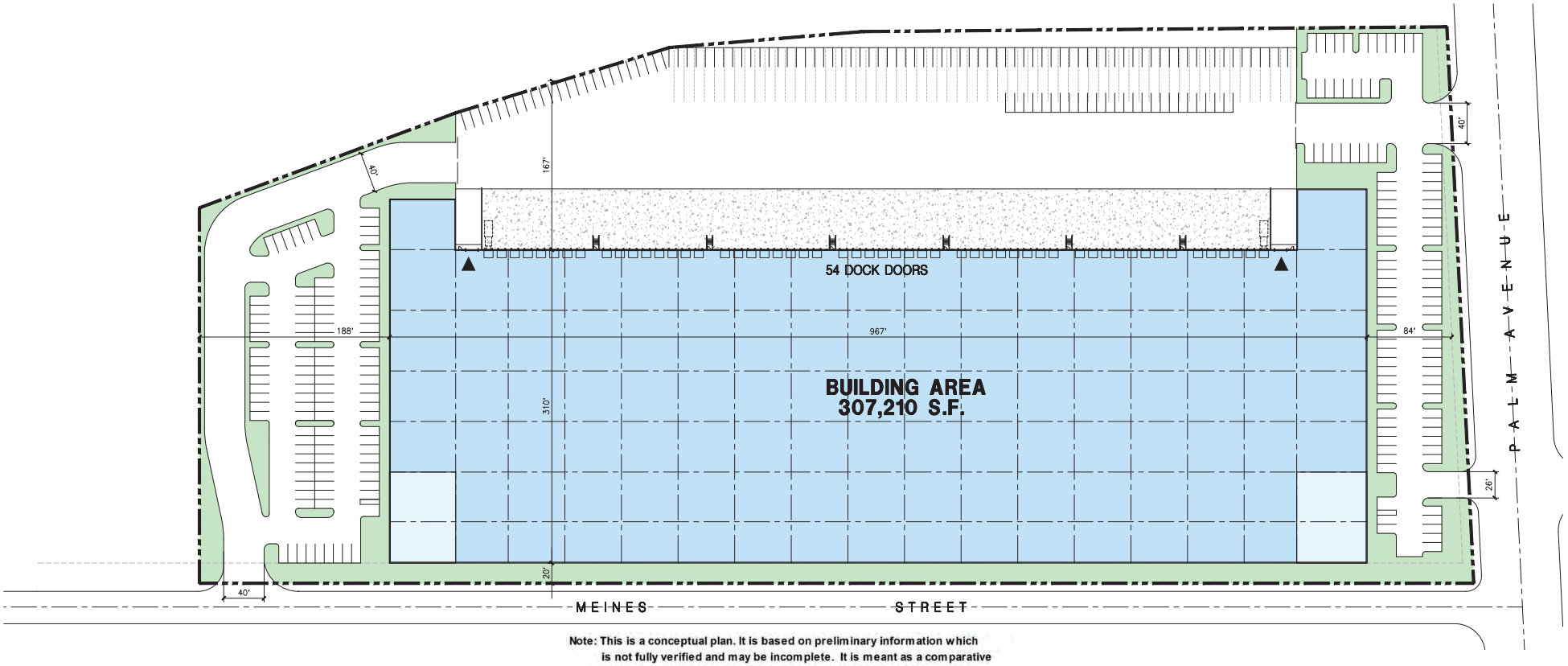
Source: ESRI Aerial Imagery, USFWS Critical Habitat, San Bernardino County

Exhibit 6

Attachment B

Site Plan

CAUTION: IF THIS SHEET IS NOT 30"X42", IT IS A REDUCED PRINT

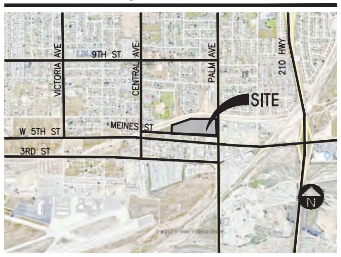


Note: This is a conceptual plan. It is based on preliminary information which is not fully verified and may be incomplete. It is meant as a comparative aid in examining alternate development strategies and any quantities indicated are subject to revision as more reliable information becomes available.

Tabulation

SITE AREA		**TRAILER PARKING PROVIDED**	
In s.f.	637,959 sf	Trailer (10' x 53')	61 stalls
In acres	14.6 ac	**ZONING ORDINANCE**	
BUILDING AREA		Zoning - Industrial (I)	
Office	5,000 sf	**MAXIMUM BUILDING HEIGHT ALLOWED**	
Warehouse	302,210 sf	Height - 50'	
TOTAL	**307,210** sf	**LANDSCAPE REQUIREMENT**	
SITE COVERAGE		Percentage - 10% of total parking area	
Maximum Allowed	60%	**LANDSCAPE PROVIDED**	
Actual	48.2%	In s.f.	61,647 sf
AUTO PARKING REQUIRED		Percentage	18.6%
Office: 1/250 s.f.	20 stalls	**SETBACKS**	
Whse: 1/1,100 s.f	303 stalls	Building	Landscape
TOTAL	**323** stalls	Front - 20'	Min. - 10'
AUTO PARKING PROVIDED		Side - 0', Street side - 20'	
Standard (9' x 19')	323 stalls	Rear - 0'	

Aerial Map



Legend

- POTENTIAL OFFICE
- WAREHOUSE
- ▼ DRIVE THRU DOOR

north

1" = 40'
0 40 80 120

HPA architecture

Conceptual Site Plan

Meines Street & Palm Avenue

LOVETT INDUSTRIAL

18831 Bardeen Ave. - Ste. #100
Irvine, CA 92612
(949) 863-1770
www.hparchs.com

Highland, CA

April 20, 2022 / Job #22240

Scheme 2

Attachment C

Site Photographs

Photograph 1: From the northwest corner of the project site, looking south along the western boundary.

Photograph 2: From the northwest corner of the project site, looking east along the northern boundary.

Photograph 3: From the northwest corner of the project site, looking northeast through the existing drainage along the buffer zone to the north of the project boundary (outside of project footprint).

Photograph 4: From the middle of the northern boundary of the project site, looking southeast through the middle of the site.

Photograph 5: From middle of the drainage which lies north of the project site, looking south at an existing cement culvert running through the middle of the northern boundary of the project site.

Photograph 6: A closer look at the existing outlet for the 36-inch cement culvert which runs through the northern boundary of the project site.

Photograph 7: From the existing drainage to the north of the project site, looking east through vegetation adjacent to a bridge which supports Palm Avenue.

Photograph 8: From the northeast corner of the project site, looking south along the eastern boundary.

Photograph 9: From the northeast corner of the project site, looking west along the northern boundary.

Photograph 10: From the middle of the eastern boundary of the project site, looking west through the middle of the site.

Photograph 11: From the southern boundary of the project site, looking north through a parcel which supports existing industrial development.

Photograph 12: From the southern boundary of the project site, looking north through a parcel which supports existing residential development.

Photograph 13: From the middle of the southern boundary of the project site, looking northeast through parcels which support separate residential and industrial devleopment.

Photograph 14: From the middle of the southern boundary of the project site, looking north through the middle of the site and existing commercial development.

Photograph 15: From the southern boundary of the project site, looking north through the middle of the site.

Photograph 16: From the southern boundary of the project site, looking north through existing institutional development.

Photograph 17: From the southwest corner of the project site, looking north along the western boundary of the site.

Photograph 18: From the southwest corner of the project site, looking east along the southern boundary of the site.

Photograph 19: From the southwest corner of the project site, northeast through the middle of the site.

Attachment D

Potentially Occurring Special-Status Biological Resources

Table D-1: Potentially Occurring Special-Status Biological Resources

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
SPECIAL-STATUS WILDLIFE SPECIES				
Accipiter cooperii Cooper's hawk	Fed: None CA: WL	Generally found in forested areas up to 3,000 feet in elevation, especially near edges and rivers. Prefers hardwood stands and mature forests, but can be found in urban and suburban areas where there are tall trees for nesting. Common in open areas during nesting season.	No	**Low** There is marginal foraging habitat on the site and minimal nesting opportunities. This species is adapted to urban environments and occurs commonly.
Agelaius tricolor tricolored blackbird	Fed: None CA: **THR**	Prefers wetland and grassland habitats. Nests in cattails bulrushes, and willows. Due to habitat loss, most native populations now found in rice-growing regions and flooded agricultural areas.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Aimophila ruficeps canescens southern California rufous-crowned sparrow	Fed: None CA: WL	Typically found between 3,000 and 6,000 feet in elevation. Breed in sparsely vegetated shrublands on hillsides and canyons. Prefers coastal sage scrub dominated by California sagebrush (*Artemisia californica*), but can also be found breeding in coastal bluff scrub, low-growing serpentine chaparral, and along the edges of tall chaparral habitats.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Anniella stebbinsi southern California legless lizard	Fed: None CA: SSC	Occurs primarily in areas with sandy or loose loamy soils under sparse vegetation of beaches, chaparral, or pine-oak woodland; or near sycamores, oaks, or cottonwoods that grow on stream terraces. Often found under or in the close vicinity of logs, rocks, old boards, and the compacted debris of woodrat nests.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Antrozous pallidus pallid bat	Fed: None CA: SSC	Found in arid and semi-arid regions, often in mountainous or rocky areas near water. Can also by found over open, sparsely vegetated grasslands. Roosts in cracks, crevices, and rocky outcrops.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Aquila chrysaetos golden eagle	Fed: None CA: FP; WL	Occupies nearly all terrestrial habitats of the western states except densely forested areas. Favors secluded cliffs with overhanging ledges and large trees for nesting and cover. Hilly or mountainous country where takeoff and soaring are supported by updrafts is generally preferred to flat habitats. Deeply cut canyons rising to open mountain slopes and crags are ideal habitat.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Ardea alba great egret	Fed: None CA: None	Found among marshes, ponds, shores, and mud flats. Forages in open areas like along rivers, lake edges, large marshes, shallow coastal lagoons, and estuaries.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
Ardea Herodias great blue heron	Fed: None CA: None	Found in both salt and freshwater habitats. Common around open coasts, marshes, sloughs, riverbanks, and lakes, but can also be found in along urban ponds. Forages in grasslands and agricultural fields. Nests in trees high off the ground.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Arizona elegans occidentalis California glossy snake	Fed: None CA: SSC	Occurs in a wide variety of habitat types including open desert, grasslands, shrublands, chaparral, and woodlands. Prefers areas where the soil is loose and sandy which allows for burrowing.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Artemisiospiza belli belli Bell's sage sparrow	Fed: None CA: WL	Occurs in chaparral dominated by fairly dense stands of chamise. Also found in coastal sage scrub in south of range.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Aspidoscelis hyperythra orangethroat whiptail	Fed: None CA: SSC	Inhabits low-elevations coastal scrub, chamise-redshank chaparral, mixed chaparral, and valley-foothill hardwood habitats. Semi-arid brushy areas typically with loose soil and rocks, including washes, stream sides, rocky hillsides, and coastal chaparral.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Aspidoscelis tigris stejnegeri coastal whiptail	Fed: None CA: SSC	Found in a variety of ecosystems, primarily hot and dry open areas with sparse foliage such as chaparral, woodland, and riparian areas.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Athene cunicularia burrowing owl	Fed: None CA: SSC	Inhabits open, dry, sparsely vegetated land with available burrows abandoned by small rodents. Found in grasslands, deserts, and along the slopes of drainages, but can also be found in more urban areas like airport runways and golf courses.	No	**Presumed Absent** No suitable burrows observed within the project site or in the surrounding buffer zone.
Bombus crotchii Crotch bumble bee	Fed: None CA: None	Exclusive to coastal California east towards the Sierra-Cascade Crest; less common in western Nevada.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Buteo regalis ferruginous hawk	Fed: None CA: WL	Occurs primarily in open grasslands and fields, but may be found in sagebrush flats, desert scrub, low foothills, or along the edges of pinyon-juniper woodland. Feeds primarily on small mammals and typically found in agricultural or open fields.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Buteo swainsonii Swainson's hawk	Fed: None CA: THR	Lives in open areas like savannas, grasslands, steppes, and cultivated lands. Habitat is dependent on an abundance of small mammal prey. Nests in small thickets of trees and sometimes yuccas.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Calypte costae Costa's hummingbird	Fed: None CA: None	Desert and semi-desert, arid brushy foothills and chaparral. A desert hummingbird that breeds in the Sonoran and Mojave Deserts. Departs desert heat moving into chaparral, scrub, and woodland habitats.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
Chaetodipus fallax fallax northwestern San Diego pocket mouse	Fed: None CA: SSC	Occurs in desert and coastal habitats in southern California, Mexico, and northern Baja California, from sea level to at least 1,400 meters above msl. Found in a variety of temperate habitats ranging from chaparral and grasslands to scrub forests and deserts. Requires low growing vegetation or rocky outcroppings, as well as sandy soils for burrowing.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Chaetodipus fallax pallidus pallid San Diego pocket mouse	Fed: None CA: SSC	Lives in coastal scrub, chamise-redshank chaparral, mixed chaparral, sagebrush, desert wash, desert scrub, desert succulent scrub, pinyon-juniper woodlands, and annual grasslands. Prefers moderate canopy coverage of arid shrubland or on or near rocky slopes and sandy areas.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Circus hudsonius northern harrier	Fed: None CA: SSC	Found in wide-open habitats in prairie grasslands, fields, and marshes. Nests are concealed on the ground in grasses or wetland vegetation.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Coccyzus americanus occidentalis western yellow-billed cuckoo	Fed: **THR** CA: **END**	Can be found in coastal scrub, second-growth forests and woodlands, hedgerows, forest edges, and in smaller riparian patches than those used for breeding. Wintering yellow-billed cuckoos generally reside in woody lowland vegetation near freshwater resources.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Crotalus ruber red-diamond rattlesnake	Fed: None CA: SSC	Inhabits arid scrub, coastal chaparral, oak and pine woodlands, rocky grassland, and cultivated areas from sea level to 3,000 feet in elevation. Common on desert slopes of mountains and rocky desert flats.		**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Diadophis punctatus modestus Sand Bernadino ringneck snake	Fed: None CA: None	Found in various moist habitats including woodland chaparral, forest and grassland. Can also be found in farmlands and gardens. Shelters under logs, stones or boards and is not an active burrower.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Dipodomys merriami parvus San Bernardino kangaroo rat	Fed: **END** CA: CE; SSC	Primarily found in Riversidian alluvial fan sage scrub and sandy loam soils, alluvial fans and flood plains, and along washes with nearby sage scrub. May occur at lower densities in Riversidian upland sage scrub, chaparral and grassland in uplands and tributaries in proximity to Riversidian alluvial fan sage scrub habitats. Tend to avoid rocky substrates and prefer sandy loam substrates for digging of shallow burrows.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Dipodomys simulans Dulzura kangaroo rat	Fed: None CA: None	Relatively common in chaparral, coastal sage scrub, Riversidean alluvial fan sage scrub, and peninsular juniper woodland habitats.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
Dipdomys stephensi Stephen's kangaroo rat	Fed: **THR** CA: **THR**	Common in coastal sage scrub habitats and transition areas such as grasslands and mixed chaparral as well as agricultural areas. Prefers sparse, perennial vegetation and well-drained soils.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Elanus leucurus white-tailed kite	Fed: None CA: FP	Found in open groves, river valleys, savannas, open woodlands, marshes, desert grasslands, partially cleared lands, and cultivated fields. Avoids heavily grazed areas. Requires some trees for perching and nesting, as well as open ground with an abundance of small mammals.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Empidonax traillii Willow flycatcher	Fed: None CA: **END**	Found in bushes, willows, thickets, brushy fields and upland copses. Breeds in thickets of deciduous trees and shrubs, especially willows or along woodland edges. Often near streams or marshes, especially in southern part of range, but may be found in drier habitats than Alder Flycatcher.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Empidonax traillii extimus Southwestern willow flycatcher	Fed: **END** CA: **END**	Requires dense riparian habitats for nesting. Breeds in thickets of deciduous trees and shrubs, especially willows or along woodland edges. Often near streams or marshes. Winters around clearings and second growth in the tropics, especially near water.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Eremophila alpestris actia California horned lark	Fed: None CA: WL	Generally found in shortgrass prairies, grasslands, disturbed fields, or similar habitat types along the coast or in deserts. Trees are shrubs are usually scarce or absent. Generally rare in montane, coniferous, or chaparral habitats. Forms large flocks outside of the breeding season.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Eugnosta busckana Busk's gallmoth	Fed: None CA: None	Little is known about the habitat and distribution of this species.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Eumops perotis californicus western mastiff bat	Fed: None CA: SSC	Occurs in many open spaces in semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, annual and perennial grasslands, palm oases, chaparral, desert scrub, and urban. Potential roost locations require vertical faces to drop off from to take flight.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Falco columbarius merlin	Fed: None CA: WL	Winters in open forests, grasslands and coastal areas. Breeds in forested openings, edges and along rivers. Habitat varies from coniferous forests to open conifer woodland, prairie groves, foothill marshes and open country.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Falco peregrinus anatum American peregrine falcon	Fed: None CA: FP	Found in a wide range of open habitats. Often along mountain ranges, or near water, especially along the coast. Adapted to urban environments and cities, often nesting on building ledges.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Gymnogyps californianus *California condor*	Fed: **END** CA: FP	Inhabits rugged canyons, gorges and forested mountains between 985 and 8,860 feet. Nests primarily between 2,000 and 4,500 feet in cliff caves.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
Icteria virens yellow-breasted chat	Fed: None CA: SSC	Primarily found in tall, dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush with well-developed understories. Nesting areas are associated with streams, swampy ground, and the borders of small ponds. Breeding habitat must be dense to provide shade and concealment. It winters south the Central America.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Lanius ludovicianus loggerhead shrike	Fed: None CA: SSC	Often found in broken woodlands, shrublands, and other habitats. Prefers open country with scattered perches for hunting and fairly dense brush for nesting.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Lasiurus xanthinus Western yellow bat	Fed: None CA: SSC	Roosts in palm trees in foothill riparian, desert wash, and palm oasis habitats with access to water for foraging.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Lepus californicus bennettii San Diego black-tailed jackrabbit	Fed: None CA: SSC	Occurs in diverse habitats, but primarily is found in arid regions supporting shortgrass habitats. Openness of open scrub habitat is preferred over dense chaparral.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Myotis yumanensis Yuma myotis	Fed: None CA: None	Resides in moist and dry forests, riparian areas, grasslands, shrubsteppe, and deserts. Closely associated with rivers, streams, lakes, and ponds. Generally found at lower elevations. Roosts in bridges, buildings, cliff crevices, caves, mines, and trees.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Neolarra alba white cuckoo bee	Fed: None CA: None	Found in dry, sandy areas (particularly deserts) in the American southwest near the host plants for *Perdita* bee species, of which it is a nest parasite.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Neotoma lepida intermedia San Diego desert woodrat	Fed: None CA: SSC	Occurs in coastal scrub communities between San Luis Obispo and San Diego Counties. Prefers moderate to dense canopies, and especially rocky outcrops.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Nyctinomops femorosaccus pocketed free-tailed bat	Fed: None CA: SSC	Often found in pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oasis.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Oncorhynchus mykiss irideus **pop. 10** steelhead – southern california DPS	Fed: **END** CA: None	Found in permanent coastal streams from San Diego to the Smith River.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Perognathus alticola alticola white-eared pocket mouse	Fed: None CA: SSC	Endemic to the San Bernadino and Tehachapi Mountains. Found in isolated montane areas among ponderosa and Jeffrey pine habitats, but sometimes found in mixed chaparral and sagebrush habtitats as well as in fallow fields dominated by Russian thistle. Forages in open ground and beneath shrubs.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
Perognathus longimembris brevinasus Los Angeles pocket mouse	Fed: None CA: SSC	Occurs in lower elevation grasslands and coastal sage scrub communities in and around the Los Angeles Basin. Prefers open ground with fine sandy soils. May not dig extensive burrows but will seek refuge under weeds and dead leaves instead.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Phrynosoma blainvillii coast horned lizard	Fed: None CA: SSC	Occurs in a wide variety of vegetation types including coastal sage scrub, annual grassland, chaparral, oak woodland, riparian woodland and coniferous forest. In inland areas, this species is restricted to areas with pockets of open microhabitat, created by disturbance (i.e. fire, floods, roads, grazing, fire breaks). The key elements of such habitats are loose, fine soils with a high sand fraction; an abundance of native ants or other insects; and open areas with limited overstory for basking and low, but relatively dense shrubs for refuge.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Polioptila californica californica coastal California gnatcatcher	Fed: **THR** CA: SSC	Obligate resident of sage scrub habitats that are dominated by California sagebrush (*Artemisia californica*). This species generally occurs below 750 feet elevation in coastal regions and below 1,500 feet inland. Ranges from the Ventura County, south to San Diego County and northern Baja California and it is less common in sage scrub with a high percentage of tall shrubs. Prefers habitat with more low-growing vegetation.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Progne subis purple martin	Fed: None CA: SSC	Prefers open spaces that are located near water sources. Forages in meadows, grasslands, over lakes and ponds and flooded pastures. Also inhabits urban areas like farms, croplands, parks and gardens. Nests in cavities of trees, cactus, buildings, or cliffs.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Pyrocephalus rubinus vermillion flycatcher	Fed: None CA: SSC	Prefers open habitat such as arid scrubland, farmland, desert savannah, cultivated lands and riparian woodlands. Nests can be found specifically in willows, oaks, cottonwoods, mesquites and sycamores.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Rana draytonii California red-legged frog	Fed: **THR** CA: SSC	Found from sea level to elevations of about 5,200 feet, primarily in coastal drainages.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Rana muscosa southern mountain yellow-legged frog	Fed: **END** CA: **END**; WL	Occurs in lower elevation habitats characterized by rocky streambeds and wet meadows, while higher elevation habitats include lakes, ponds, and streams. Occupy streams in narrow, rock-walled canyons. Often found along rock walls or vegetated banks and always within a few feet of the water.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
***Rhinichthys osculus* ssp. 3** Santa Ana speckled dace	Fed: None CA: SSC	Requires permanent flowing streams within summer water temperatures of 17 – 20 degrees Celsius. Inhabits shallow cobble and gravel riffles and small streams that flow through steep, rocky canyons with chaparral covered walls.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Salvadora hexalepis virgultea coast patch-nosed snake	Fed: None CA: SSC	Inhabits semi-arid brushy areas and chaparral in canyons, rocky hillsides, and plains. Requires friable soils for burrowing.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Setophaga petechia yellow warbler	Fed: None CA: SSC	Nests over all of California except the Central Valley, the Mojave Desert region, and high altitudes and the eastern side of the Sierra Nevada. Winters along the Colorado River and in parts of Imperial and Riverside Counties. Nests in riparian areas dominated by willows, cottonwoods, sycamores, or alders or in mature chaparral. May also use oaks, conifers, and urban areas near stream courses.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Spea hammondii Western spadefoot	Fed: None CA: SSC	Prefers open areas with sandy or gravelly soils, in a variety of habitats including mixed woodlands, grasslands, coastal sage scrub, chaparral, sandy washed, lowlands, river floodplains, alluvial fans, playas, alkali flats, foothills, and mountains. Rainpools which do not contain bullfrogs, fish, or crayfish are necessary for breeding.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Spinus lawrencei Lawrence's Goldfinch	Fed: None CA: None	Open woodlands, chaparral, and weedy fields. Closely associated with oaks. Nests in open oak or other arid woodland and chaparral near water.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Strix occidentalis occidentalis California spotted owl	Fed: None CA: SSC	Breeds and roosts in forests and woodland with large old trees and snags, high basal areas of trees and snags, dense canopies, multiple canopy layers, and downed woody debris. Large old trees are key as they provide nest sites and cover from weather.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Taricha torosa coast range newt	Fed: None CA: SSC	Can be found in coastal areas and coastal range mountains in oak forests, woodlands, and rolling grasslands. In the terrestrial phase, they live in moist to dry habitats under woody or leafy debris, in rock crevices, or in animal burrows. In the aquatic phase they are found in ponds, lakes, resevoirs, and slow-moving streams.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Taxidea taxus American badger	Fed: None CA: SSC	Primarily occupy grasslands, parklands, farms, tallgrass and shortgrass prairies, meadows, shrub-steppe communities and other treeless areas with sandy loam soils where it can dig more easily for its prey. Occasionally found in open chaparral (with less than 50% plant cover) and riparian zones.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Thamnophis hammondii Two-striped gartersnake	Fed: None CA: SSC	Occurs in or near permanent fresh water, often along streams with rocky beds and riparian growth up to 7,000 feet in elevation.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
Vireo bellii pusillus least Bell's vireo	Fed: **END** CA: **END**	Primarily occupy Riverine riparian habitat that typically feature dense cover within 1-2 meters of the ground and a dense, stratified canopy. Typically it is associated with southern willow scrub, cottonwood-willow forest, mule fat scrub, sycamore alluvial woodlands, coast live oak riparian forest, arroyo willow riparian forest, or mesquite in desert localities. It uses habitat which is limited to the immediate vicinity of water courses, 2,000 feet elevation in the interior.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Xanthocephalus xanthocephalus yellow-headed blackbird	Fed: None CA: SSC	Winters in the western United States. Breeds in freshwater sloughs, marshy lake boarders, and tall cattails. Nests primarily in large wetlands, but also in mountain meadows and along the edges of ponds and rivers. Forages in fields and open country.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
SPECIAL-STATUS PLANT SPECIES				
Abronia villosa* var. *aurita chaparral sand-verbena	Fed: None CA: None CNPS: 1B.1	Associated with creosote-bush scrub and coastal sage scrub communities. Grows in well-drained sandy soils in desert habitats and flood plains within the southwestern United States and northern Mexico. Occurs at elevations up to 4,500 feet. Blooms from February to May.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Arenaria paludicola marsh sandwort	Fed: **END** CA: **END** CNPS: 1B.1	Grows mainly in wetlands and freshwater marshes in arid climates. The plant can grow in saturated acidic bog soils and soils that are sandy with a high organic content. Found at elevations ranging from 33 to 558 feet. Blooming period is from May to August.	No	**Presumed Absent** No suitable habitat is present within the project site.
Artemisia palmeri San Diego sagewort	Fed: None CA: None CNPS: 4.2	Grows along coastal creeks and drainages and other small pockets with residual moisture in coastal sage scrub and chaparral communities. Prefers sandy soils. Occurs in areas below 2,000 feet in elevation. Blooms from June to July.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.
Berberis nevinii Nevin's barrberry	Fed: **END** CA: **END** CNPS: 1B.1	Prefers a riparian and alluvial scrub habitat and can be found in foothill woodlands, coastal sage scrub, and chaparral communities. Grows on sandy soils in washes, alluvial terraces and canyon bottoms.	No	**Presumed Absent** No suitable habitat is present within the project site.
Bouteloua trifida three-awned grama	Fed: None CA: None CNPS: 2B.3	Grows on dry open plains, shrubby hills, and rocky slopes. Occur at elevations ranging from 7,200 to 8,200 feet. Prefers rocky, well-drained soils in areas with full sun. Seeds in May and June.	No	**Presumed Absent** No suitable habitat is present within or adjacent to the project site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
Calochortus plummerae Plummer's mariposa-lily	Fed: None CA: None CNPS: 4.2	Prefers openings in chaparral, foothill woodland, coastal sage scrub, valley foothill grasslands, cismontane woodland, lower montane coniferous forest and yellow pine forest. Often found on dry, rocky slopes and soils and brushy areas. Can be very common after a fire. Found at elevations ranging from 459 to 6,299 feet. Blooming period is from May to July.	No	**Presumed Absent** No suitable habitat is present within the project site.
Centromadia pungens* ssp. *Laevis Smooth tarplant	Fed: None CA: None CNPS: 1B.1	Occurs in alkaline soils within chenopod scrub, meadows and seeps, playas, riparian woodland, and valley and foothill grassland habitats. Grows in elevation from 0 to 2,100 feet. Blooming period ranges from April to September.	No	**Presumed Absent** No suitable habitat is present within the project site.
Chloropyron maritimum* ssp. *Maritimum Salt marsh bird's-beak	Fed: **END** CA: **END** CNPS: 1B.2	Upper terraces and higher edges of coastal salt marshes where tidal inundation is periodic. Found at elevations ranging from 0 to 98 feet. Blooming period is from May to October.	No	**Presumed Absent** No suitable habitat is present within the project site. The project site occurs outside of the known elevation range for this species.
Chorizanthe leptotheca Penninsular spineflower	Fed: None CA: None CNPS: 4.2	Grows in chaparral and forest habitats in sandy or gravelly soils from sea level to 5,000 feet in elevation. Blooms from May to August.	No	**Presumed Absent** No suitable habitat is present within the project site.
Chorizanthe parryi* var. *parryi Parry's spineflower	Fed: None CA: None CNPS: 1B.1	Occurs on sandy and/or rocky soils in chaparral, coastal sage scrub, and sandy openings within alluvial washes and margins. Found at elevations ranging from 951 to 3,773 feet. Blooming period is from April to June.	No	**Presumed Absent** No suitable habitat is present within the project site.
Chorizanthe xanti* var. *leucotheca white-bracted spineflower	Fed: None CA: None CNPS: 1B.2	Grows in sandy to gravelly places in saltbush communities, coastal scrub, Mojavean desert scrub, pinyon-juniper and pine-oak woodlands. Blooms from April to June.	No	**Presumed Absent** No suitable habitat is present within the project site.
Convolvus simulans small-flowered morning-glory	Fed: None CA: None CNPS: 4.2	Found in northern coastal scrub, coastal sage scrub, and valley grassland communities. Blooms from March to July.	No	**Presumed Absent** No suitable habitat is present within the project site.
Cuscuta obtusiflora* var. *glandulosa Peruvian dodder	Fed: None CA: None CNPS: 2B.2	Grows in marshes and freshwater swamps. Often seen parasitizing other host plants by clinging to groundcover-type plants or climbing up other vines and tall vegetation. Blooms from July to October.	No	**Presumed Absent** No suitable habitat is present within the project site.
Deinandra paniculate paniculate tarplant	Fed: None CA: None CNPS: 4.2	Found in vernal pool margins, grasslands, open areas such as roadsides and in other disturbed soils inland from the coast. Blooms from May to November. Elevation range is sea level to 1,000 feet.		**Presumed Absent** No suitable habitat is present within the project site.

Scientific Name Common Name	**Status**	**Habitat**	**Observed On-site**	**Potential to Occur**
Dodecahema leptoceras slender-horned spineflower	Fed: **END** CA: **END** CNPS: 1B.1	Chaparral, coastal scrub (alluvial fan sage scrub). Flood deposited terraces and washes. Found at elevations ranging from 1,181 to 2,690 feet. Blooming period is from April to June.	No	**Presumed Absent** No suitable habitat is present within the project site.
Eriastrum densifolium* ssp. *sanctorum Santa Ana River woollystar	Fed: **END** CA: **END** CNPS: 1B.1	Found in sandy soil in association with mature alluvial scrub. Ideal habitat appears to be a terrace or bench that receives overbank deposits every 50 to 100 years. Cryptogamic crusts are frequently present in occupied areas. Found at elevations ranging from 299 to 2,001 feet. Blooming period is from April to September.	No	**Presumed Absent** No suitable habitat is present within the project site. The project site occurs outside of the known elevation range for this species.
Imperata brevifolia California satintail	Fed: None CA: None CNPS: 2B.1	Grows primarily in riparian habitats and has an affinity for moist soils, but can be found in chaparral, coastal scrub, Mojavean desert scrub, meadows and seeps. Found at elevations ranging from 0 to 3,986 feet. Blooming period is from September to May.	No	**Presumed Absent** No suitable habitat is present within the project site.
Juglans californica southern California black walnut	Fed: None CA: None CNPS: 4.2	Found in chaparral, cismontane woodland, coastal scrub, and riparian woodland habitats. Found at elevations ranging from 164 to 2,953 feet. Blooming period is from March to August.	No	**Presumed Absent** No suitable habitat is present within the project site.
Lepidium virginicum* var. *robinsonii Robinson's pepper-grass	Fed: None CA: None CNPS: 4.3	Found in chaparral and coastal sage scrub communities. Grows along roadsides, in bottomlands, gravelly and sandy shores, in waste grounds, stream banks, grassy meadows, dry flats, and stream beds. Blooms from January to July.	No	**Presumed Absent** No suitable habitat is present within the project site.
Malacothamnus parishii Parish's bush-mallow	Fed: None CA: None CNPS: 1A	Found only in and around San Bernadino. Thought to be extirpated from native habitat. Historically found in chaparral and coastal sage scrub communities. Grows at elevations ranging from 1,000 to 1,500 feet. Blooms from March to May.	No	**Presumed Absent** No suitable habitat is present within the project site.
Pseudoriontium cyathiferum Deep Canyon snapdragon	Fed: None CA: None CNPS: 2B.3	Found in rocky slopes and washes in desert or dry habitats below 2,650 feet in elevation. Blooms from January to April.	No	**Presumed Absent** No suitable habitat is present within the project site.
Ribes divaricatum* var. *parishii Parish's gooseberry	Fed: None CA: None CNPS: 1A	Grows in forests, woodlands, and in willow swales, riparian habitats, and coastal scrub communities along the West coast. Blooms from February to April.	No	**Presumed Absent** No suitable habitat is present within the project site.

CDFW SENSITIVE HABITATS				
Riversidian Alluvial Fan Sage Scrub	CDFW Sensitive Habitat	Occur within broad washes of sandy alluvial drainages that carry rainfall runoff sporadically in winter and spring but remain relatively dry through the remainder of the year. Is restricted to drainages and floodplains with very sandy substrates that have a dearth of decomposed plant material. These areas do not develop into riparian woodland or scrub due to the limited water resources and scouring by occasional floods.	No	**Absent**. This plant community was not observed on-site.
Southern Mixed Riparian Forest	CDFW Sensitive Habitat	Comprised of winter-deciduous trees that require water near the soil surface. Representative species include willow cottonwood, western sycamore, mule fat, stinging nettle, and wild grape.	No	**Absent**. This plant community was not observed on-site.
Southern Sycamore Alder Riparian Woodland	CDFW Sensitive Habitat	Occurs below 2,000 meters in elevation, sycamore and alder often occur along seasonally flooded banks; cottonwoods and willows are also often present. Poison oak, mugwort, elderberry and wild raspberry may be present in understory.	No	**Absent**. This plant community was not observed on-site.

U.S. Fish and Wildlife Service (USFWS) - Federal
END- Federal Endangered
THR- Federal Threatened

California Department of Fish and Wildlife (CDFW) - California
END- California Endangered
THR- California Threatened
CE - Candidate Endangered
FP- California Fully Protected
SSC- California Species of Concern
WL- Watch List

California Native Plant Society (CNPS)
California Rare Plant Rank
1A Plants Presumed Extirpated in California and Either Rare or Extinct Elsewhere
1B Plants Rare, Threatened, or Endangered in California and Elsewhere
2B Plants Rare, Threatened, or Endangered in California, but More Common Elsewhere
4 Plants of Limited Distribution – A Watch List

Threat Ranks
0.1- Seriously threatened in California
0.2- Moderately threatened in California
0.3- Not very threatened in California

Attachment E

Regulations

Special status species are native species that have been afforded special legal or management protection because of concern for their continued existence. There are several categories of protection at both federal and state levels, depending on the magnitude of threat to continued existence and existing knowledge of population levels.

Federal Regulations

Endangered Species Act of 1973

As defined within the Federal Endangered Species Act (FESA) of 1973, an endangered species is any animal or plant listed by regulation as being in danger of extinction throughout all or a significant portion of its geographical range. A threatened species is any animal or plant that is likely to become endangered within the foreseeable future throughout all or a significant portion of its geographical range. Without a special permit, federal law prohibits the "take" of any individuals or habitat of federally listed species. Under Section 9 of the FESA, take is defined as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct." The term "harm" has been clarified to include "any act which actually kills or injures fish or wildlife, and emphasizes that such acts may include significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife." The presence of any federally threatened or endangered species within a project area generally imposes severe constraints on development, particularly if development would result in "take" of the species or its habitat. Under the regulations of the FESA, the United States Fish and Wildlife Service (USFWS) may authorize "take" when it is incidental to, but not the purpose of, an otherwise lawful act.

Critical Habitat is designated for the survival and recovery of species listed as threatened or endangered under the ESA. Critical Habitat includes those areas occupied by the species, in which are found physical and biological features that are essential to the conservation of an FESA listed species and which may require special management considerations or protection. Critical Habitat may also include unoccupied habitat if it is determined that the unoccupied habitat is essential for the conservation of the species.

Whenever federal agencies authorize, fund, or carry out actions that may adversely modify or destroy Critical Habitat, they must consult with USFWS under Section 7 of the ESA. The designation of Critical Habitat does not affect private landowners, unless a project they are proposing uses federal funds, or requires federal authorization or permits (e.g., funding from the Federal Highway Administration or a permit from the U.S. Army Corps of Engineers (Corps)).

If the USFWS determines that Critical Habitat will be adversely modified or destroyed from a proposed action, the USFWS will develop reasonable and prudent alternatives in cooperation with the federal institution to ensure the purpose of the proposed action can be achieved without loss of Critical Habitat. If the action is not likely to adversely modify or destroy Critical Habitat, USFWS will include a statement in its biological opinion concerning any incidental take that may be authorized and specify terms and conditions to ensure the agency is in compliance with the opinion.

Migratory Bird Treaty Act

Pursuant to the Migratory Bird Treaty Act (MBTA) (16 U.S. Government Code [USC] 703) of 1918, as amended in 1972, federal law prohibits the taking of migratory birds or their nests or eggs (16 USC 703; 50 CFR 10, 21). The statute states:

> *Unless and except as permitted by regulations made as hereinafter provided in this subchapter, it shall be unlawful at any time, by any means or in any manner, to pursue, hunt, take, capture, kill, attempt to take, capture, or kill...any migratory bird, any part, nest, or egg of any such bird...included in the terms of the [Migratory Bird] conventions…*

The MBTA covers the taking of any nests or eggs of migratory birds, except as allowed by permit pursuant to 50 CFR, Part 21. Disturbances causing nest abandonment and/or loss of reproductive effort (i.e., killing or abandonment of eggs or young) may also be considered "take." This regulation seeks to protect migratory birds and active nests.

In 1972, the MBTA was amended to include protection for migratory birds of prey (e.g., raptors). Six families of raptors occurring in North America were included in the amendment: Accipitridae (kites, hawks, and eagles); Cathartidae (New World vultures); Falconidae (falcons and caracaras); Pandionidae (ospreys); Strigidae (typical owls); and Tytonidae (barn owls). The provisions of the 1972 amendment to the MBTA protects all species and subspecies of the families listed above. The MBTA protects over 800 species including geese, ducks, shorebirds, raptors, songbirds and many relatively common species.

State Regulations

California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA) provides for the protection of the environment within the State of California by establishing State policy to prevent significant, avoidable damage to the environment through the use of alternatives or mitigation measures for projects. It applies to actions directly undertaken, financed, or permitted by State lead agencies. If a project is determined to be subject to CEQA, the lead agency will be required to conduct an Initial Study (IS); if the IS determines that the project may have significant impacts on the environment, the lead agency will subsequently be required to write an Environmental Impact Report (EIR). A finding of non-significant effects will require either a Negative Declaration or a Mitigated Negative Declaration instead of an EIR. Section 15380 of the CEQA Guidelines independently defines "endangered" and "rare" species separately from the definitions of the California Endangered Species Act (CESA). Under CEQA, "endangered" species of plants or animals are defined as those whose survival and reproduction in the wild are in immediate jeopardy, while "rare" species are defined as those who are in such low numbers that they could become endangered if their environment worsens.

California Endangered Species Act (CESA)

In addition to federal laws, the state of California implements the CESA which is enforced by CDFW. The CESA program maintains a separate listing of species beyond the FESA, although the provisions of each act are similar.

State-listed threatened and endangered species are protected under provisions of the CESA. Activities that may result in "take" of individuals (defined in CESA as; "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill") are regulated by CDFW. Habitat degradation or modification is not included in the definition of "take" under CESA. Nonetheless, CDFW has interpreted "take" to include the destruction of nesting, denning, or foraging habitat necessary to maintain a viable breeding population of protected species.

The State of California considers an endangered species as one whose prospects of survival and reproduction are in immediate jeopardy. A threatened species is considered as one present in such small numbers throughout its range that it is likely to become an endangered species in the near future in the absence of special protection or management. A rare species is one that is considered present in such small numbers throughout its range that it may become endangered if its present environment worsens. State threatened and endangered species are fully protected against take, as defined above.

CDFW has also produced a species of special concern list to serve as a species watch list. Species on this list are either of limited distribution or their habitats have been reduced substantially, such that a threat to their populations may be imminent. Species of special concern may receive special attention during environmental review, but they do not have formal statutory protection. At the federal level, USFWS also uses the label species of concern, as an informal term that refers to species which might be in need of concentrated conservation actions. As the Species of Concern designated by USFWS do not receive formal legal protection, the use of the term does not necessarily ensure that the species will be proposed for listing as a threatened or endangered species.

Fish and Game Code

Fish and Game Code Sections 3503, 3503.5, 3511, and 3513 are applicable to natural resource management. For example, Section 3503 of the Code makes it unlawful to destroy any birds' nest or any birds' eggs that are protected under the MBTA. Further, any birds in the orders Falconiformes or Strigiformes (Birds of Prey, such as hawks, eagles, and owls) are protected under Section 3503.5 of the Fish and Game Code which makes it unlawful to take, possess, or destroy their nest or eggs. A consultation with CDFW may be required prior to the removal of any bird of prey nest that may occur on a project site. Section 3511 of the Fish and Game Code lists fully protected bird species, where the CDFW is unable to authorize the issuance of permits or licenses to take these species. Pertinent species that are State fully protected by the State include golden eagle (*Aquila chrysaetos*) and white-tailed kite (*Elanus leucurus*). Section 3513 of the Fish and Game Code makes it unlawful to take or possess any migratory nongame bird as designated in the MBTA or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA.

Native Plant Protection Act

Sections 1900–1913 of the Fish and Game Code were developed to preserve, protect, and enhance Rare and Endangered plants in the state of California. The act requires all state agencies to use their authority to carry out programs to conserve Endangered and Rare native plants. Provisions of the Native Plant Protection Act prohibit the taking of listed plants from the wild and require notification of the CDFW at

least ten days in advance of any change in land use which would adversely impact listed plants. This allows the CDFW to salvage listed plant species that would otherwise be destroyed.

California Native Plant Society Rare and Endangered Plant Species

Vascular plants listed as rare or endangered by the CNPS, but which have no designated status under FESA or CESA are defined as follows:

California Rare Plant Rank

1A- Plants Presumed Extirpated in California and either Rare or Extinct Elsewhere

1B- Plants Rare, Threatened, or Endangered in California and Elsewhere

2A- Plants Presumed Extirpated in California, But More Common Elsewhere

2B- Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere

3- Plants about Which More Information is Needed - A Review List

4- Plants of Limited Distribution - A Watch List

Threat Ranks

.1- Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)

.2- Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)

.3- Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known).

There are three key agencies that regulate activities within inland streams, wetlands, and riparian areas in California. The Corps Regulatory Branch regulates activities pursuant to Section 404 of the Federal Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Of the State agencies, the CDFG regulates activities under the Fish and Game Code Section 1600-1616, and the Regional Board regulates activities pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act.

Federal Regulations

Section 404 of the Clean Water Act

Since 1972, the Corps and U.S. Environmental Protection Agency (EPA) have jointly regulated the filling of "waters of the U.S.," including wetlands, pursuant to Section 404 of the Clean Water Act (CWA). The Corps has regulatory authority over the discharge of dredged or fill material into the waters of the United States under Section 404 of the CWA. The Corps and EPA define "fill material" to include any "material placed in waters of the United States where the material has the effect of: (i) replacing any portion of a water of the United States with dry land; or (ii) changing the bottom elevation of any portion of the waters of the United States." Examples include, but are not limited to, sand, rock, clay, construction debris, wood chips, and "materials used to create any structure or infrastructure in the waters of the United States." In order to further define the scope of waters protected under the CWA, the Corps and EPA published the Clean Water Rule on June 29, 2015. Pursuant to the Clean Water Rule, the term "*waters of the United States*" is defined as follows:

(i) All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide.

(ii) All interstate waters, including interstate wetlands[1].

(iii) The territorial seas.

(iv) All impoundments of waters otherwise defined as waters of the United States under the definition.

(v) All tributaries[2] of waters identified in paragraphs (i) through (iii) mentioned above.

(vi) All waters adjacent[3] to a water identified in paragraphs (i) through (v) mentioned above, including wetlands, ponds, lakes, oxbows, impoundments, and similar waters.

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1 The term *wetlands* means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

2 The terms *tributary* and *tributaries* each mean a water that contributes flow, either directly or through another water (including an impoundment identified in paragraph (iv) mentioned above), to a water identified in paragraphs (i) through (iii) mentioned above, that is characterized by the presence of the physical indicators of a bed and banks and an ordinary high water mark.

3 The term *adjacent* means bordering, contiguous, or neighboring a water identified in paragraphs (i) through (v) mentioned above, including waters separated by constructed dikes or barriers, natural river berms, beach dunes, and the like.

(vii) All prairie potholes, Carolina bays and Delmarva bays, Pocosins, western vernals pools, Texas coastal prairie wetlands, where they are determined, on a case-specific basis, to have a significant nexus to a water identified in paragraphs (i) through (iii) meantioned above.

(viii) All waters located within the 100-year floodplain of a water identified in paragraphs (i) through (iii) mentioned above and all waters located within 4,000 feet of the high tide line or ordinary high water mark of a water identified in paragraphs (i) through (v) mentioned above, where they are determined on a case-specific basis to have a significant nexus to a waters identified in paragraphs (i) through (iii) mentioned above.

The following features are not defined as "waters of the United States" even when they meet the terms of paragraphs (iv) through (viii) mentioned above:

(i) Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the Clean Water Act.

(ii) Prior converted cropland.

(iii) The following ditches:

(A) Ditches with ephemeral flow that are not a relocated tributary or excavated in a tributary.
(B) Ditches with intermittent flow that are not a relocated tributary, excavated in a tributary, or drain wetlands.
(C) Ditches that do not flow, either directly or through another water, into a water of the United States as identified in paragraphs (i) through (iii) of the previous section.

(iv) The following features:

(A) Artificially irrigated areas that would revert to dry land should application of water to that area cease;
(B) Artificial, constructed lakes and ponds created in dry land such as farm and stock watering ponds, irrigation ponds, settling basins, fields flooded for rice growing, log cleaning ponds, or cooling ponds;
(C) Artificial reflecting pools or swimming pools created in dry land;
(D) Small ornamental waters created in dry land;
(E) Water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water;
(F) Erosional features, including gullies, rills, and other ephemeral features that do not meet the definition of a tributary, non-wetland swales, and lawfully constructed grassed waterways; and
(G) Puddles.

(v) Groundwater, including groundwater drained through subsurface drainage systems.

(vi) Stormwater control features constructed to convey, treat, or store stormwater that are created in dry land.

(vii) Wastewater recycling structures constructed in dry land; detention and retention basins built for wastewater recycling; groundwater recharge basins; percolation ponds built for wastewater recycling; and water distributary structures built for wastewater recycling.

Section 401 of the Clean Water Act

Pursuant to Section 401 of the CWA, any applicant for a federal license or permit to conduct any activity which may result in any discharge to waters of the United States must provide certification from the State or Indian tribe in which the discharge originates. This certification provides for the protection of the physical, chemical, and biological integrity of waters, addresses impacts to water quality that may result from issuance of federal permits, and helps insure that federal actions will not violate water quality standards of the State or Indian tribe. In California, there are nine Regional Water Quality Control Boards (Regional Board) that issue or deny certification for discharges to waters of the United States and waters of the State, including wetlands, within their geographical jurisdiction. The State Water Resources Control Board assumed this responsibility when a project has the potential to result in the discharge to waters within multiple Regional Boards.

State Regulations

Fish and Game Code

Fish and Game Code Sections 1600 et. seq. establishes a fee-based process to ensure that projects conducted in and around lakes, rivers, or streams do not adversely impact fish and wildlife resources, or, when adverse impacts cannot be avoided, ensures that adequate mitigation and/or compensation is provided.

Fish and Game Code Section 1602 requires any person, state, or local governmental agency or public utility to notify the CDFW before beginning any activity that will do one or more of the following:

(1) substantially obstruct or divert the natural flow of a river, stream, or lake;
(2) substantially change or use any material from the bed, channel, or bank of a river, stream, or lake; or
(3) deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into a river, stream, or lake.

Fish and Game Code Section 1602 applies to all perennial, intermittent, and ephemeral rivers, streams, and lakes in the State. CDFW's regulatory authority extends to include riparian habitat (including wetlands) supported by a river, stream, or lake regardless of the presence or absence of hydric soils and saturated soil conditions. Generally, the CDFW takes jurisdiction to the top of bank of the stream or to the outer limit of the adjacent riparian vegetation (outer drip line), whichever is greater. Notification is generally required for any project that will take place in or in the vicinity of a river, stream, lake, or their tributaries. This includes rivers or streams that flow at least periodically or permanently through a bed or channel with banks that support fish or other aquatic life and watercourses having a surface or subsurface flow that support or have supported riparian vegetation. A Section 1602 Streambed Alteration Agreement would be required if impacts to identified CDFW jurisdictional areas occur.

Porter Cologne Act

The California *Porter-Cologne Water Quality Control Act* gives the State very broad authority to regulate waters of the State, which are defined as any surface water or groundwater, including saline waters. The Porter-Cologne Act has become an important tool in the post SWANCC and Rapanos regulatory environment, with respect to the state's authority over isolated and insignificant waters. Generally, any person proposing to discharge waste into a water body that could affect its water quality must file a Report of Waste Discharge in the event that there is no Section 404/401 nexus. Although "waste" is partially defined as any waste substance associated with human habitation, the Regional Board also interprets this to include fill discharged into water bodies.

Appendix B2

Jurisdictional Delineation

MEINES STREET AND PALM AVENUE

CITY OF HIGHLAND, SAN BERNARDINO COUNTY, CALIFORNIA

DELINEATION OF STATE AND FEDERAL JURISDICTIONAL WATERS

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May 2023

MEINES STREET AND PALM AVENUE

CITY OF HIGHLAND, SAN BERNARDINO COUNTY, CALIFORNIA

DELINEATION OF STATE AND FEDERAL JURISDICTIONAL WATERS

The undersigned certify that the statements furnished in this report and exhibits present data and information required for this biological evaluation, and the facts, statements, and information presented is a complete and accurate account of the findings and conclusions to the best of our knowledge and beliefs.

Travis J. McGill
Director

Thomas J. McGill, Ph.D.
Managing Director

May 2023

Executive Summary

ELMT Consulting (ELMT) has prepared this Delineation of State and Federal Jurisdictional report for the Meines Street and Palm Avenue Project (project) located in the City of Highland, San Bernardino County, California. The jurisdictional delineation documents the regulatory authority of the U.S. Army Corps of Engineers (Corps), the Regional Water Quality Control Board (Regional Board), and the California Department of Fish and Wildlife (CDFW) pursuant to Section 401 and 404 of the Federal Clean Water Act (CWA), the California Porter-Cologne Water Quality Control Act, and Sections 1600 *et. seq.* of the California Fish and Game Code.[1]

One (1) drainage feature (City Creek), a channelized potion of City Creek, was observed along the northern boundary of the project site, outside of the project footprint, during the field delineation. City Creek generally flows in an east to west direction, bordering the northern boundary of the project site. City Creek originates in the San Bernardino Mountains to the north of the site and flows roughly south and southeastward before aligning with the northern boundary of the site at Palm Avenue and leaving site adjacency at the northeast corner of the site. City Creek conveys surface flows during storm event and from urban runoff. City Creek flows westward past San Bernardino International Airport before converging with East Twin Creek, which is ultimately tributary to the Santa Ana River. Therefore, the City Creek will qualify as waters of the United States and fall under the regulatory authority of the Corps. Placement of fill and/ or alteration within this jurisdictional area is subject to Corps, Regional Board, and CDFW jurisdiction and approval.

As part of the project, a storm drain outlet is proposed to be constructed along the southern bank of the channel. The storm drain outlet is proposed to be installed above the OHWM and thus would be exempt from having to obtain regulatory approvals from the Corps and Regional Board. Further, the storm drain outlet would be installed outside the jurisdictional boundary of CDFW. The storm drain outlet is not expected to result in any appreciable increase in discharge into City Creek. There should be no impacts to downstream habitats.

If any impacts occur to the on-site drainage features, the project applicant must obtain the following regulatory approvals prior to impacts occurring within the identified jurisdictional areas: Corps CWA Section 404 Permit; Regional Board CWA Section 401 Water Quality Certification; and CDFW Section 1602 Streambed Alteration Agreement (SAA). Refer to Sections 1-7 for a detailed analysis of site conditions and regulatory requirements.

[1] The field surveys for this jurisdictional delineation were conducted on June 24, 2021 pursuant to the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0* (Corps 2008); and *Minimum Standards for Acceptance of Aquatic Resources Delineation Reports* (Corps 2017); *The MESA Field Guide: Mapping Episodic Stream Activity* (CDFW 2014); and a *Review of Stream Processes and Forms in Dryland Watersheds* (CDFW 2010).

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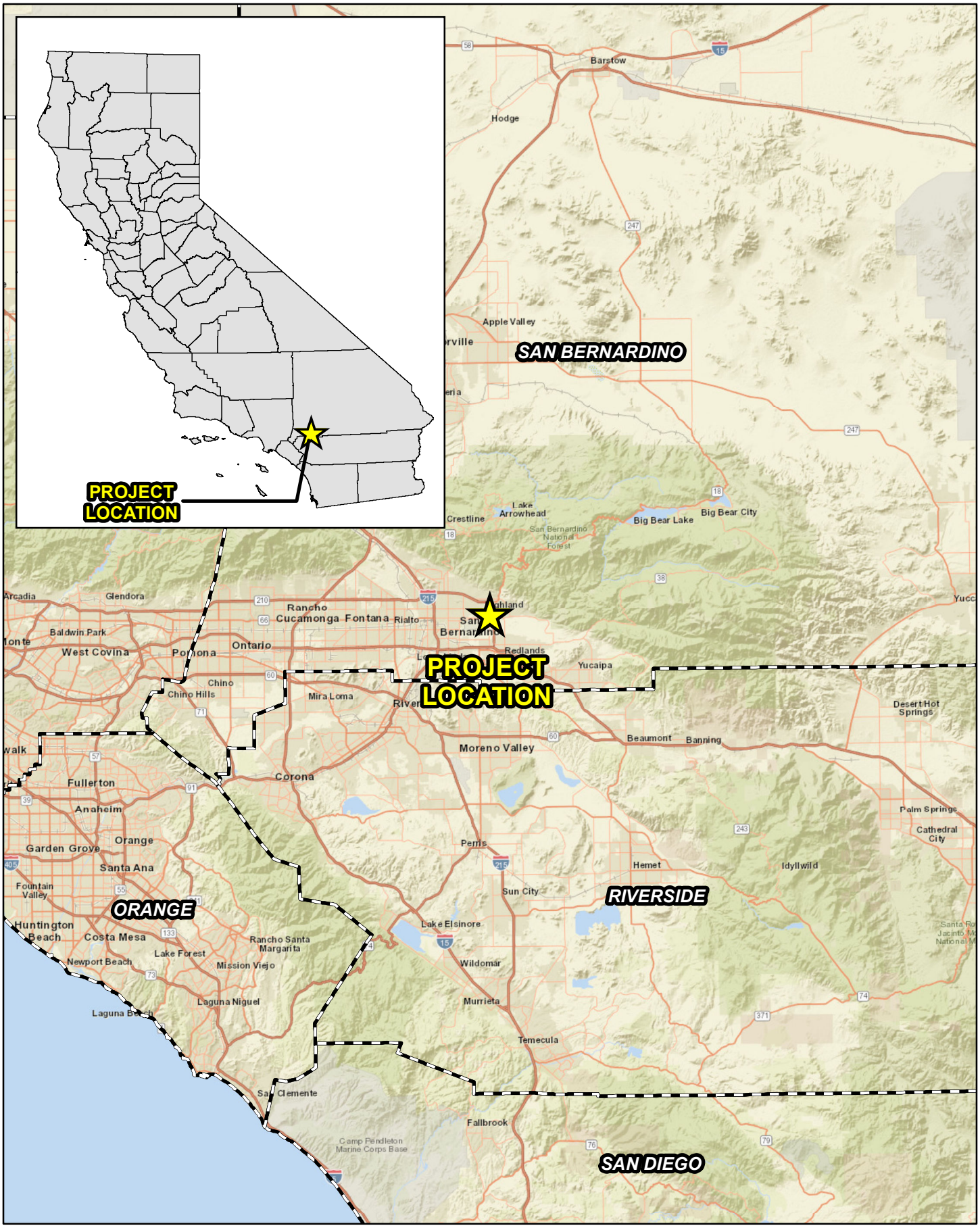
Section 1 Introduction

This delineation has been prepared for the proposed project located at the northwest corner of the intersection of Meines Street and Palm Avenue (project site, project) order to document the jurisdictional authority of the U.S. Army Corps of Engineers' (Corps), the Regional Water Quality Control Board (Regional Board), and the California Department of Fish and Wildlife (CDFW) pursuant to Section 401 and 404 of the Federal Clean Water Act (CWA), the California Porter-Cologne Water Quality Control Act, and Sections 1600 *et seq.* of the California Fish and Game Code. The analysis presented in this report is supported by a field survey of site conditions conducted on May 8, 2023.

This jurisdictional delineation explains the methodology undertaken by ELMT Consulting (ELMT) to define the regulatory authority of the aforementioned regulatory agencies and documents the findings made by ELMT. This report presents our best effort at documenting the jurisdictional boundaries using the most up-to-date regulations, written policy, and guidance from the regulatory agencies. Ultimately the regulatory agencies make the final determination of jurisdictional boundaries.

1.1 PROJECT LOCATION

The project site is generally located east of Interstate 215, north Interstate 10, and south and west of State Route 210 in the City of Highland, San Bernardino County, California. The site is depicted on the Redlands quadrangle of the United States Geological Survey's (USGS) 7.5-minute map series within Section 5, Township 1 South, Range 3 West. Specifically, the site is bounded to the east by Palm Avenue, to the south by Meines Street, and lies east of Central Avenue and south of 9th Street within Assessor Parcel Numbers (APN) 1192-601-01, -05, -07, -09; 621-02, -03, -04, -05, -06, -07, -08, -09, -10, -20, -21, -22, and -23. Refer to Exhibits 1-3 in Attachment A.



MEINES AND PALM PROJEC

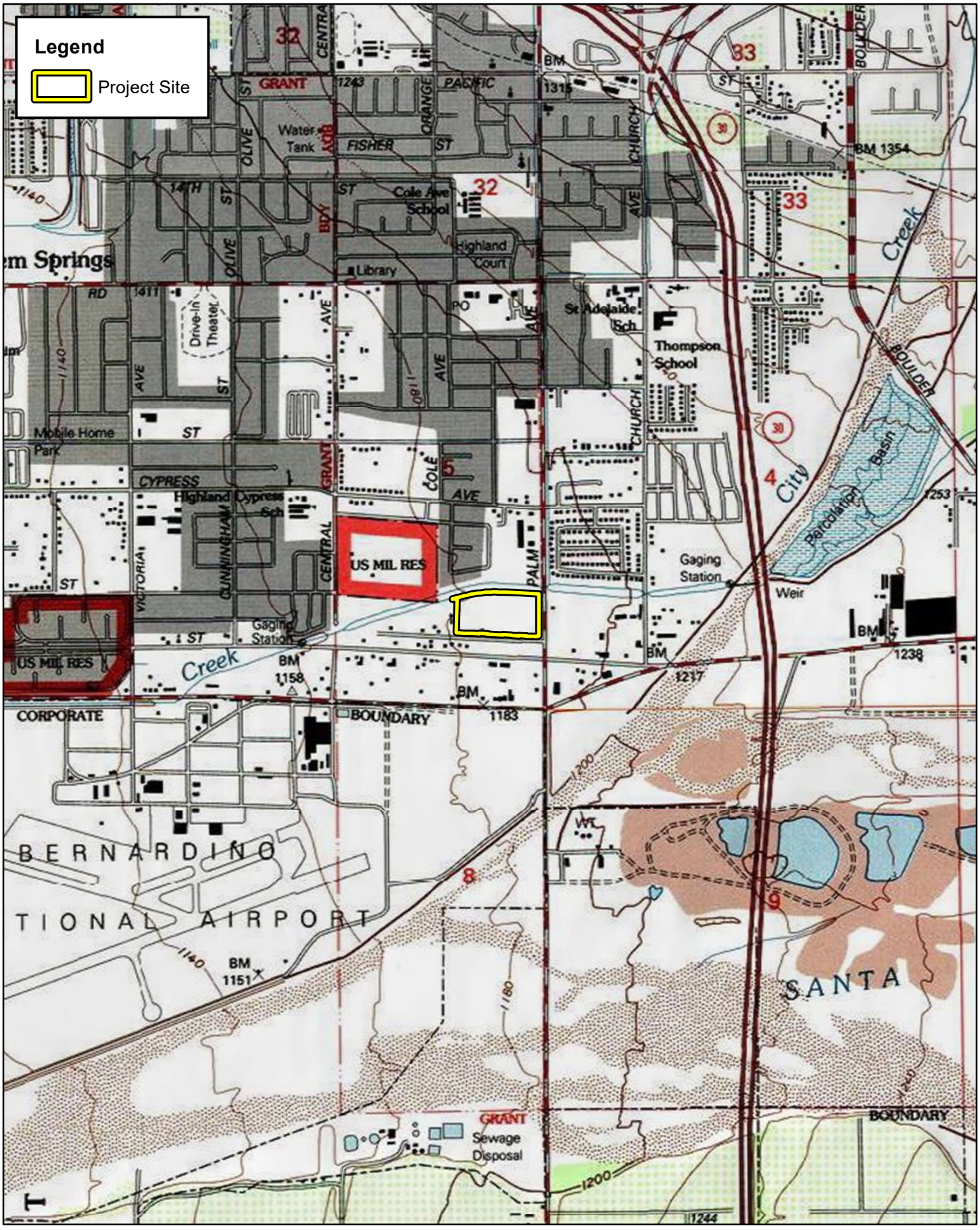
ELMT CONSULTING

0 2.5 5 10 Miles

Source: World Street Map, San Bernardino County

Regional Vicinity

Exhibit 1



MEINES AND PALM PROJECT

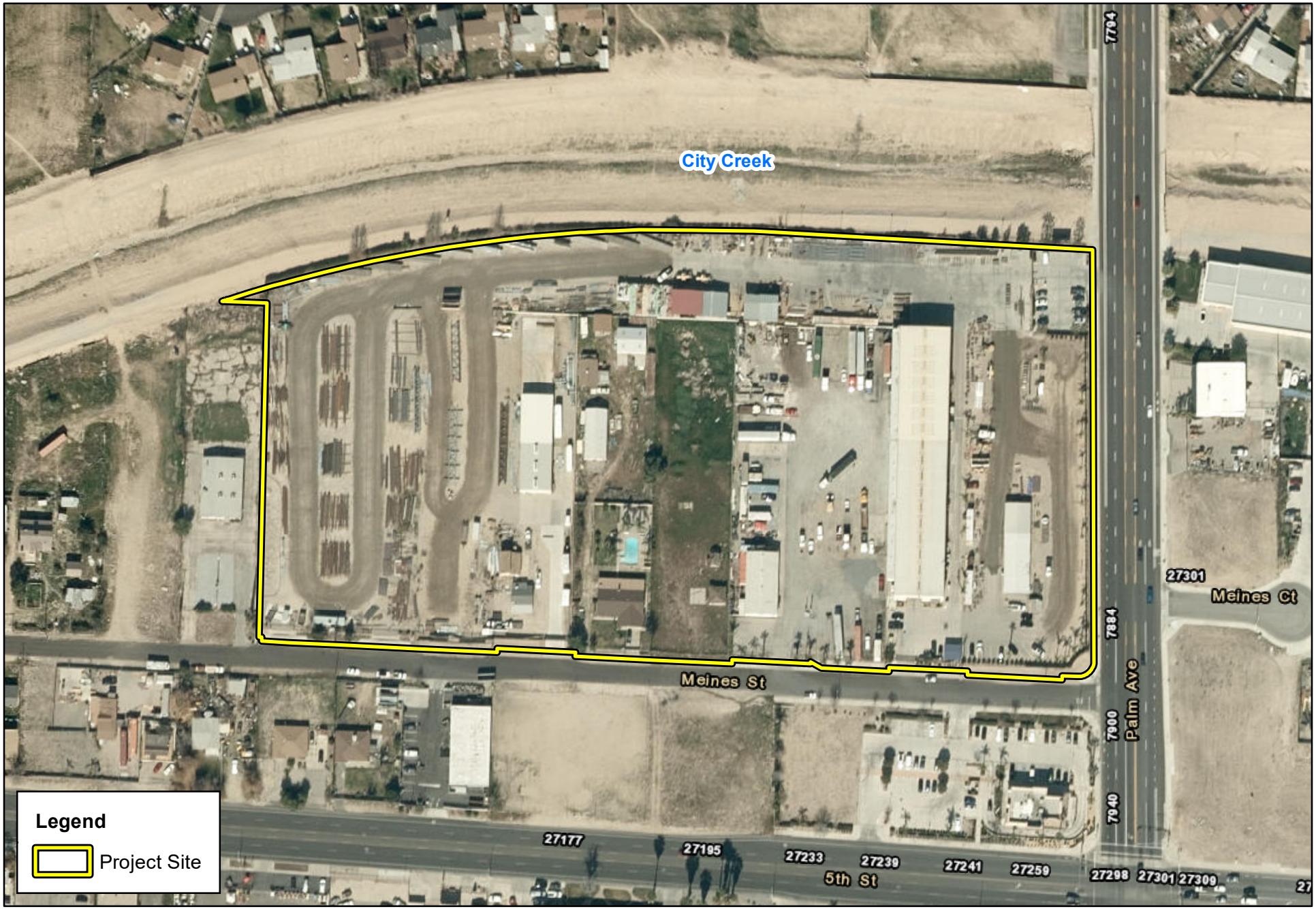
ELMT CONSULTING

0 1,000 2,000 4,000 Feet

Source: USA Topographic Map, San Bernardino County

Site Vicinity

Exhibit 2



MEINES AND PALM PROJECT

ELMT CONSULTING

0 125 250 500 Feet

Source: ESRI Aerial Imagery, San Bernardino County

Project Site

Exhibit 3

Section 2 Regulations

There are three key agencies that regulate activities within inland streams, wetlands, and riparian areas in California. The Corps Regulatory Division regulates activities pursuant to Section 404 of the CWA, Section 10 of the Rivers and Harbors Act, and Section 103 of the Marine Protection, Research, and Sanctuaries Act. The Regional Board regulates activities pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act and the CDFW regulates activities under Sections 1600 *et seq*. of the California Fish and Game Code.

2.1 U.S. ARMY CORPS OF ENGINEERS

Since 1972, the Corps and U.S. Environmental Protection Agency (EPA) have jointly regulated the discharge of dredged or fill material into waters of the United States, including wetlands, pursuant to Section 404 of the CWA. The Corps and EPA define "fill material" to include any "material placed in waters of the United States where the material has the effect of: (i) replacing any portion of a water of the United States with dry land; or (ii) changing the bottom elevation of any portion of the waters of the United States." Examples include, but are not limited to, sand, rock, clay, construction debris, wood chips, and "materials used to create any structure or infrastructure in the waters of the United States."

On April 21, 2020, the Environmental Protected Agency and Corps published a final rule defining the scope of waters subject to federal regulation under the Clean Water Act ("Navigable Waters Protection Rule"). The rule codifies the long-standing exclusion of "water-filled depressions constructed or excavated upland or in non-jurisdictional waters incidental to mining or construction activity, and pits excavated in upland or in non-jurisdictional waters for the purpose of obtaining fill, sand, or gravel." (33 CFR 328.3(b)(9); *see also* 85 FR 22252, 22323 (Apr. 21, 2020).)

On December 30, 2022, the agencies announced the final "Revised Definition of 'Waters of the United States'" rule. This rule also considers the best available science and extensive public comment to establish a definition of "waters of the United States" that supports public health, environmental protection, agricultural activity, and economic growth. In accordance with the Revised Definition of "Waters of the United States" (March 20, 2023), "waters of the United Sates" are defined as follows:

> The ''waters of the United States'' are defined in paragraph (a) of this rule:
> (1) traditional navigable waters, the territorial seas, and interstate waters;
> (2) impoundments of ''waters of the United States'';
> (3) tributaries to traditional navigable waters, the territorial seas, interstate waters, or impoundments when the tributaries meet either the relatively permanent standard or the significant nexus standard (''jurisdictional tributaries'');
> (4) wetlands adjacent to traditional navigable waters; wetlands adjacent to and with a continuous surface connection to relatively permanent paragraph impoundments or to jurisdictional tributaries when the jurisdictional tributaries meet the relatively permanent standard; and wetlands adjacent to impoundments or jurisdictional tributaries when the wetlands meet the significant nexus standard (''jurisdictional adjacent wetlands''); and

(5) intrastate lakes and ponds, streams, or wetlands not identified in (1) through (4) above that meet either the relatively permanent standard or the significant nexus standard.

The ‘‘relatively permanent standard’’ means relatively permanent, standing or continuously flowing waters connected to traditional navigable waters, and waters with a continuous surface connection to such relatively permanent waters or to traditional navigable waters. The ‘‘significant nexus standard’’ means waters that, either alone or in combination with similarly situated waters in the region, significantly affect the chemical, physical, or biological integrity of traditional navigable waters, the territorial seas, or interstate waters.

2.2 REGIONAL WATER QUALITY CONTROL BOARD

Pursuant to Section 401 of the CWA, any applicant for a federal license or permit to conduct any activity which may result in any discharge to waters of the United States must provide certification from the State or Indian tribe in which the discharge originates. This certification provides for the protection of the physical, chemical, and biological integrity of waters, addresses impacts to water quality that may result from issuance of federal permits and helps insure that federal actions will not violate water quality standards of the State or Indian tribe. In California, there are nine Regional Boards that issue or deny certification for discharges to waters of the United States and waters of the State, including wetlands, within their geographical jurisdiction. The State Water Resources Control Board (SWRCB) assumes this responsibility when a project has the potential to result in the discharge to waters within multiple Regional Boards.

Additionally, the California Porter-Cologne Water Quality Control Act gives the State very broad authority to regulate waters of the State, which are defined as any surface water or groundwater, including saline waters. The Porter-Cologne Water Quality Control Act has become an important tool post *Solid Waste Agency of Northern Cook County vs. United States Corps of Engineers* [2] (SWANCC) and *Rapanos v. United States* [3] (Rapanos) court cases with respect to the State’s regulatory authority over isolated and insignificant waters. Generally, any applicant proposing to discharge waste into a water body must file a Report of Waste Discharge in the event that there is no Section 404/401 nexus. Although “waste” is partially defined as any waste substance associated with human habitation, the Regional Board also interprets this to include discharge of dredged and fill material into water bodies.

Under the State Water Resources Control Board Sate Wetland Definition, an area is a wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area’s vegetation is dominated by hydrophytes or the area lacks vegetation.

[2] Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers, 531 U.S. 159 (2001)
[3] Rapanos v. United States, 547 U.S. 715 (2006)

2.3 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

Sections 1600 *et seq.* of the California Fish and Game Code establishes a fee-based process to ensure that projects conducted in and around lakes, rivers, or streams do not substantially adversely impact fish and wildlife resources, or, when adverse impacts cannot be avoided, ensures that adequate mitigation and/or compensation is provided. Pursuant to Section 1602 of the California Fish and Game Code, a notification must be submitted to the CDFW for any activity that will divert or obstruct the natural flow or alter the bed, channel, or bank (which may include associated biological resources) of a river or stream or use material from a streambed. One CDFW guidance document, although not a formally adopted rule or policy, requires notification for activities taking place within rivers or streams that flow perennially or episodically and that are defined by the area in which surface water currently flows, or has flowed, over a given course during the historic hydrologic regime, and where the width of its course can reasonably be identified by physical and biological indicators. If the project will not "substantially adversely affect an existing fish or wildlife resource," following notification to CDFW, the project may commence without an agreement with CDFW. (Fish & G. Code, § 1602(a)(4)(A)(i).)

Section 3 Methodology

The analysis presented in this report is supported by field surveys and verification of site conditions conducted on May 8, 2023. ELMT conducted a field delineation to determine the jurisdictional limits of "waters of the State" and jurisdictional streambed (including potential wetlands), located within the boundaries of the project site. While in the field, jurisdictional features were recorded on an aerial base map at a scale of 1" = 50' using topographic contours and visible landmarks as guidelines. Data points were obtained with a Garmin Map62 Global Positioning System to record and identify specific widths for ordinary high water mark (OHWM) indicators and the locations of photographs, soil pits, and other pertinent jurisdictional features, if present. This data was then transferred as a .shp file and added to the Project's jurisdictional exhibits. The jurisdictional exhibits were prepared using ESRI ArcInfo Version 10 software.

3.1 WATERS OF THE UNITED STATES

In the absence of adjacent wetlands, the limits of the Corps jurisdiction in non-tidal waters extend to the OHWM, which is defined as " . . . *that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.*"[4] Indicators of an OHWM are defined in *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (Corps 2008). An OHWM can be determined by the observation of a natural line impressed on the bank; shelving; changes in the character of the soil; destruction of terrestrial vegetation; presence of litter and debris; wracking; vegetation matted down, bent, or absent; sediment sorting; leaf litter disturbed or washed away; scour; deposition; multiple observed flow events; bed and banks; water staining; and/or change in plant community. The Regional Board shares the Corps' jurisdictional methodology, unless SWANCC or Rapanos conditions are present. In the latter case, the Regional Board considers such drainage features to be jurisdictional waters of the State.

Pursuant to the Corps Wetland Delineation Manual (Corps 1987), the identification of wetlands is based on a three-parameter approach involving indicators of hydrophytic vegetation, hydric soils, and wetland hydrology. In order to qualify as a wetland, a feature must exhibit at least minimal characteristics within each of these three parameters. It should also be noted that both the Regional Board and CDFW follow the methods utilized by the Corps to identify wetlands. For this project location, Corps jurisdictional wetlands are delineated using the methods outlined in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0* (Corps 2008).

[4] CWA regulations 33 CFR §328.3(e).

3.2 WATERS OF THE STATE

3.2.1 REGIONAL WATER QUALITY CONTROL BOARD

The California *Porter-Cologne Water Quality Control Act* gives the Regional Board very broad authority to regulate waters of the State, which are defined as any surface water or groundwater, including saline waters. The Regional Board shares the Corps' methodology for delineating the limits of jurisdiction based on the identification of OHWM indicators and utilizing the three parameter approach for wetlands.

3.2.2 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

Sections 1600 *et seq*. of the California Fish and Game Code applies to all perennial, intermittent, and ephemeral rivers, streams, and lakes in the State. Generally, the CDFW's jurisdictional limit is not defined by a specific flow event, nor by the presence of OHWM indicators or the path of surface water as this path might vary seasonally. Instead, CDFW's jurisdictional limit is based on the topography or elevation of land that confines surface water to a definite course when the surface water rises to its highest point. Further, the CDFW's jurisdictional limit extends to include any habitat (e.g. riparian), including wetlands and vernal pools, supported by a river, stream, or lake regardless of the presence or absence of hydric soils and saturated soil conditions. For this project location, CDFW jurisdictional limits were delineated using the methods outlined in the *MESA Field Guide* (Brady, III and Vyverberg 2013) and *A Review of Stream Processes and Forms in Dryland Watersheds* (Vyverberg 2010), which were developed to provide guidance on the methods utilized to describe and delineate episodic streams within the inland deserts region of southern California.

Section 4 Literature Review

ELMT conducted a thorough review of relevant literature and materials to preliminarily identify areas that may fall under the jurisdiction of the regulatory agencies. A summary of materials utilized during ELMT's literature review is provided below and in Appendix A. In addition, refer to Section 8 for a complete list of references used throughout the course of this delineation.

4.1 WATERSHED REVIEW

The project site is located within the Santa Ana River Watershed (HUC 18070203). The Santa Ana River watershed is located in southern California, south and east of the City of Los Angeles. The watershed includes much of Orange County, the northwestern corner of Riverside County, the southwestern corner of San Bernardino County, and a small portion of Los Angeles County. The watershed is bounded on the south by the Santa Margarita watershed, on the east by the Salton Sea and Southern Mojave watersheds, and on the north/west by the Mojave and San Gabriel watersheds. The watershed is approximately 2,800 square miles in area.

The Santa Ana River Watershed is located in the Peninsular Ranges and Transverse Ranges Geomorphic Provinces of Southern California (California Geological Survey Note 36). The highest elevations (upper reaches) of the watershed occur in the San Bernardino Mountains (San Gorgonio Peak – 11,485 feet in elevation), eastern San Gabriel Mountains (Transverse Ranges Province; Mt. Baldy – 10,080 feet in elevation), and San Jacinto Mountains (Peninsular Ranges Province, Mt. San Jacinto – 10,804 feet in elevation). Further downstream, the Santa Ana Mountains and the Chino Hills form a topographic high before the river flows into the Coastal Plain (in Orange County) and into the Pacific Ocean. Primary slope direction is northeast to southwest, with secondary slopes controlled by local topography.

This watershed is in an arid region, and therefore has little natural perennial surface water. Surface waters start in the upper erosion zone of the watershed, primarily in the San Bernardino and San Gabriel Mountains. This upper zone has the highest gradient and soils/geology that do not allow large quantities of percolation of surface water into the ground. Flows consist mainly of snowmelt and storm runoff from the lightly developed San Bernardino National Forest; this water is generally high quality at this point. In this zone, the Santa Ana River is generally confined in its lateral movement, contained by the slope in the mountainous regions. In the upper valley, flows from the Seven Oaks Dam to the City of San Bernardino consist mainly of storm flows, flows from San Timoteo Creek, and groundwater that is rising due to local geological conditions. From the City of San Bernardino to the City of Riverside, the river flows perennially, and it includes treated discharges from wastewater treatment plants. From the City of Riverside to the recharge basins below Imperial Highway, river flow consists of highly treated wastewater discharges, urban runoff, irrigation runoff, and groundwater forced to the surface by shallow/rising bedrock. Near Corona, the river cuts through the Santa Ana Mountains and the Puente-Chino Hills. The river then flows into the Orange County Coastal Plain; the channel lessens and the gradient decreases. In a natural environment, a river in this area would have a much wider channel, increased meandering, and increased sediment build-up. However, much of the Santa Ana River channel in this area has been contained in concrete-lined

channels, which modifies the flow regime and sediment deposition environment. The only major tributary of the Santa Ana River in Orange County is Santiago Creek, which joins the river in the City of Santa Ana. There is only one natural freshwater lake of any size – Lake Elsinore. A variety of water storage reservoirs (Lake Perris, Lake Mathews, and Big Bear Lake) and Flood Control areas (Prado Dam area and Seven Oaks Dam area) have been created to hold surface water.

4.2 LOCAL CLIMATE

San Bernardino County is characterized by cool winter temperatures and warm summer temperatures, with rainfall occurring almost entirely in the winter. Relative to other areas in Southern California, winters are colder with chilly to cold morning temperatures common. Climatological data obtained for the nearby City of Fontana indicates the annual precipitation averages 14.77 inches per year. Almost all of the precipitation occurs in the months between November and March, with hardly any occurring in July. The wettest month is March, with a monthly average total precipitation of 3.49 inches. The average maximum and minimum temperatures for the region are 80- and 53-degrees Fahrenheit (°F) respectively with July and August (monthly average 95° F) being the hottest months and December (monthly average 44°F) being the coldest. Temperatures during the site visit were in the low-70s (°F) with clear skies.

4.3 USGS TOPOGRAPHIC QUADRANGLE

The project site is depicted on the Redlands quadrangle of the United States Geological Survey's (USGS) 7.5-minute topographic map series within Section 5, Township 1 South, Range 3 West. According to the topographic map, the project site consists entirely of developed land along a channelized portion of City Creek.

On-site elevation ranges from approximately 1,180 to 1,196 feet above mean sea level and the site generally slopes from east to west. On-site topography is relatively flat with no noticeable topographic relief.

4.4 AERIAL PHOTOGRAPH

Prior to conducting the field delineation, ELMT reviewed current and historical aerial photographs (1985-2021) of the project as available from Google Earth Pro Imaging. Aerial photographs can be useful during the delineation process, as they often indicate the presence of drainage features and riverine habitat within the boundaries of the project site, if any.

The project site occurs in an area that historically supported agricultural land uses have been gradually replaced by industrialization and urbanization. A channelized portion of City Creek parallels the northern boundary of the project site, and land use in the vicinity of the site generally consists of industrial and commercial development to the south of the creek, and residential, commercial, and institutional development to the norther of the creek. The site is bounded to the west, south, and east by industrial and commercial developments, and to the north by City Creek with residential development and undeveloped, vacant land beyond.

The project site itself supports industrial and residential developments. The entirety of the site has been subject to several decades of anthropogenic disturbances associated with historic agricultural land uses,

grading activities, flood control infrastructure, and on-site and surrounding development. Historic aerials show these activities have been ongoing since at least 1938. The portion of City Creek that parallels the northern boundary of the site was channelized between 1959 and 1966.

4.5 SOILS

On-site and adjoining soils were researched prior to the field visits using the U.S. Department of Agriculture National Resources Conservation Service and Soil Survey for Western Riverside Area, California. Soil surveys furnish soil maps and interpretations originally needed in providing technical assistance to farmers and ranchers; in guiding other decisions about soil selection, use and management; and in planning, research and disseminating the results of the research. In addition, soil surveys are now heavily utilized in order to obtain soil information with respect to potential wetland environments and jurisdictional areas (i.e., soil characteristics, drainage, and color). Based on the NRCS USDA Web Soil Survey, the project site is historically underlain by Tujunga gravelly loamy sand (0 to 9 percent slopes) and Psamments, Fluvents and Frequently flooded soils (Exhibit 4, *Soils*).

4.6 HYDRIC SOILS LIST OF CALIFORNIA

ELMT reviewed the USDA NRCS Hydric Soils List of California in an effort to verify whether on-site soils are considered to be hydric[5]. It should be noted that lists of hydric soils along with soil survey maps provide off-site ancillary tools to assist in wetland determinations, but they are not a substitute for field investigations. The presence of hydric soils is initially investigated by comparing the mapped soil series for the site to the County list of hydric soils. According to the hydric soils list, Tujunga gravelly loamy sand (0 to 9 percent slopes) and Psamments, Fluvents and Frequently flooded soils have been listed as hydric in San Bernardino County Southwestern Part.

4.7 NATIONAL WETLANDS INVENTORY

The USFWS NWI and the USGS National Hydrography Dataset were reviewed to determine if any blueline streams or riverine resources have been documented within or immediate surrounding the project site. Based on this review, one (1) riverine feature is mapped as occurring adjacent to the northern boundary of the project site. This feature correlates with a channelized portion of City Creek. Refer to Appendix A, *Documentation*.

4.8 FLOOD ZONE

The Federal Emergency Management Act (FEMA) website was searched for flood data for the project site. Based on Flood Insurance Rate Map No. 06071C8702H the entire project site is located within Zone X – areas with reduced flood risk due to levee. Adjacent portions of City Creek are located within Zone AE – Regulatory Floodway. Refer to Appendix A, *Documentation*.

[5] A hydric soil is a soil that formed under conditions of saturation, flooding or ponding long enough during the growing season to develop anaerobic conditions in the upper part.

MEINES AND PALM PROJECT

ELMT CONSULTING

0 125 250 500 Feet

Source: ESRI Aerial Imagery, Soil Survey Geographic Database, San Bernardino County

Soils

Exhibit 4

Section 5 Site Conditions

ELMT biologist Jacob H. Lloyd Davies conducted a field delineation on May 8, 2023, to verify existing site conditions and document the extent of potential jurisdictional areas within the boundaries of the project site. ELMT field staff encountered no limitations during the field delineation. Refer to Appendix B for representative photographs taken throughout the project site.

5.1 JURISDICTIONAL FEATURES

5.1.1 DRAINAGE FEATURES

ELMT carefully assessed the site for depressions, inundation, presence of hydrophytic vegetation, staining, cracked soil, ponding, and indicators of active surface flow and corresponding physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris. Suspected jurisdictional areas were checked for the presence of definable channels, soils, and hydrology.

City Creek

One (1) drainage feature (City Creek), a channelized potion of City Creek, was observed along the northern boundary of the project site, outside of the project footprint, during the field delineation (refer to Exhibit 5, *Jurisdictional Areas*). City Creek generally flows in an east to west direction, bordering the northern boundary of the project site. City Creek originates in the San Bernardino Mountains to the north of the site and flows roughly south and southeastward before aligning with the northern boundary of the site at Palm Avenue and leaving site adjacency at the northeast corner of the site.

Surface water was present within City Creek near the culverts at Palm Avenue. Evidence of an OHWM within on-site and adjacent portions of City Creek was observed via scour, changes in substrate, shelving, and lack of vegetation. The OHWM within City Creek ranged from approximately 10-20 feet in width throughout the length. In general, the channelized portion of City Creek conveys surface flows during storm event and from urban runoff. City Creek flows westward past San Bernardino International Airport before converging with East Twin Creek, which is ultimately tributary to the Santa Ana River.

In-channel vegetation consisted of non-native weedy plant species such as oats (*Avena barbata*), red brome (*Bromus rubens*), hairy sunflower (*Helianthus annuus*), tropical horseweed (*Erigeron sumatrensis*), and Crete weed (*Hedypnois rhagadioloides*). No riparian vegetation is present within portions of City Creek that occur within or adjacent to the proposed storm drain outlet.

5.1.2 WETLAND FEATURES

In order to qualify as a wetland, a feature must exhibit all three wetland parameters (i.e., vegetation, soils, and hydrology) described in the Corps Arid West Regional Supplement. Drainage 1 at its origin outside of site boundaries at Palm Avenue primarily consisted of loose, silty/sandy substrate with dense vegetation, including seep monkey flower (*Erythranthe guttata*, OBL), common knotweed (*Persicaria lapathifolia*, FACW), rabbitfoot grass (*Polypogon monspeliensis*, FACW), water beard grass (*Polypogon viridis*,

FACW), flax-leaved horseweed (*Erigeron bonariensis*, FACU), spiny sow thistle (*Sonchus asper*, FAC), brass buttons (*Cotula australis*, FAC), Mexican fan palm (*Washingtonia robusta*, FACW), and broadleaf cattail (*Typha latifolia*, OBL). The periphery of the off-site wetland feature, outside of available surface water, supported primarily weedy/early-successional species such as Italian rye grass (*Festuca perennis*), sweet alyssum (*Lobularia maritimum*), hairy vetch (*Vicia villosa*), red boerhaavia (*Boerhavia coccinea*), mustard (*Hirschfeldia incana*), Mediterranean grass (*Schismus barbatus*), and red brome.

Project activities are isolated to downstream portions of City Creek, away from the wetland feature. No impacts to the wetland feature will occur from project implementation.

Section 6 Findings

This report presents the extent of jurisdictional features using the most up-to-date regulations, written policy, and guidance from the regulatory agencies. Please refer to the following sections for a summary of jurisdictional areas within the Project site.

6.1 U.S. ARMY CORPS OF ENGINEERS DETERMINATION

6.1.1 WATERS OF THE UNITED STATES DETERMINATION

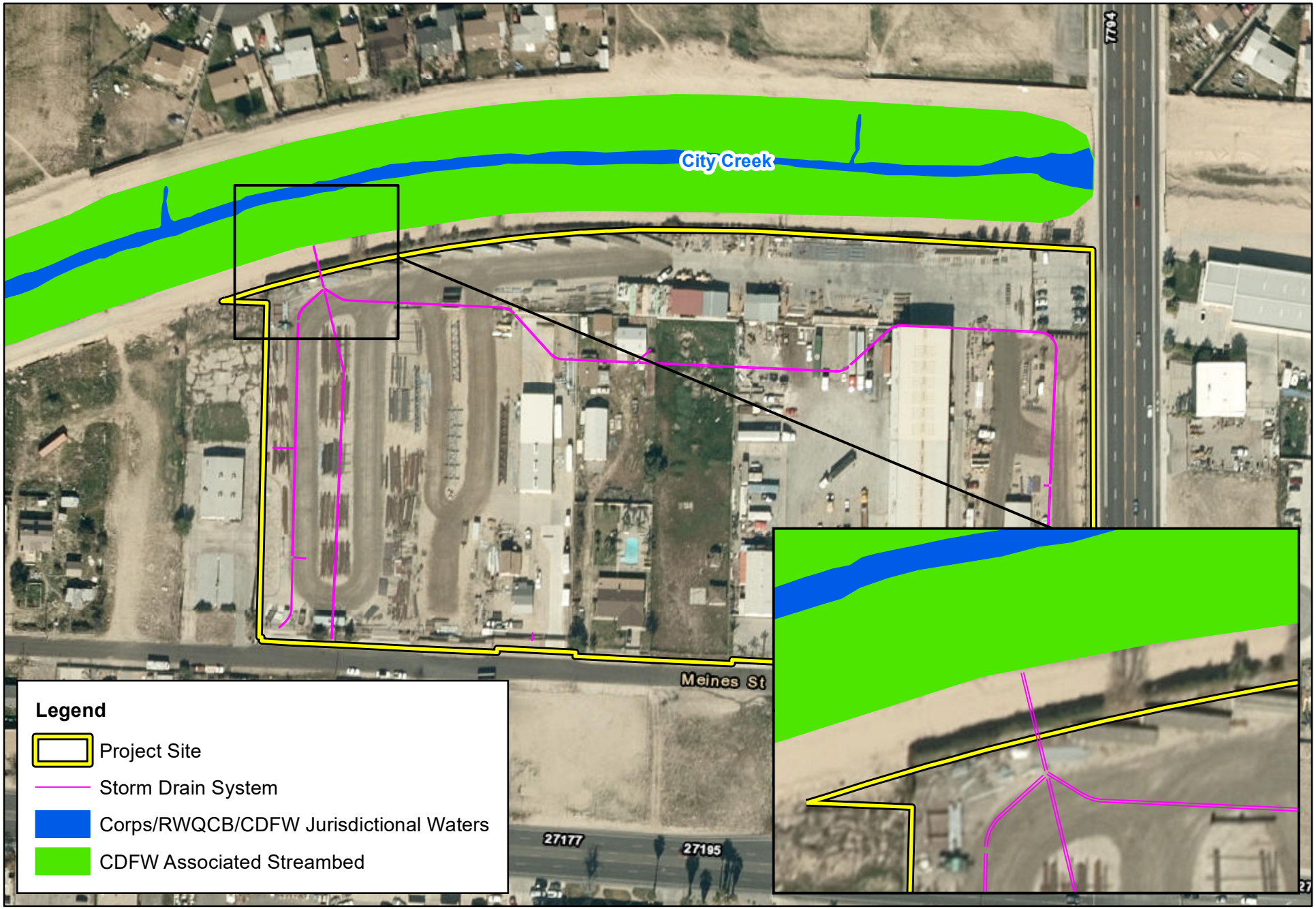
City Creek is tributary to the Santa Ana River (Relatively Permanent Water) and ultimately the Pacific Ocean (Traditional Navigable Water). Therefore, the City Creek will qualify as waters of the United States and fall under the regulatory authority of the Corps.

6.2 REGIONAL WATER QUALITY CONTROL BOARD

No isolated or Rapanos conditions were observed within the boundaries of the Project site. Therefore, the Regional Board jurisdictional limit follows that of the Corps. Refer to Exhibit 5, *Jurisdictional Areas*, for an illustration of on-site Regional Board jurisdictional areas.

6.3 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

City Creek exhibits characteristics consistent with CDFW's methodology and would be considered CDFW streambed. Refer to Exhibit 5, *Jurisdictional Areas*, for an illustration of on-site CDFW jurisdictional areas.



MEINES AND PALM PROJECT

ELMT CONSULTING

0 125 250 500 Feet

Jurisdictional Areas

Source: ESRI Aerial Imagery, San Bernardino County

Exhibit 5

Section 7 Regulatory Approval Process

As part of the project, a storm drain outlet is proposed to be constructed along the southern bank of the channel. The storm drain outlet is proposed to be installed above the OHWM and thus would be exempt from having to obtain regulatory approvals from the Corps and Regional Board. Further, the storm drain outlet would be installed outside the jurisdictional boundary of CDFW. The storm drain outlet is not expected to result in any appreciable increase in discharge into City Creek. There should be no impacts to downstream habitats.

The following is a summary of the various permits, certifications, and agreements that may be necessary prior to construction and/or alteration within jurisdictional areas. Ultimately the regulatory agencies make the final determination of jurisdictional boundaries and permitting requirements.

7.1 U.S. ARMY CORPS OF ENGINEERS

The Corps regulates discharges of dredged or fill materials into waters of the United States, including wetlands, pursuant to Section 404 of the CWA. Therefore, any impacts to on-site jurisdictional areas will require a CWA Section 404 permit prior to project implementation.

Based on the proposed limits of disturbance the storm drain outlet will be installed above the OHWM and would not result in any impacts to Corps jurisdictional waters. A corps CWA Section 404 permit will not be required.

7.2 REGIONAL WATER QUALITY CONTROL BOARD

The Regional Board regulates discharges to surface waters pursuant to Section 401 of the CWA and the California Porter-Cologne Water Quality Control Act. Based on the proposed limits of disturbance the storm drain outlet will be installed outside of Regional Board jurisdictional waters, and therefore, would not result in any impacts to Regional Board jurisdictional waters. A Regional Board CWA Section 401 Water Quality Certification will not be required.

7.3 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

Pursuant to Section 1602 of the California Fish and Game Code, the CDFW regulates any activity that will divert or obstruct the natural flow or alter the bed, channel, or bank (which may include associated biological resources) of a river or stream. Therefore, any impacts to the on-site jurisdictional areas will require a Section 1602 Streambed Alteration Agreement from the CDFW prior to project implementation. The notification will require a processing fee which is based on the term and cost of the proposed Project. It should also be noted that the CDFW requires that the payment of the process fee be paid and CEQA compliance be obtained prior to the issuance of the final Section 1602 Streambed Alteration Agreement.

7.4 RECOMMENDATIONS

It is recommended that this delineation be forwarded to the regulatory agencies for their review and concurrence. The concurrence/receipt would solidify findings noted within this report.

Section 8 References

Brady, III, Roland H. and Kris Vyverberg. 2013. *Methods to Describe and Delineate Episodic Stream Processes on Arid Landscapes for Permitting Utility-Scale Solar Power Plants.* California Energy Commission, Publication Number: CEC-500-2014-013.

California Department of Fish and Wildlife, *Lake and Streambed Alteration Program*. (https://www.wildlife.ca.gov/Conservation/LSA)

Environmental Laboratory. 1987. *Corps of Engineers Wetland Delineation Manual*. Technical Report Y-87-1. Vicksburg, MS: U.S. Army Engineer Waterways Experiment Station, 1987.

Faber, Phyllis M., *Common Riparian Plants of California*, Pickleweed Press 1996.

Faber, Phyllis M., *Common Wetland Plants of Coastal California*, Pickleweed Press 1996.

Google, Inc. 2013. Google Earth Pro version 7.3.4.8248, build date 07/16/2021. Historical aerial imagery from 1985 to 2020.

Munsell. 2009. *Soil Color Charts*, Year Revised/2009 Production. Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2014.

U.S. Army Corps of Engineers (Corps). 2006. *Distribution of Ordinary High Water Mark Indicators and their Reliability in Identifying the Limits of "Waters of the United States" in the Arid Southwestern Channels*. February 2006.

Corps. 2008. *A Field Guide to the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States*. August 2008.

Corps. 2008. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)*, ed. J.S. Wakeley, R. W. Lichvar, and C. V. Nobel. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

Corps. 2016. *Regulatory Guidance Letter No. 16-01: Jurisdictional Determinations*. October 2016.

Corps. 2016. *Arid West 2016 Regional Wetland Plant List.* 2016 NWPL v3.3. Accessed online at http://wetland-plants.usace.army.mil/nwpl_static/index.html.

Corps. 2016. *Updated Map and Drawing Standards for the South Pacific Regulatory Division Regulatory Program*. February 2016.

Corps. 2017. *Los Angeles District Regulatory Program* (www.spl.usace.army.mil/).

Corps. 2017. *Minimum Standards for Acceptance of Aquatic Resources Delineation Reports*. March 2017.

Corps. 2017. *Reissuance of the Nationwide Permits and Issuance of Final Regional Conditions for the Los Angeles District.* March 2017.

U.S. Department of Agriculture, Natural Resources Conservation Service (USDA NRCS). *List of Hydric Soils*. Accessed online at https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric/.

USDA NRCS. 2017. *Field Indicators of Hydric Soils in the United States: A Guide to Identifying and Delineating Hydric Soils, Version 8.1*. 2017.

U.S. Department of Homeland Security, Federal Emergency Management Agency, National Flood Insurance Program, *Flood Insurance Rate Map Nos. 06065C2715G and 06065C2720G*

U.S. Fish and Wildlife Service, Department of Habitat and Resource Conservation. 2017. *Wetland Geodatabase*. Accessed online at http://wetlandsfws.er.usgs.gov/NWI/index.html.

Vyverberg, Kris. 2010. *A Review of Stream Processes and Forms in Dryland Watersheds*. California Department of Fish and Game. December 2010.

Appendix A Documentation

U.S. Fish and Wildlife Service
National Wetlands Inventory

Meines St. and Palm Ave.

May 12, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMette

FEMA

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 — Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/10/2023 at 5:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix B Site Photographs

Photograph 1: From the origin of the drainage at Palm Avenue looking downstream (west).

Photograph 2: Looking at the riparian vegetation present at the origin of the drainage.

Photograph 3: From within the drainage looking upstream. Vegetation has transitioned from riparian to upland species, primarily weedy/ruderal species.

Photograph 4: From within the drainage looking downstream.

Photograph 5: Looking at the northeast corner of the project site and the terminal downstream portion of the drainage that occurs in proximity to site boundaries.

Photograph 6: The location of the proposed storm drain outlet.

Appendix C Methodology

WATERS OF THE UNITED STATES

Section 404 of the Clean Water Act

In accordance with the Revised Definition of "Waters of the United States" (March 20, 2023), "waters of the United Sates" are defined as follows:

> The ''waters of the United States'' are defined in paragraph (a) of this rule:
>
> (1) traditional navigable waters, the territorial seas, and interstate waters;
>
> (2) impoundments of ''waters of the United States'';
>
> (3) tributaries to traditional navigable waters, the territorial seas, interstate waters, or impoundments when the tributaries meet either the relatively permanent standard or the significant nexus standard (''jurisdictional tributaries'');
>
> (4) wetlands adjacent to traditional navigable waters; wetlands adjacent to and with a continuous surface connection to relatively permanent paragraph impoundments or to jurisdictional tributaries when the jurisdictional tributaries meet the relatively permanent standard; and wetlands adjacent to impoundments or jurisdictional tributaries when the wetlands meet the significant nexus standard (''jurisdictional adjacent wetlands''); and
>
> (5) intrastate lakes and ponds, streams, or wetlands not identified in (1) through (4) above that meet either the relatively permanent standard or the significant nexus standard.

The ''relatively permanent standard'' means relatively permanent, standing or continuously flowing waters connected to traditional navigable waters, and waters with a continuous surface connection to such relatively permanent waters or to traditional navigable waters. The ''significant nexus standard'' means waters that, either alone or in combination with similarly situated waters in the region, significantly affect the chemical, physical, or biological integrity of traditional navigable waters, the territorial seas, or interstate waters.

WETLANDS

For this project location, Corps jurisdictional wetlands are delineated using the methods outlined in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0* (Corps 2008). This document is one of a series of Regional Supplements to the Corps Wetland Delineation Manual (Corps 1987). The identification of wetlands is based on a three-parameter approach involving indicators of hydrophytic vegetation, hydric soil, and wetland hydrology. In order to be considered a wetland, an area must exhibit at least minimal characteristics within these three (3) parameters. The Regional Supplement presents wetland indicators, delineation guidance, and other information that is specific to the Arid West Region. In the field, vegetation, soils, and evidence of hydrology are examined using the methodology listed below and documented on Corps wetland data sheets, when applicable. It should be noted that both the Regional Board and the CDFW jurisdictional wetlands encompass those of the Corps.

Vegetation

Nearly 5,000 plant types in the United States may occur in wetlands. These plants, often referred to as hydrophytic vegetation, are listed in regional publications by the U.S. Fish and Wildlife Service (USFWS). In general, hydrophytic vegetation is present when the plant community is dominated by species that can tolerate prolonged inundation or soil saturation during growing season. Hydrophytic vegetation decisions are based on the assemblage of plant species growing on a site, rather than the presence or absence of particular indicator species. Vegetation strata are sampled separately when evaluating indicators of hydrophytic vegetation. A stratum for sampling purposes is defined as having 5 percent or more total plant cover. The following vegetation strata are recommended for use across the Arid West:

- *Tree Stratum:* Consists of woody plants 3 inches or more in diameter at breast height (DBH), regardless of height;
- *Sapling/shrub stratum:* Consists of woody plants less than 3 inches DBH, regardless of height;
- *Herb stratum:* Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size; and,
- *Woody vines:* Consists of all woody vines, regardless of size.

The following indicator is applied per the test method below.[1] Hydrophytic vegetation is present if any of the indicators are satisfied.

Indicator 1 – Dominance Test

Cover of vegetation is estimated and is ranked according to their dominance. Species that contribute to a cumulative total of 50% of the total dominant coverage, plus any species that comprise at least 20% (also known as the "50/20 rule") of the total dominant coverage, are recorded on a wetland data sheet. Wetland indicator status in California (Region 0) is assigned to each species using the *National Wetland Plant List, version 2.4.0* (Corps 2012). If greater than 50% of the dominant species from all strata were Obligate, Facultative-wetland, or Facultative species, the criteria for wetland vegetation is considered to be met. Plant indicator status categories are described below:

- *Obligate Wetland (OBL):* Plants that almost always occur in wetlands;
- *Facultative Wetland (FACW):* Plants that usually occur in wetlands, but may occur in non-wetlands;
- *Facultative (FAC):* Plants that occur in wetlands and non-wetlands;

[1] Although the Dominance Test is utilized in the majority of wetland delineations, other indicator tests may be employed. If one indicator of hydric soil and one primary or two secondary indicators of wetland hydrology are present, then the Prevalence Test (Indicator 2) may be performed. If the plant community satisfies the Prevalence Test, then the vegetation is hydric. If the Prevalence Test fails, then the Morphological Adaptation Test may be performed, where the delineator analyzes the vegetation for potential morphological features.

- *Facultative Upland (FACU):* Plants that usually occur in non-wetlands, but may occur in wetlands; and,

- *Obligate Upland (UPL):* Plants that almost never occur in wetlands.

Hydrology

Wetland hydrology indicators are presented in four (4) groups, which include:

Group A – Observation of Surface Water or Saturated Soils

Group A is based on the direct observation of surface water or groundwater during the site visit.

Group B – Evidence of Recent Inundation

Group B consists of evidence that the site is subject to flooding or ponding, although it may not be inundated currently. These indicators include water marks, drift deposits, sediment deposits, and similar features.

Group C – Evidence of Recent Soil Saturation

Group C consists of indirect evidence that the soil was saturated recently. Some of these indicators, such as oxidized rhizospheres surrounding living roots and the presence of reduced iron or sulfur in the soil profile, indicate that the soil has been saturated for an extended period.

Group D – Evidence from Other Site Conditions or Data

Group D consists of vegetation and soil features that indicate contemporary rather than historical wet conditions, and include shallow aquitard and the FAC-neutral test.

If wetland vegetation criteria is met, the presence of wetland hydrology is evaluated at each transect by recording the extent of observed surface flows, depth of inundation, depth to saturated soils, and depth to free water in the soil test pits. The lateral extent of the hydrology indicators are used as a guide for locating soil pits for evaluation of hydric soils and jurisdictional areas. In portions of the stream where the flow is divided by multiple channels with intermediate sand bars, the entire area between the channels is considered within the OHWM and the wetland hydrology indicator is considered met for the entire area.

Soils

A hydric soil is a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper 16-20 inches.[2] The concept of hydric soils includes soils developed under sufficiently wet conditions to support the growth and regeneration of hydrophytic vegetation. Soils that are sufficiently wet because of artificial measures are included in the

[2] According to the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0 (Corps 2008), growing season dates are determined through on-site observations of the following indicators of biological activity in a given year: (1) above-ground growth and development of vascular plants, and/or (2) soil temperature.

concept of hydric soils. It should also be noted that the limits of wetland hydrology indicators are used as a guide for locating soil pits. If any hydric soil features are located, progressive pits are dug moving laterally away from the active channel until hydric features are no longer present within the top 20 inches of the soil profile.

Once in the field, soil characteristics are verified by digging soil pits along each transect to an excavation depth of 20 inches; in areas of high sediment deposition, soil pit depth may be increased. Soil pit locations are usually placed within the drainage invert or within adjoining vegetation. At each soil pit, the soil texture and color are recorded by comparison with standard plates within a *Munsell Soil Chart* (2009). Munsell Soil Charts aid in designating color labels to soils, based by degrees of three simple variables – hue, value, and chroma. Any indicators of hydric soils, such as organic accumulation, iron reduction, translocation, and accumulation, and sulfate reduction, are also recorded.

Hydric soil indicators are present in three groups, which include:

All Soils

"All soils" refers to soils with any United States Department of Agriculture (USDA) soil texture. Hydric soil indicators within this group include histosol, histic epipedon, black histic, hydrogen sulfide, stratified layers, 1 cm muck, depleted below dark surface, and thick dark surface.

Sandy Soils

"Sandy soils" refers to soil materials with a USDA soil texture of loamy fine sand and coarser. Hydric soil indicators within this group include sandy mucky mineral, sandy gleyed matrix, sandy redox, and stripped matrix.

Loamy and Clayey Soils

"Loamy and clayey soils" refers to soil materials with a USDA soil texture of loamy very fine sand and finer. Hydric soil indicators within this group include loamy mucky mineral, loamy gleyed matrix, depleted matrix, redox dark surface, depleted dark surface, redox depressions, and vernal pools.

SWANCC WATERS

The term "isolated waters" is generally applied to waters/wetlands that are not connected by surface water to a river, lake, ocean, or other body of water. In the presence of isolated conditions, the Regional Board and CDFW take jurisdiction through the application of the OHWM/streambed and/or the 3 parameter wetland methodology utilized by the Corps.

Appendix C

Cultural Resources Assessment

CULTURAL RESOURCES ASSESSMENT

Lovett Meines & Palm Project

City of Highland, San Bernardino County, California

Prepared for:

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Project No. KIM2225

National Archaeological Data Base Information:
Type of Study: Intensive Cultural Resources Assessment
Resources Recorded: 27184 Meines St, 27220 Meines St, P-36-13750
Keywords: Highland
USGS Quadrangle: 7.5-minute *Redlands, California* (1988)

BCRCONSULTING LLC

December 21, 2022

MANAGEMENT SUMMARY

BCR Consulting LLC (BCR Consulting) is under contract to Kimley-Horn to conduct a Cultural Resources Assessment of the Lovett Meines & Palm Project (the project) located in the City of Highland (City), San Bernardino County, California. Tasks completed for the scope of work include a cultural resources records search, an intensive-level pedestrian cultural resources survey, Sacred Lands File search with the Native American Heritage Commission, and paleontological overview. These tasks were performed in partial fulfillment of California Environmental Quality Act (CEQA) requirements. An archaeological records search was conducted at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. This research has revealed that 21 cultural resource studies have taken place within one half-mile of the project site. One of the previous studies has assessed the project site for cultural resources and one cultural resource (two historic-period structures and a historic-period refuse scatter) has been identified within the project boundaries.

During the field survey, BCR Consulting archaeologists identified the previously recorded resource (designated P-36-13750) and two new cultural resources (both historic-period residences) within the project boundaries. None of these resources is eligible for the California Register of Historical Resources (California Register) and as such, none of these resources is recommended "historical resources". They are not significant under CEQA and do not warrant further consideration. Based on these results, BCR Consulting recommends that no additional cultural resources work or monitoring is necessary for any proposed project activities. However, if previously undocumented cultural resources are identified during earthmoving activities, a qualified archaeologist should be contacted to assess the nature and significance of the find, diverting construction excavation if necessary.

Findings were positive during the Sacred Lands File search with the NAHC. The City will initiate Assembly Bill (AB) 52 Native American Consultation for the project. Since the City will initiate and carry out the required Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff is available to answer questions and address concerns as necessary.

According to CEQA Guidelines, projects subject to CEQA must determine whether the project would "directly or indirectly destroy a unique paleontological resource". The Paleontological Overview provided in Appendix D has recommended that:

> The geologic units underlying the project area are mapped primarily as alluvial sand and clay deposits from Holocene epoch (Dibblee and Minch 2004). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching Pleistocene alluvial sediments would increase. The Western Science Center does not have localities within the project area or within a 1-mile radius.

> While the presence of any fossil material is unlikely, if excavation activity disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene periods, the material would be scientifically significant. Excavation activity associated with the development of the project area is unlikely to be paleontologically sensitive, but caution during development should be observed.

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

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INTRODUCTION

BCR Consulting LLC (BCR Consulting) is under contract to Kimley-Horn to conduct a Cultural Resources Assessment of the Lovett Meines & Palm Project (the project) located in the City of Highland (City), San Bernardino County, California. An intensive-level pedestrian cultural resources survey of the project site was completed in partial fulfillment of California Environmental Quality Act (CEQA) requirements. The project site is located in Section 5 of Township 1 South, Range 3 West, San Bernardino Baseline and Meridian, as depicted on the United States Geological Survey (USGS) *Redlands, California* (1988) 7.5-minute topographic quadrangle (Figure 1).

Regulatory Setting

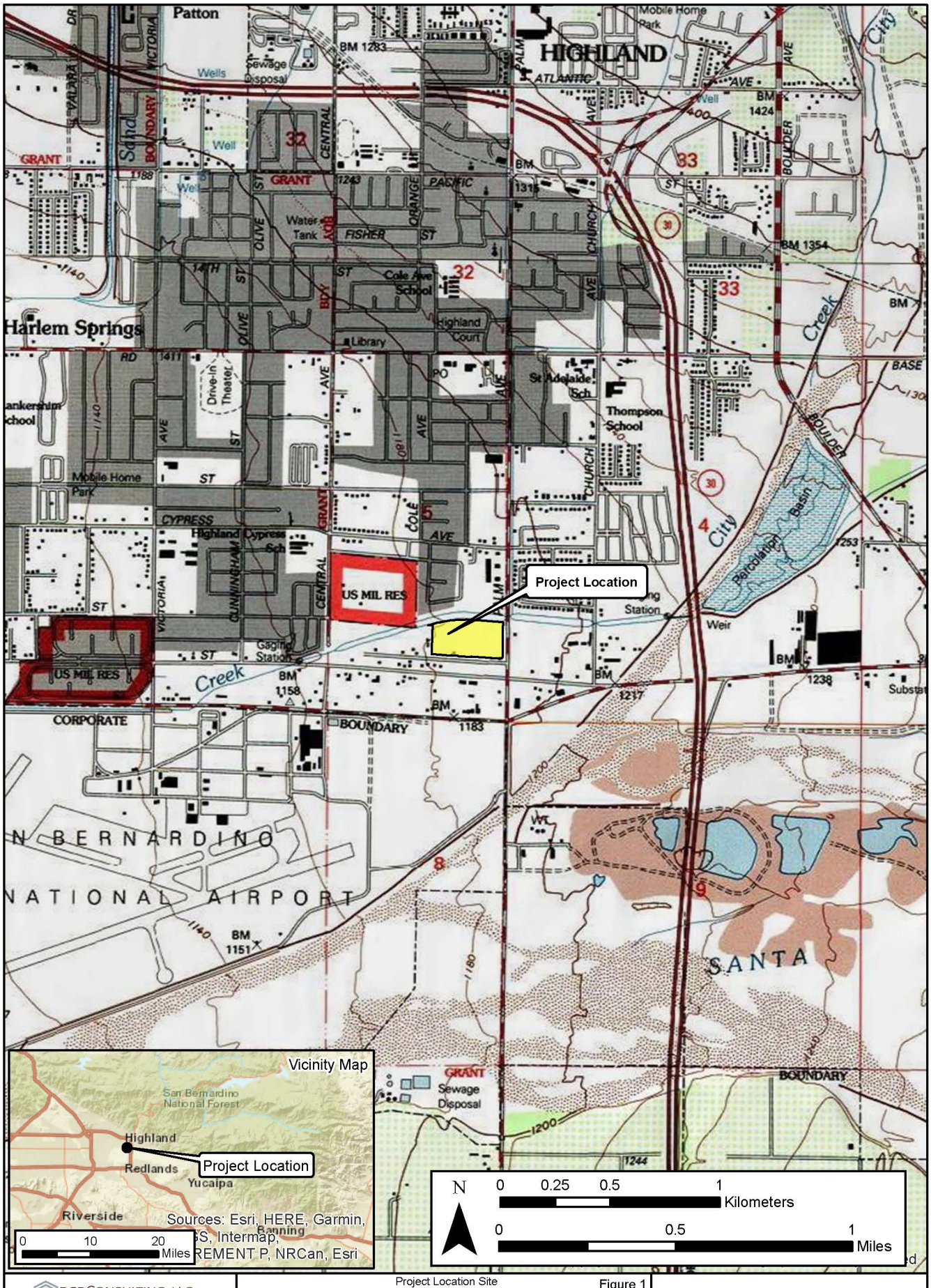
The California Environmental Quality Act. CEQA applies to all discretionary projects undertaken or subject to approval by the state's public agencies (California Code of Regulations 14(3), § 15002(i)). Under CEQA, "A project with an effect that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment" (Cal. Code Regs. tit. 14(3), § 15064.5(b)). State CEQA Guidelines section 15064.5(a) defines a "historical resource" as a resource that meets one or more of the following criteria:

- Listed in, or eligible for listing in, the California Register of Historical Resources (California Register)
- Listed in a local register of historical resources (as defined at Cal. Public Res. Code § 5020.1(k))
- Identified as significant in a historical resource survey meeting the requirements of § 5024.1(g) of the Cal. Public Res. Code
- Determined to be a historical resource by a project's lead agency (Cal. Code Regs. tit. 14(3), § 15064.5(a))

A historical resource consists of "Any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California…Generally, a resource shall be considered by the lead agency to be 'historically significant' if the resource meets the criteria for listing in the California Register of Historical Resources" (Cal. Code Regs. tit. 14(3), § 15064.5(a)(3)).

The significance of a historical resource is impaired when a project demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for the California Register. If an impact on a historical or archaeological resource is significant, CEQA requires feasible measures to minimize the impact (State CEQA Guidelines § 15126.4 (a)(1)). Mitigation of significant impacts must lessen or eliminate the physical impact that the project will have on the resource.

Section 5024.1 of the Cal. Public Res. Code established the California Register. Generally, a resource is considered by the lead agency to be "historically significant" if the resource



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Project Location Site
Meines Street and Palm Avenue Project

Figure 1

Reference: ESRI; USGS Quad: Redlands, California (1988)

Kimley-Horn

meets the criteria for listing in the California Register (Cal. Code Regs. tit. 14(3), § 15064.5(a)(3)). The eligibility criteria for the California Register are similar to those of the National Register of Historic Places (National Register), and a resource that meets one of more of the eligibility criteria of the National Register will be eligible for the California Register.

The California Register program encourages public recognition and protection of resources of architectural, historical, archaeological, and cultural significance, identifies historical resources for state and local planning purposes, determines eligibility for state historic preservation grant funding and affords certain protections under CEQA. Criteria for Designation:

1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States.
2. Associated with the lives of persons important to local, California or national history.
3. Embodies the distinctive characteristics of a type, period, region or method of construction or represents the work of a master or possesses high artistic values.
4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California or the nation.

In addition to meeting one or more of the above criteria, the California Register requires that sufficient time has passed since a resource's period of significance to "obtain a scholarly perspective on the events or individuals associated with the resources." (CCR 4852 [d][2]). Fifty years is normally considered sufficient time for a potential historical resource, and in order that the evaluation remain valid for a minimum of five years after the date of this report, all resources older than 45 years (i.e. resources from the "historic-period") will be evaluated for California Register listing eligibility, or CEQA significance. The California Register also requires that a resource possess integrity. This is defined as the ability for the resource to convey its significance through seven aspects: location, setting, design, materials, workmanship, feeling, and association.

Assembly Bill 52. California Assembly Bill 52 was approved on September 25, 2014. As stated in Section 11 of AB 52, the act applies only to projects that have a notice of preparation or a notice of negative declaration or mitigated negative declaration filed on or after July 1, 2015.

AB 52 establishes "tribal cultural resources" (TCRs) as a new category of resources under CEQA. As defined under Public Resources Code Section 21074, TCRs are "sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe" that are either: (1) included or determined to be eligible for inclusion in the CRHR; included in a local register of historical resources as defined in Public Resources Code Section 5020.1(k); or (2) determined by the lead agency to be significant pursuant to the criteria for inclusion in the California Register set forth in Public Resources Code Section 5024.1(c), if supported by substantial evidence and taking into account the significance of the resource to a California Native American tribe. A "historical resource" as

defined in Public Resources Code Section 21084.1, a "unique archaeological resource" as defined in Public Resources Code Section 21083.2(g), or a "nonunique archaeological resource" as defined in Public Resources Code Section 21083.2(h) may also be TCRs.

AB 52 further establishes a new consultation process with California Native American tribes for proposed projects in geographic areas that are traditionally and culturally affiliated with that tribe. Per Public Resources Code Section 21073, "California Native American tribe" includes federally and non-federally recognized tribes on the NAHC contact list. Subject to certain prerequisites, AB 52 requires, among other things, that a lead agency consult with the geographically affiliated tribe before the release of an environmental review document for a proposed project regarding project alternatives, recommended mitigation measures, or potential significant effects, if the tribe so requests in writing. If the tribe and the lead agency agree upon mitigation measures during their consultation, these mitigation measures must be recommended for inclusion in the environmental document (Public Resources Code Sections 21080.3.1, 21080.3.2, 21082.3, 21084.2, and 21084.3).

Since the City will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff are available to answer questions and address comments as necessary.

Paleontological Resources. CEQA provides guidance relative to significant impacts on paleontological resources, indicating that a project would have a significant impact on paleontological resources if it disturbs or destroys a unique paleontological resource or site or unique geologic feature. Section 5097.5 of the California Public Resources Code specifies that any unauthorized removal of paleontological remains is a misdemeanor. Further, California Penal Code Section 622.5 sets the penalties for damage or removal of paleontological resources. CEQA documentation prepared for projects would be required to analyze paleontological resources as a condition of the CEQA process to disclose potential impacts. Please note that as of January 2018 paleontological resources are considered in the geological rather than cultural category. Therefore, paleontological resources are not summarized in the body of this report. A paleontological overview completed by professional paleontologists from the Western Science Center is provided as Appendix D.

NATURAL SETTING

The elevation of the project site is approximately 1,200 feet above mean sea level (AMSL). The property has been subject to disturbances related to previous construction, landscaping, and weed abatement related to the subject property. The project site is composed of as alluvial sand, gravel and clay deposits dating to the Holocene. The current study has not yielded any evidence that local sediments have produced raw materials used in prehistoric tool manufacture within one half-mile of the project site. Local rainfall ranges from 5 to 15 inches annually (Jaeger and Smith 1971:36-37).

Although recent and historical impacts have decimated local vegetation, remnants of a formerly dominant coastal sage scrub vegetation community have been sporadically observed in the area. Signature plant species include black sage (*Salvia mellifera*), California brittlebush (*Encelia californica*), California buckwheat (*Eriogonum fasciculatum*), California sagebrush (*Artemesia californica*), deerweed (*Lotus scoparius*), golden yarrow

(*Eriophyllum confertiflorum*), laurel sumac (*Malosma laurina*), lemonadeberry (*Rhus integrifolia*), poison oak (*Toxicodendron diverilobum*), purple sage (*Salvia leucophyla*), sticky monkeyflower (*Mimulus aurantiacus*), sugar bush (*Rhus ovate*), toyon (*Heteromeles arbutifolia*), white sage (*Salvia apiana*), coastal century plant (*Agave shawii*), coastal cholla (*Opuntia prolifera*), Laguna Beach liveforever (*Dudleya stolonifera*), many-stemmed liveforever (*Dudleya multicaulis*), our Lord's candle (*Yucca whipplei*), prickly pear cactus (*Opuntia sp.*) (Williams et al. 2008:118-119). Signature animal species within Coastal Sage Scrub habitat include the kangaroo rat (*Dipodomys sp.*), California horned lizard (*Phrynosoma coronatum frontale*), orange throated whiptail (*Cnemidophorus hyperthrus*), San Diego horned lizard (*Phrynosoma coronatum blainvillii*), brown-headed cowbird (*Molothrus ater*), California gnatcatcher (*Polioptila californica californica*), California quail (*Callipepla californica*), and San Diego cactus wren (*Campylorhynchus brunnecapillus sandiegensis*) (Williams et al. 2008:118-120). Local native groups made use of many of these species (see Lightfoot and Parrish 2008).

CULTURAL SETTING

Prehistoric Context

The local prehistoric cultural setting has been organized into many chronological frameworks (see Warren and Crabtree 1986; Bettinger and Taylor 1974; Lanning 1963; Hunt 1960; Wallace 1958, 1962, 1978; Campbell and Campbell 1935), although there is no definitive sequence for the region. The difficulties in establishing cultural chronologies for western San Bernardino County are a function of its enormous size and the small amount of archaeological excavations conducted there. Moreover, throughout prehistory many groups have occupied the area and their territories often overlap spatially and chronologically resulting in mixed artifact deposits. Due to dry climate and capricious geological processes, these artifacts rarely become integrated in-situ. Lacking a milieu hospitable to the preservation of cultural midden, local chronologies have relied upon temporally diagnostic artifacts, such as projectile points, or upon the presence/absence of other temporal indicators, such as groundstone. Such methods are instructive, but can be limited by prehistoric occupants' concurrent use of different artifact styles, or by artifact re-use or re-sharpening, as well as researchers' mistaken diagnosis, and other factors (see Flenniken 1985; Flenniken and Raymond 1986; Flenniken and Wilke 1989). Recognizing the shortcomings of comparative temporal indicators, this study recommends review of Warren and Crabree (1986), who have drawn upon this method to produce a commonly cited and relatively comprehensive chronology.

Ethnography

The project site vicinity has been peripherally occupied by the Gabrielino and Serrano. Each group consisted of semi-nomadic hunter-gatherers who spoke a variation of the Takic language subfamily. Individual ethnographic summaries are provided below.

Gabrielino. The Gabrielino probably first encountered Europeans when Spanish explorers reached California's southern coast during the 15th and 16th centuries (Bean and Smith 1978; Kroeber 1925). The first documented encounter, however, occurred in 1769 when Gaspar de Portola's expedition crossed Gabrielino territory (Bean and Smith 1978). Other brief encounters took place over the years, and are documented in McCawley 1996 (citing numerous sources). The Gabrielino name has been attributed by association with the Spanish mission of San Gabriel, and refers to a subset of people sharing speech and customs with other Cupan speakers (such as the Juaneño/Luiseño/Ajachemem) from the

greater Takic branch of the Uto-Aztecan language family (Bean and Smith 1978). Gabrielino villages occupied the watersheds of various rivers (locally including the Santa Ana) and intermittent streams. Chiefs were usually descended through the male line and often administered several villages. Gabrielino society was somewhat stratified and is thought to have contained three hierarchically ordered social classes which dictated ownership rights and social status and obligations (Bean and Smith 1978:540-546). Plants utilized for food were heavily relied upon and included acorn-producing oaks, as well as seed-producing grasses and sage. Animal protein was commonly derived from rabbits and deer in inland regions, while coastal populations supplemented their diets with fish, shellfish, and marine mammals (Boscana 1933, Heizer 1968, Johnston 1962, McCawley 1996). Dog, coyote, bear, tree squirrel, pigeon, dove, mud hen, eagle, buzzard, raven, lizards, frogs, and turtles were specifically not utilized as a food source (Kroeber 1925:652).

Serrano. The Uto-Aztecan "Serrano" people occupied the western Mojave Desert periphery. Kroeber (1925) applied the generic term "Serrano" to four groups, each with distinct territories: the Kitanemuk, Tataviam, Vanyume, and Serrano. Only one group, in the San Bernardino Mountains and West-Central Mojave Desert, ethnically claims the term Serrano. Bean and Smith (1978) indicate that the Vanyume, an obscure Takic population, was found along the Mojave River at the time of Spanish contact. The Kitanemuk lived to the north and west, while the Tataviam lived to the west. The Serrano lived mainly to the south (Bean and Smith 1978). All may have used the western Mojave area seasonally (see deBarros 2004; Lightfoot and Parrish 2009). Historical records are unclear concerning precise territory and village locations.

History

Historic-era California is generally divided into three periods: the Spanish or Mission Period (1769 to 1821), the Mexican or Rancho Period (1821 to 1848), and the American Period (1848 to present).

Spanish Period. The first European to pass through the area is thought to be a Spaniard called Father Francisco Garces. Having become familiar with the area, Garces acted as a guide to Juan Bautista de Anza, who had been commissioned to lead a group across the desert from a Spanish outpost in Arizona to set up quarters at the Mission San Gabriel in 1771 near what today is Pasadena (Beck and Haase 1974). Garces was followed by Alta California Governor Pedro Fages, who briefly explored the region in 1772. Searching for San Diego Presidio deserters, Fages had traveled through Riverside to San Bernardino, crossed over the mountains into the Mojave Desert, and then journeyed westward to the San Joaquin Valley (Beck and Haase 1974).

Mexican Period. In 1821, Mexico overthrew Spanish rule and the missions began to decline. By 1833, the Mexican government passed the Secularization Act, and the missions, reorganized as parish churches, lost their vast land holdings, and released their neophytes (Beattie and Beattie 1974).

American Period. The American Period, 1848–Present, began with the Treaty of Guadalupe Hidalgo. In 1850, California was accepted into the Union of the United States primarily due to the population increase created by the Gold Rush of 1849. The cattle industry reached its greatest prosperity during the first years of the American Period. Mexican Period land grants had created large pastoral estates in California, and demand for beef during the Gold Rush led to a cattle boom that lasted from 1849–1855. However,

beginning about 1855, the demand for beef began to decline due to imports of sheep from New Mexico and cattle from the Mississippi and Missouri Valleys. When the beef market collapsed, many California ranchers lost their ranchos through foreclosure. A series of disastrous floods in 1861–1862, followed by a significant drought further diminished the economic impact of local ranching. This decline combined with ubiquitous agricultural and real estate developments of the late 19th century, set the stage for diversified economic pursuits that have continued to proliferate to this day (Beattie and Beattie 1974; Cleland 1941).

Local Sequence. In 1856, John Henry Cram and his six sons were among the first Europeans to settle on the eastern edge of Highland then known as Cramville. By 1859, Henry Rabel purchased 120 acres of land in western Highland which contained natural springs from artesian and thermal wells. Highland saw rapid development during the late 1860s through 1890s. Large tracts owned by the U.S. government became locally available for homesteading during the 1860s and settlers began to take advantage of new homestead and economic opportunities. These included new roads, homes, the first Highland school district, a post office, grocery store, and a new Santa Fe Railroad extension from Los Angeles to as far east as Redlands. In 1887, Rabel constructed bath houses and a hotel where guests could bathe in springs thought to have medicinal properties. The Highland Lumber Company was formed during this time and lumber from the mountains north of Highland supplied the material. By 1895, the Highland Lumber Company was sold to the Brookings Lumber Company which grew to be among the largest in the area. By 1892, the Santa Fe Railroad had constructed a loop which passed through Highland on the way to Los Angeles. Multiple Santa Fe Depots found within the city limits of Highland accommodated passengers. The railroads brought people and economic opportunities into Highland. Citrus packing houses were built adjacent to the train depots and the plentiful water sources surrounding Highland made extensive citrus growing possible. Highland was now known as the home of the finest Navel and Valencia oranges in Southern California. This was a change from the apricots, peaches, grapes, and grains grown in the early days of Highland (Highland Historical Society 2022).

Since Highland is located near the headwaters of the Santa Ana River, City Creek, and other tributaries, these precious resources soon became thoroughly exploited during this era. Indeed, upon California's cession into the United States, government officials recognized the local value of water and instituted a Board of Water Commissioners to regulate irrigation and authorize construction of canals and ditches. Agriculture (particularly citrus orchards) was central to Highland's success, and by the late 19th century, numerous canals, weirs, dams, and flood control systems had been constructed throughout the region. Local notable water delivery features constructed between 1858 and 1888 included the Plunge Creek Ditch, the North Fork Ditch (or canal), the Cram and Van Leuven Ditch, the City Creek Ditch, and the Highland Ditch (see Quales 2008:10). Flood management became vital to the region, evident after the catastrophic rains of 1938. Flood-caused damage influenced state legislation that led to the formation of the San Bernardino County Flood Control District in 1939. During the ensuing decades, the channelization and paving of local waterways including many in the project region has helped reduce negative effects resulting from subsequent floods (Department of Public Works 2007).

By the early 1900s, Highland had a developed townscape well defined by a business district, an industrial sector adjacent to the Santa Fe tracks, and residential areas. With a prospering economy connected to citrus production and shipping, the First Bank of Highland

was established in 1904. The Highland citrus industry continued to grow and in 1911 an electric railway was installed within city limits. This electric railway provided additional citrus freight service and now included an interchange with Southern Pacific; a direct competitor to Santa Fe. Highland's economy began to experience some changes in the late 1920s and early 1930s. Multiple fires swept through a concentration of packing houses and the townsite gradually expanded onto the site of a former orange grove. While the economic downturn of the Great Depression was locally significant, its effects in Highland were initially blunted by the strong citrus economy. However, in 1937 the area was hit by the worst freeze in a generation which destroyed large amounts of citrus and other produce. In 1938, torrential rains caused flooding throughout Highland and damaged many orchards, roads, and bridges. Subsequently, the Pacific Electric railroad closed, the First Bank of Highland was purchased by a large outside company, and large-scale suburbanization related to the construction of the San Bernardino Army Air Depot in 1943 all combined to shift Highland away from its agricultural roots (United States Department of the Interior National Park Service 2001). By the 1950s, most of the citrus groves were removed, Santa Fe depots were demolished, and housing tracts replaced the old townsite. By the 1980s, the original central business district had been replaced by modern shopping centers (United States Department of the Interior National Park Service 2001).

PERSONNEL

David Brunzell, M.A., RPA acted as the Project Manager and Principal Investigator for the current study and compiled the technical report and Department of Park and Recreation (DPR) 523 forms. Mr. Brunzell completed the archaeological records search at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. BCR Consulting Archaeological Field Director Joseph Orozco, M.A., RPA contributed to the site DPR 523 forms and the technical report. BCR Consulting Staff Historian George Brentner, B.A., completed the pedestrian field survey.

METHODS

Records Search

The archaeological records search, completed at the SCCIC at California State University, Fullerton, reviewed all recorded historic and prehistoric cultural resources, as well as a review of known cultural resources, and survey and excavation reports generated from projects completed within one half-mile of the project site. In addition, a review was conducted of the National Register of Historic Places (National Register), the California Register of Historical Resources (California Register), and documents and inventories from the California Office of Historic Preservation including the lists of California Historical Landmarks, California Points of Historical Interest, Listing of National Register Properties, and the Inventory of Historic Structures.

Field Survey

An archaeological pedestrian field survey of the project site was conducted on November 10, 2022. The survey was conducted by walking parallel transects approximately 15 meters apart across 100 percent of the project site. Soil exposures, including natural and artificial clearings were carefully inspected for evidence of cultural resources.

RESULTS

Records Search

The archaeological records search was completed at the SCCIC at California State University, Fullerton. This research has revealed that 21 cultural resource studies have taken place within one-half mile of the project site. One of the previous studies assessed a small portion at the eastern edge of the project site for cultural resources and one cultural resource (designated P-36-13750) was identified within the project boundaries. Results are summarized in Table A, and a comprehensive records search bibliography is provided in Appendix A.

Table A. Cultural Resources and Reports Within One Half-Mile of the Project Site

USGS 7.5 Min. Quad.	Cultural Resources Within One Half-Mile of Project Site	Cultural Resource Studies Within One Half-Mile of Project Site
Redlands, California (1988)	P-36-13750*: Historic-Period Structures and Refuse Scatter	SB-106-308, 1409, 1783, 1808, 2260, 2587, 2853, 3736, 3753, 4102, 4826, 4831, 5803**, 6631, 6758, 7144, 7309, 7465, 7823, 7959, 8097

*Located within project site **Assessed a portion of project site

Additional Research. The entire subject property was part of a larger 83.57-acre property patented to Salas Cox as a homestead grant by the state of California on August 20, 1881. Research did not indicate any development within the project site connected with this era. Additional land-use history research was performed to provide context for individual parcels within the project site that contained historic-period buildings (see also Field Survey Results, below). Please note that references for this section are provided in Appendix B.

27184 Meines Street. The residence was built 1950 but no permit records were available to date the modifications. The property contained a garage prior to 1938 that remains in place. The earliest known residents of the subject residence were Aron (1893-1986) and Susie Pruett (1904-1988) who lived there between 1950 and 1976. Aron was a railroad laborer and occasionally rented out a trailer at the property to other residents. In 1976, Robert Forshay acquired the subject property. Mr. Forshay, an American citizen born in the Phillipines, graduated from Pacific High School in San Bernardino. Ownership passed to QR LI Highland CA Commerce Center, the current owner, in 2022.

27220 Meines Street. The buildings were both constructed between 1938 and 1959 according to aerial photos, but assessor information did not indicate an exact build date and no permit records were available. The first recorded owner of 27220 Meines Street was Mrs. Gertha Evans. Mrs. Evans was born in Texas in 1890 and moved to California where she had lived for 40 years. Mrs. Evans lived in Highland for 25 years and acquired the subject property at an unknown date prior to 1963. Mrs. Evans was a member of the St. Paul's AME church in San Bernardino and died in 1963. In 1976, Robert Forshay acquired the subject property. Mr. Forshay an American citizen born in the Phillipines, graduated from Pacific High School in San Bernardino. Ownership passed to QR LI Highland CA Commerce Center, the current owner, in 2022.

P-36-13750. Previous identification efforts indicated that the site comprised an early 20th Century residential site. This interpretation is presumably based on domestic debris that was identified there in 2007. However, no residential structures have been identified within this parcel, and the domestic debris has been removed. Current research did not reveal any residents for this property. Aerial photos show the garage in 1938 (still present), and by 1959 two small ancillary structures had been built to the northwest (no longer present). Disturbances connected with offroad vehicle activity were consistently visible surrounding these features throughout this era, but no evidence of residential use or cultivation were apparent.

Field Survey

During the field survey, BCR Consulting staff carefully inspected the project site, and identified three properties that contained historic-period buildings. These resources have been recorded on DPR 523 forms (Appendix B) and are described in detail below.

27184 Meines Street. The subject property is occupied by a 480 square foot single-family residence that is historic in age (i.e. over 45 years old). The post-war Minimal-Style residence features a wood frame construction, single-story floor plan, and was built in 1950. It features a side-gabled roof with moderate pitch and topped with new composition shingles. The outer walls have been re-surfaced with light-colored stucco and stone accents on the lower portion of the home. The original windows have been replaced with vinyl windows. The subject property shares a dirt lot with an adjacent trucking company. A large wood-framed corrugated structure is visible behind the residence. This building was constructed after 1980 and is not historic in age. As such it does not merit further consideration.

27220 Meines Street. The subject property is a one-acre lot that contains a single-family residence and an ancillary structure that is historic in age (i.e. over 45 years old). The residence is a post-war, minimal-style residence which features wood frame construction, a single-story floor plan, and was built circa 1950. It is fronted by a small concrete pad. A second, historic-period structure is located on the same lot directly north of the residential unit. This structure is made from a stone and concrete matrix and features a wooden gable roof. Both the residence and the stone structure have been neglected and fallen into a state of disrepair. A small concrete foundation from an unknown structure is located northwest of the two buildings.

P-36-13750. This resource was originally recorded in February 2007 by Archaeological Consulting Services as a historic-period residential site which included one garage, a shed, and refuse scatter. BCR Consulting archaeologists relocated the site on November 10, 2022. The shed has been demolished and the area containing the former refuse scatter has been subject to excavation and grading for the construction of an industrial building. The pre-1938 garage is in place as recorded (see historicaerials.com). It is a wood-framed building with corregated aluminum siding and roofing. The south-facing (main) façade has no door and is covered with temporary steel fencing. It is a utilitarian building that lacks architectural style and ornamentation. The graded lot was not accessible.

No other cultural resources were identified within the project site boundaries. Surface visibility was approximately 60 percent within the project site. Sediments consisted of sandy silt with poorly sorted gravels. The property has been subject to severe disturbances related building construction, landscaping, and weed abatement.

SIGNIFICANCE EVALUATIONS

During the field survey, 12 properties containing historic-period buildings were identified. CEQA calls for the evaluation and recordation of historic and archaeological resources. The criteria for determining the significance of impacts to cultural resources are based on Section 15064.5 of the *CEQA Guidelines* and Guidelines for the Nomination of Properties to the California Register. Properties eligible for listing in the California Register and subject to review under CEQA are those meeting the criteria for listing in the California Register, or designation under a local ordinance.

Significance Criteria

California Register of Historical Resources. The California Register criteria are based on National Register criteria. For a property to be eligible for inclusion on the California Register, one or more of the following criteria must be met:

1. It is associated with the events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the U.S.;
2. It is associated with the lives of persons important to local, California, or U.S. history;
3. It embodies the distinctive characteristics of a type, period, region, or method of construction, represents the work of a master, possesses high artistic values; and/or
4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

In addition to meeting one or more of the above criteria, the California Register requires that sufficient time has passed since a resource's period of significance to "obtain a scholarly perspective on the events or individuals associated with the resources." (CCR 4852 [d][2]). The California Register also requires that a resource possess integrity. This is defined as the ability for the resource to convey its significance through seven aspects: location, setting, design, materials, workmanship, feeling, and association.

California Register Evaluations

27184 Meines Street. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possess high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to

yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building are therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

27220 Meines Street. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence and stone building lack architectural distinction and do not display significant elements of the era during which it was constructed. The buildings do not significantly represent the work of an important creative individual or possess high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building are therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

P-36-13750. Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence and stone building lack architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possess high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

RECOMMENDATIONS

BCR Consulting conducted a Cultural Resources Assessment of the Lovett Meines & Palm Project located in the City of Highland, San Bernardino County, California. During the field survey, BCR Consulting identified three Historic-Period cultural resources within the project boundaries. These three resources are recommended not eligible for the California Register and as such are not "historical resources". They are not significant under CEQA and do not warrant further consideration. Based on these results, BCR Consulting recommends that no additional cultural resources work or monitoring is necessary for any proposed project activities. However, if previously undocumented cultural resources are identified during earthmoving activities, a qualified archaeologist shall be contacted to assess the nature and significance of the find, diverting construction excavation if necessary.

Findings were positive during the Sacred Lands File search with the NAHC. The NAHC recommended contacting representatives of San Manuel Band of Mission Indians regarding this finding. The city will initiate Assembly Bill (AB) 52 Native American Consultation for the project. Since the city will initiate and carry out the required Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff is available to answer questions and address concerns as necessary.

According to CEQA Guidelines, projects subject to CEQA must determine whether the project would "directly or indirectly destroy a unique paleontological resource". The Paleontological Overview provided in Appendix D has recommended that:

> The geologic units underlying this project are mapped entirely as alluvial sand, gravel and clay deposits dating to the Holocene (Dibblee & Minch, 2003). While Holocene alluvial units are considered to be of high preservation value, material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching older Holocene or Late Pleistocene alluvial sediments would increase. The Western Science Center does not have localities within the project area or within a 1 mile radius.
>
> While the presence of any fossil material is unlikely, if excavation activity for the Giant RV Project disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene periods, the material would be scientifically significant. Excavation activity associated with the development of the project area is unlikely to be paleontologically sensitive, but caution during development should be observed.

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

REFERENCES

Bean, Lowell John, and Charles Smith
1978 *California*, edited by R.F. Heizer. Handbook of North American Indians, Vol. 8, W.C. Sturtevant, general editor, Smithsonian Institution. Washington, D.C.

Beattie, George W., and Helen P. Beattie
1974 *Heritage of the Valley: San Bernardino's First Century*. Biobooks: Oakland.

Beck, Warren A., and Ynez D. Haase
1974 *Historical Atlas of California*. Oklahoma City: University of Oklahoma Press.

Bettinger, Robert L., and R.E. Taylor
1974 Suggested Revisions in Archaeological Sequences of the Great Basin and Interior Southern California. *Nevada Archaeological Survey Research Papers* 3:1-26.

Boscana, Father Geronimo
1933 *Chinigchinich: Alfred Robinson's Translation of Father Geronimo Boscana's Historic Account of the Belief, Usages, Customs and Extravagancies of the Indians of this Mission of San Juan Capistrano Called the Acagchemem Tribe.* Fine Arts Press, Santa Ana.

Campbell, E., and W. Campbell
1935 The Pinto Basin. *Southwest Museum Papers* 9:1-51.

Cleland, Robert Glass
1941 *The Cattle on a Thousand Hills—Southern California, 1850-80.* San Marino, California: Huntington Library.

deBarros, Phil
2004 *Cultural Resources Overview and Management Plan Rancho Las Flores Project, Hesperia, San Bernardino County, California.* On File at the SCCIC.

Department of Public Works
2007 *Flood Control District.* Electronic resource: http://www.sbcounty.gov/dpw/floodcontrol/. Accessed February 18, 2016.

Flenniken, J.J.
1985 Stone Tool Reduction Techniques as Cultural Markers. *Stone Tool Analysis: Essays in Honor of Don E. Crabtree,* edited by M.G. Plew, J.C. Woods, and M.G. Pavesic. University of New Mexico Press, Albuquerque.

Flenniken, J.J. and A.W. Raymond
1986 Morphological Projectile Point Typology: Replication, Experimentation, and Technological Analysis. *American Antiquity* 51:603-614.

Flenniken, J.J. and Philip J. Wilke
1989 Typology, Technology, and Chronology of Great Basin Dart Points. *American Anthropologist* 91:149-158.

Heizer, Robert F.
1968 Introduction and Notes: *The Indians of Los Angeles County: Hugo Reid's Letters of 1852,* edited and annotated by Robert F. Heizer. Southwest Museum, Los Angeles.

Highland Historical Society
2022 *A Brief History of the Southern California Citrus Industry with a Look at Highland, CA.* Electronic Document: https://www.highlandhistory.org. Accessed Multiple Dates

Hunt, Alice P.
1960 *The Archaeology of the Death Valley Salt Pan, California.* University of Utah Anthropological Papers No. 47.

Jaeger, Edmund C., and Arthur C. Smith
1971 *Introduction to the Natural History of Southern California*. California Natural History Guides: 13. University of California Press. Los Angeles

Johnston, B.E.
1962 *California's Gabrielino Indians.* Southwest Museum, Los Angeles.

Kroeber, Alfred L.
1925 *Handbook of the Indians of California.* Bureau of American Ethnology Bulletin 78. Washington D.C.: Smithsonian Institution. Reprinted in 1976, Dover. New York.

Lanning, Edward P.
1963 The Archaeology of the Rose Spring Site (Iny-372). *University of California Publications in American Archaeology and Ethnology* 49(3):237-336.

Lightfoot, Kent G., Otis Parrish
2009 *California Indians and Their Environment, an Introduction.* UC Press, Berkeley.

McCawley, William
1996 *The First Angelinos, The Gabrielino Indians of Los Angeles.* Malki Museum Press/Ballena Press Cooperative Publication. Banning/Novato, California.

Quales, Kyle
2008 *A Brief History of North Fork Canal, San Bernardino, California.* Electronic Document: www.highlandhistory.org. Accessed February 18, 2016.

United States Department of the Interior National Park Service
2000 National Register of Historic Places Form. *Highland Historic District.* Form prepared by Christy Johnson McAvoy.

United States Geological Survey
1988 *Redlands , California* 7.5-minute topographic quadrangle map.

Wallace, William J.
1958 Archaeological Investigation in Death Valley National Monument. *University of California Archaeological Survey Reports* 42:7-22.

1962 Prehistoric Cultural Development in the Southern California Deserts. *American Antiquity* 28(2):172-180.

1978 The Southern Valley Yokuts, and The Northern Valley Yokuts. In *Handbook of the North American Indians, Vol. 8, California,* edited by W.L. d'Azevedo, pp. 448-470. W.C. Sturtevant, General Editor. Smithsonian Institution, Washington D.C.

Warren, Claude N. and R.H. Crabtree
1986 The Prehistory of the Southwestern Great Basin. In *Handbook of the North American Indians, Vol. 11, Great Basin,* edited by W.L. d'Azevedo, pp.183-193. W.C. Sturtevant, General Editor. Smithsonian Institution, Washington D.C.

Williams, Patricia, Leah Messinger, Sarah Johnson
2008 *Habitats Alive! An Ecological Guide to California's Diverse Habitats.* California Institute for Biodiversity, Claremont, California.

APPENDIX A

RECORDS SEARCH BIBLIOGRAPHY

Report List

KIM2225

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-00308	NADB-R - 1060308; Voided - 76-3.6	1976	HARRIS, RUTH D.	ARCHAEOLOGICAL - HISTORICAL RESOURCES ASSESSMENT OF TRACT NO. 7519	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	
SB-01409	NADB-R - 1061409; Voided - 83-10.1	1983	LERCH, MICHAEL K.	CULTURAL RESOURCES ASSESSMENT OF THE PROPOSED EAST VALLEY WATER DISTRICT WASTEWATER TREATMENT PLANT, SAN BERNARDINO COUNTY, CALIFORNIA	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	
SB-01783	NADB-R - 1061783; Voided - 88-3.5	1988	HORNBECK, DAVID and HOWARD BOTTS	SEVEN OAKS DAM PROJECT: WATER SYSTEMS	AREA LOCATION SYSTEMS	36-006545, 36-008546, 36-013549
SB-01808	NADB-R - 1061808; Voided - 88-6.5	1988	HAMPSON, R. PAUL, JERREL SORENSEN, SUSAN K. GOLDBERG, MARK T. SWANSON, and JEANNE E. ARNOLD	CULTURAL RESOURCES SURVEY, UPPER SANTA ANA RIVER, CALIFORNIA	GREENWOOD & ASSOCIATES AND INFOTEC	36-000144, 36-001577, 36-006060, 36-006061, 36-006062, 36-006063, 36-006064, 36-006065, 36-006066, 36-006067, 36-006068, 36-006069, 36-006070, 36-006071, 36-006072, 36-006073, 36-006074, 36-006075, 36-006076, 36-006077, 36-006078, 36-006079, 36-006080, 36-006081, 36-006082, 36-006083, 36-006084, 36-006085, 36-006086, 36-006087, 36-006088, 36-006089, 36-006090, 36-006091, 36-006092, 36-006093, 36-006094, 36-006095, 36-006096, 36-006097, 36-006098, 36-006099, 36-006100, 36-006101, 36-006102, 36-006103, 36-060194, 36-060195, 36-060196, 36-060252
SB-02260	NADB-R - 1062260; Voided - 91-2.10	1991	CARMICHAEL, DAVID	DOCUMENTARY RESEARCH AND FIELD RECONNAISSANCE RELATING TO CULTURAL RESOURCES AT NORTON AIR FORCE BASE, CALIFORNIA	NORTON AIR FORCE BASE	36-006096
SB-02587	NADB-R - 1062587; Voided - 91-12.10	1991	SCHMUECKER, BRIAN L.	FINAL REPORT: INVENTORY AND EVALUATION OF WORLD WAR II STRUCTURES AT NORTON AIR FORCE BASE IN SAN BERNARDINO COUNTY, CALIFORNIA	MILITARY AIRLIFT COMMAND	

Report List

KIM2225

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-02853	NADB-R - 1062853	1991	FOSTER, JOHN M., JAMES J. SCHMIDT, CARMEN A. WEBER, GWENDOLYN R. ROMANI, and ROBERTA S. GREENWOOD	CULTURAL RESOURCE INVESTIGATION: INLAND FEEDER PROJECT, MWD OF SOUTHERN CA	GREENWOOD & ASSOCIATES	36-006086, 36-006354, 36-006847, 36-006848, 36-006849, 36-006850, 36-006851, 36-006852, 36-006853, 36-006854, 36-006855, 36-006856, 36-006857, 36-006858, 36-006859, 36-006860, 36-006861, 36-006862, 36-006863, 36-006864, 36-006865, 36-006866, 36-006867, 36-006868, 36-006869, 36-006870, 36-006871, 36-006872, 36-006940, 36-007021, 36-007050, 36-007051, 36-007053, 36-007054, 36-007055, 36-007702
SB-03736	NADB-R - 1063736	2000	WHITE, LAURIE S. and ROBERT S. WHITE	A CULTURAL RESOURCE ASSESSMENT OF A 20 ACRE PORTON OF THE JERRY LEWIS COMMUNITY CENTER PROJECT SITE, CITY OF HIGHLAND, SAN BERNARDINO COUNTY, CA. 17PP	ARCHAEOLOGICAL ASSOCIATES	
SB-03753	NADB-R - 1063753	1998	BONNER, WAYNE	CULTURAL RESOURCES RECORD SEARCH & SURVEY REPORT FOR A PACIFIC BELL MOBILE SERVICES TELECOMMUNICATIONS FACILITY: CM127-01, CITY OF HIGHLAND, CA. 5PP	CHAMBERS GROUP	
SB-04102	NADB-R - 1064102	2003	WHITE, ROBERT S., LAURA S. WHITE, and DAVID VAN HORN	A CULTURAL RESOURCE ASSESSMENT OF A 5.03 ACRE PARCEL AS SHOWN ON TTM 16460, CITY OF REDLANDS, SAN BERNARDINO COUNTY, CA. 26PP	ARCHAEOLOGICAL ASSOCIATES	36-010962
SB-04826	NADB-R - 1064826	2006	WLODARSKI J, ROBERT	RECORDS SEARCH AND FIELD RECONNAISSANCE PROGRAM FOR NEXTEL WIRELESS TELECOMMUNICATIONS SITE CA-5349C-KAIA(SAFET KLEEN) LOCATED AT 7979 PAM AVENUE, CITY OF HIGHLAND, SAN BERNARDINO COUNTY, CALIFORNIA 92346		
SB-04831	NADB-R - 1064831	2005	Brunzell, David and Curt Duke	Cultural Resource Assessment: Upper Santa Ana River Wash Land Management and Habitat Conservation Plan, San Bernardino County, California.	LSA Associates, Inc.	36-006006, 36-006064, 36-006070, 36-006074, 36-006075, 36-006076, 36-006078, 36-006087, 36-006088, 36-010184
SB-05803	NADB-R - 1065803	2007	Alexandrowicz, John Stephen	An Historical Resources Identification Investigation of the Light Industrial Shop Building Project, 27262 Meines Street, City of Highland, San Bernardino County, California.	ACS	36-013750

Report List

KIM2225

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-06631	NADB-R - 1066631	2009	McKenna, Jeanette A.	Redlands East Valley High School Records Search.		
SB-06758	NADB-R - 1066758	2004	Lee, Christopher	Cultural Resources Technical Report: Emergency Protection, County of San Bernardino and City of Rancho Cucamonga.		
SB-07144		2012	Billat, Lorna	New Tower Submission Packet, Highland Community Park, LA5625A	EarthTouch	36-006848, 36-013750
SB-07309	Caltrans - ; NADB-R - 1067309	2011	Tang, Bai "Tom" and Hogan, Michael	Historic Property Survey Report: Tiger 5th Street Improvement Project, Cities of Highland and San Bernardino, San Bernardino County, California.	CRM Tech	36-020001, 36-025789, 36-025790, 36-025791, 36-025792, 36-025793, 36-025794, 36-025795, 36-025796, 36-025797, 36-025798, 36-025799, 36-025800, 36-025801, 36-025802, 36-025803, 36-025804, 36-025805, 36-025806, 36-025807, 36-025808, 36-025809, 36-025810, 36-025811, 36-025812, 36-025813, 36-025814, 36-025815, 36-025816, 36-025817, 36-025818, 36-025819
SB-07465		2013	Puckett, Heather	Peacock Candidate B, 7793 Central Ave, Highland CA	TetraTech	
SB-07823	NADB-R - 1067823	2014	Tang, Bai "Tom"	Due-Diligence Historical/Archaeological Resources Survey: Third Street Between Victoria Avenue and Palm Avenue Between the Cities of Highland and San Bernardino, San Bernardino County, California.	CRM Tech	
SB-07959		1998	Hatheway, Roger G.	Determination of Eligibility for 50 Buildings in the City of San Bernadino	Hatheway and Associates	
SB-08097	Caltrans -	2014	Long, Shelly	Archaeological Survey Report State Route 210 Mixed Flow Lane Addition from Highland Avenue to San Bernardino Avenue, Cities of Highland, San Bernardino, Redlands and Portions of San Bernardino County, California	ICF International	36-006847, 36-015497

Resource List

KIM2225

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-36-013750		Other - 27262 Meines St, Highland; Resource Name - ACS-KCB-1	Building, Structure, Site	Historic	AH03; AH04; AH15; HP02	2007 (Alexandrowicz, ACS)	SB-05803, SB-07144

APPENDIX B

DEPARTMENT OF PARK AND RECREATION 523 FORMS

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

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: 27184 Meines Street

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad:** Redlands **Date:** 1988 **T**1S; **R**3W; Section 5**;** SBBM
c. Address: 27184 Meines Street City: Highland Zip: 92346
d. UTM: Zone: N/A mE/ Elevation: 1,200' AMSL
e. Other Locational Data: The subject property is located on the north side of Meines Street, west of Palm Avenue.

***P3a. Description:** The subject property is occupied by a 480 square foot single-family residence that is historic in age (i.e. over 45 years old). The post-war Minimal-Style residence features a wood frame construction, single-story floor plan, and was built in 1950. It features a side-gabled roof with moderate pitch and topped with new composition shingles. The outer walls have been re-surfaced with light-colored stucco and stone accents on the lower portion of the home. The original windows have been replaced with vinyl windows. The subject property shares a dirt lot with an adjacent trucking company. A large wood-framed corrugated structure is visible behind the residence. This building was constructed after 1980 and is not historic in age. As such it does not merit further consideration.

***P3b. Resource Attributes:** HP3. Single Family Residence

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

***P4. Resources Present:**
☑ Building ☐Structure ☐Object
☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: Residence Overview (View Northwest)

***P6. Date Constructed/ Age and Sources:**
☑Historic 1950 (see page 2) ☐Prehistoric ☐Both

***P7. Owner and Address:**
QR LI Highland Ca Commerce Center Owner LLC

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 11/10/22

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Lovett Meins & Palm Project, Highland, San Bernardino County, California.*

***Attachments:** ☐NONE ☑ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use: Industrial
***B5. Architectural Style:** Post-War Minimal
***B6. Construction History:** (Construction date, alterations, and date of alterations): The residence was built 1950 but no permit records were available to date the modifications.

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

Highland. In 1856, John Henry Cram and his six sons were among the first Europeans to settle on the eastern edge of Highland then known as Cramville. By 1859, Henry Rabel purchased 120 acres of land in western Highland which contained natural springs from artesian and thermal wells. Highland saw rapid development during the late 1860s through 1890s. Large tracts owned by the U.S. government became locally available for homesteading during the 1860s and settlers began to take advantage of new homestead and economic opportunities. These included new roads, homes, the first Highland school district, a post office, grocery store, and a new Santa Fe Railroad extension from Los Angeles to as far east as Redlands. In 1887, Rabel constructed bath houses and a hotel where guests could bathe in springs thought to have medicinal properties. The Highland Lumber Company was formed during this time and lumber from the mountains north of Highland supplied the material. By 1895, the Highland Lumber Company was sold to the Brookings Lumber Company which grew to be among the largest in the area. By 1892, the Santa Fe Railroad had constructed a loop which passed through Highland on the way to Los Angeles. Multiple Santa Fe Depots found within the city limits of Highland accommodated passengers. The railroads brought people and economic opportunities into Highland. Citrus packing houses were built adjacent to the train depots and the plentiful water sources surrounding Highland made extensive citrus growing possible. Highland was now known as the home of the finest Navel and Valencia oranges in Southern California. This was a change from the apricots, peaches, grapes, and grains grown in the early days of Highland (Highland Historical Society 2022). [Continued on page 3]

Period of Significance: Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**

General Land Office 1881. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates

Highland Historical Society. *A Brief History of the Southern California Citrus Industry With a Look at Highland, CA.* Electronic Document: https://www.highlandhistory.org. Accessed Multiple Dates

San Bernardino County. 2022. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 1192-621-05." Online Database. Accessed Multiple Dates.

San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.

U.S. Census Records 1950. Electronic Document: Ancestry.com. Accessed 12/20/2022.

United States Department of the Interior National Park Service
National Register of Historic Places Form. 2000. *Highland Historic District.*
Form prepared by Christy Johnson McAvoy.

***B14. Evaluators:** David Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation** 12/15/22

(Sketch Map with north arrow required.)

B10. Significance/History [Continued from page 2]:

By the early 1900s, Highland had a developed townscape well defined by a business district, an industrial sector adjacent to the Santa Fe tracks, and residential areas. With a prospering economy connected to citrus production and shipping, the First Bank of Highland was established in 1904. The Highland citrus industry continued to grow and in 1911 an electric railway was installed within city limits. This electric railway provided additional citrus freight service and now included an interchange with Southern Pacific; a direct competitor to Santa Fe. Highland's economy began to experience some changes in the late 1920s and early 1930s. Multiple fires swept through a concentration of packing houses and the townsite gradually expanded onto the site of a former orange grove. While the economic downturn of the Great Depression was locally significant, its effects in Highland were initially blunted by the strong citrus economy. However, in 1937 the area was hit by the worst freeze in a generation which destroyed large amounts of citrus and other produce. In 1938, torrential rains caused flooding throughout Highland and damaged many orchards, roads, and bridges. Subsequently, the Pacific Electric railroad closed, the First Bank of Highland was purchased by a large outside company, and large-scale suburbanization related to the construction of the San Bernardino Army Air Depot in 1943 all combined to shift Highland away from its agricultural roots (United States Department of the Interior National Park Service 2001). By the 1950s, most of the citrus groves were removed, Santa Fe depots were demolished, and housing tracts replaced the old townsite. By the 1980s, the original central business district had been replaced by modern shopping centers (United States Department of the Interior National Park Service 2001).

Property History The subject property was part of an 83.57-acre property patented to Salas Cox by the state of California on August 20, 1881 (General Land Office 1881). The property contained a garage prior to 1938 that remains in place, but research has not connected this development to Mr. Cox. The earliest known residents of the subject residence were Aron (1893-1986) and Susie Pruett (1904-1988) who lived there between 1950 and 1976. Aron was a railroad laborer and occasionally rented out a trailer at the property to other residents (San Bernardino County Sun 9 Jan 1988, page 14; U.S. Census Records 1950). Robert Forshay owned the property from 1976 until selling to the current owner, QR LI Highland CA Commerce Center (San Bernardino County PIMS Ownership History 2022).

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence lacks architectural distinction and does not display significant elements of the era during which it was constructed. The building does not significantly represent the work of an important creative individual or possess high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age building is therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

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

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

 *Resource Name or #: 27220 Meines Street

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** Redlands **Date:** 1988 **T**1S; **R**3W; Section 5**;** SBBM

c. Address: 27220 Meines Street City: Highland Zip: 92346

d. UTM: Zone: N/A mE/ Elevation: 1,200' AMSL

e. Other Locational Data: The subject property is located on the north side of Meines Street, west of Palm Avenue.

***P3a. Description:** The subject property is a one-acre lot that contains a single-family residence and an ancillary structure that is historic in age (i.e. over 45 years old). The residence is a post-war, minimal-style residence which features wood frame construction, a single-story floor plan, and was built circa 1950. It is fronted by a small concrete pad. A second, historic-period structure is located on the same lot directly north of the residential unit. This structure is made from a stone and concrete matrix and features a wooden gable roof. Both the residence and the stone structure have been neglected and fallen into a state of disrepair. A small concrete foundation from an unknown structure is located northwest of the two buildings.

***P3b. Resource Attributes:** HP3. Single Family Residence

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

***P4. Resources Present:**
☑ Building ☑Structure ☐Object
☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #) Photo 1: Residence Overview (View Northeast)

***P6. Date Constructed/ Age and Sources:**
☑Historic 1938-1959 (see page 2)
☐Prehistoric ☐Both

***P7. Owner and Address:**
QR LI Highland Ca Commerce Center Owner

***P8. Recorded by:**
George Brentner
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 11/10/22

***P10. Survey Type:** Intensive.

***P11. Report Citation:** *Cultural Resources Assessment of the Lovett Meins & Palm Project, Highland, San Bernardino County, California.*

***Attachments:** ☐NONE ☑Location Map ☐Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

B1. Historic Name: N/A B2. Common Name: N/A
B3. Original Use: Residence B4. Present Use:
***B5. Architectural Style:** Building 2 Post-War Minimal; Building 2: Stone Vernacular
***B6. Construction History:** (Construction date, alterations, and date of alterations): The buildings were both constructed between 1938 and 1959 according to aerial photos, but assessor information did not indicate an exact build date and no permit records were available (United States Department of Agriculture 1938, 1959; San Bernardino County 2022).

***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A ***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Mid-Century Community Development **Area:** San Bernardino **Applicable Criteria:** N/A

History

Highland. In 1856, John Henry Cram and his six sons were among the first Europeans to settle on the eastern edge of Highland then known as Cramville. By 1859, Henry Rabel purchased 120 acres of land in western Highland which contained natural springs from artesian and thermal wells. Highland saw rapid development during the late 1860s through 1890s. Large tracts owned by the U.S. government became locally available for homesteading during the 1860s and settlers began to take advantage of new homestead and economic opportunities. These included new roads, homes, the first Highland school district, a post office, grocery store, and a new Santa Fe Railroad extension from Los Angeles to as far east as Redlands. In 1887, Rabel constructed bath houses and a hotel where guests could bathe in springs thought to have medicinal properties. The Highland Lumber Company was formed during this time and lumber from the mountains north of Highland supplied the material. By 1895, the Highland Lumber Company was sold to the Brookings Lumber Company which grew to be among the largest in the area. By 1892, the Santa Fe Railroad had constructed a loop which passed through Highland on the way to Los Angeles. Multiple Santa Fe Depots found within the city limits of Highland accommodated passengers. The railroads brought people and economic opportunities into Highland. Citrus packing houses were built adjacent to the train depots and the plentiful water sources surrounding Highland made extensive citrus growing possible. Highland was now known as the home of the finest Navel and Valencia oranges in Southern California. This was a change from the apricots, peaches, grapes, and grains grown in the early days of Highland (Highland Historical Society 2022). [Continued on page 3]

Period of Significance: Early Post World War II **Property Type:** Residential
Applicable Criteria: N/A B11. Additional Resource Attributes N/A
***B12. References:**

General Land Office 1881. BLM Records of the GLO. Electronic Document: glorecords.blm.gov. Accessed Multiple Dates
Highlandhistory.org 2022 Electronic Document: https://www.highlandhistory.org. Accessed Multiple Dates
Osbourne, Richard. 1996. *World War II Sites in the United States a Directory and Tour Guide.* Riebel-Roque Publishing Company. Madison, Wisconsin.
San Bernardino County. Property Information Management Systems [PIMS] – "Property Characteristics and Ownership History for Parcel 1192-621-03." Online Database. Accessed November 11, 2022.
San Bernardino County Sun (San Bernardino, California) [SBCS]. Multiple years. "[Assorted articles and editorials]." Multiple dates. San Bernardino, California. Electronic Database: via newspapers.com. Accessed multiple dates.
United States Department of Agriculture. 1938 and 1959. Aerial Photos of San Bernardino County. Electronic Document: historicaerials.com. Accessed Multiple Dates.
United States Department of the Interior National Park Service
2000 National Register of Historic Places Form. *Highland Historic District.*
Form prepared by Christy Johnson McAvoy.

(Sketch Map with north arrow required.)

***B14. Evaluators:** David Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation** 12/15/22

B10. Significance/History [Continued from page 2]:

By the early 1900s, Highland had a developed townscape well defined by a business district, an industrial sector adjacent to the Santa Fe tracks, and residential areas. With a prospering economy connected to citrus production and shipping, the First Bank of Highland was established in 1904. The Highland citrus industry continued to grow and in 1911 an electric railway was installed within city limits. This electric railway provided additional citrus freight service and now included an interchange with Southern Pacific; a direct competitor to Santa Fe. Highland's economy began to experience some changes in the late 1920s and early 1930s. Multiple fires swept through a concentration of packing houses and the townsite gradually expanded onto the site of a former orange grove. While the economic downturn of the Great Depression was locally significant, its effects in Highland were initially blunted by the strong citrus economy. However, in 1937 the area was hit by the worst freeze in a generation which destroyed large amounts of citrus and other produce. In 1938, torrential rains caused flooding throughout Highland and damaged many orchards, roads, and bridges. Subsequently, the Pacific Electric railroad closed, the First Bank of Highland was purchased by a large outside company, and large-scale suburbanization related to the construction of the San Bernardino Army Air Depot in 1943 all combined to shift Highland away from its agricultural roots (United States Department of the Interior National Park Service 2001). By the 1950s, most of the citrus groves were removed, Santa Fe depots were demolished, and housing tracts replaced the old townsite. By the 1980s, the original central business district had been replaced by modern shopping centers (United States Department of the Interior National Park Service 2001).

Property History. The subject property was part of an 83.57-acre property patented to Salas Cox by the state of California on August 20, 1881 (General Land Office 1881). Research has not connected existing buildings on the subject property with Mr. Cox. The first recorded owner of 27220 Meines Street was Mrs. Gertha Evans. Mrs. Evans was born in Texas in 1890 and moved to California where she had lived for 40 years. Mrs. Evans lived in Highland for 25 years and acquired the subject property at an unknown date prior to 1963. Mrs. Evans was a member of the St. Paul's AME church in San Bernardino and died in 1963. In 1976, Robert Forshay acquired the subject property. Mr. Forshay an American citizen born in the Phillipines, graduated from Pacific High School in San Bernardino. Ownership passed to QR LI Highland CA Commerce Center, the current owner, in 2022. (San Bernardino County 2022 [PIMS]; [SBCS] 31 Mar. 1963, 15 Aug. 1965, 7 July. 1966, 5 Aug. 1966, 20 Apr. 1984)

Evaluation
Criterion 1: Substantial research has not indicated a close association between the subject property and any important events. It is therefore not eligible for the California Register under Criterion 1. Criterion 2: Substantial research has failed to connect the subject property with the lives of persons important in California's past. It is therefore not eligible for the California Register under Criterion 2. Criterion 3: The residence and stone building lack architectural distinction and do not display significant elements of the era during which it was constructed. The buildings do not significantly represent the work of an important creative individual or possess high artistic values. Therefore, the subject property is not eligible under Criterion 3. Criterion 4: The subject property has not and is not likely to yield information important in prehistory or history and is therefore not eligible for listing under Criterion 4. The subject property and its historic-age buildings are therefore recommended not eligible under any of the four criteria for listing on the California Register, and as such are not recommended historical resources under CEQA.

Integrity. As the building remains in its original position and is still in use as a residential property, it retains integrity of location, setting, and association. Alterations have diminished integrity of design, materials, workmanship, and feeling.

Overview of Historic-Period Building North of Residence at 27220 Meines St. (View NE)

***Recorded by:** G. Brentner ***Date:** November 10, 2022 ☐ Continuation ☑ Update

This resource was originally recorded in February 2007 by Archaeological Consulting Services as a historic-period residential site which included one garage, a shed, and refuse scatter. BCR Consulting archaeologists relocated the site on November 10, 2022. The shed has been demolished and the area containing the former refuse scatter has been subject to excavation and grading for the construction of an industrial building. The pre-1938 garage is in place as recorded (see historicaerials.com). It is a wood-framed building with corregated aluminum siding and roofing. The south-facing (main) façade has no door and is covered with temporary steel fencing. It is a utilitarian building that lacks architectural style and ornamentation. The graded lot was not accessible.

Photo 1: Garage Overview (View NE)

APPENDIX C

NAHC SACRED LANDS FILE SEARCH

NATIVE AMERICAN HERITAGE COMMISSION

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NAHC HEADQUARTERS
1550 Harbor Boulevard
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West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

December 2, 2022

David Brunzell
BCR Consulting, LLC

Via Email to: ***bcrllc2008@gmail.com***

Re: Meines Street and Palm Avenue Project (KIM2225), San Bernardino County

Dear Mr. Brunzell:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information submitted for the above referenced project. The results were positive. Please contact the Tribes on the attached list for information. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. A SLF search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with a project's geographic area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites, such as the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center for the presence of recorded archaeological sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. Please contact all of those listed; if they cannot supply information, they may recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Cameron.vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Bernardino County
12/2/2022

Agua Caliente Band of Cahuilla Indians
Patricia Garcia-Plotkin, Director
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264
Phone: (760) 699 - 6907
Fax: (760) 699-6924
ACBCI-THPO@aguacaliente.net

Agua Caliente Band of Cahuilla Indians
Reid Milanovich, Chairperson
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264
Phone: (760) 699 - 6800
Fax: (760) 699-6919
laviles@aguacaliente.net

Augustine Band of Cahuilla Mission Indians
Amanda Vance, Chairperson
84-001 Avenue 54 — Cahuilla
Coachella, CA, 92236
Phone: (760) 398 - 4722
Fax: (760) 369-7161
hhaines@augustinetribe.com

Cabazon Band of Mission Indians
Doug Welmas, Chairperson
84-245 Indio Springs Parkway — Cahuilla
Indio, CA, 92203
Phone: (760) 342 - 2593
Fax: (760) 347-7880
jstapp@cabazonindians-nsn.gov

Cahuilla Band of Indians
Daniel Salgado, Chairperson
52701 U.S. Highway 371 — Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 5549
Fax: (951) 763-2808
Chairman@cahuilla.net

Chemehuevi Indian Tribe
Sierra Pencille, Chairperson
P.O. Box 1976 1990 Palo Verde Drive — Chemehuevi
Havasu Lake, CA, 92363
Phone: (760) 858 - 4219
Fax: (760) 858-5400
chairman@cit-nsn.gov

Colorado River Indian Tribes
Rebecca Loudbear, Attorney General
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APPENDIX D

PALEONTOLOGICAL RESOURCES ASSESSMENT

WESTERN SCIENCE CENTER

November 1st, 2022

BCR Consulting, LLC
Joseph Orozco
505 W. 8th St.
Claremont, CA 91711

Dear Mr. Orozco,

This letter presents the results of a record search conducted for the Meines Street and Palm Avenue Project located in the city of Highland, San Bernardino County, CA. The project site is north of Meines Street and west of Palm Avenue on Township 1 South, Range 3 West, on Section 5 of the *Redlands, CA* USGS 7.5 minute quadrangles.

The geologic units underlying the project area are mapped primarily as alluvial sand and clay deposits from Holocene epoch (Dibblee and Minch 2004). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching Pleistocene alluvial sediments would increase. The Western Science Center does not have localities within the project area or within a 1 mile radius.

While the presence of any fossil material is unlikely, if excavation activity disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene periods, the material would be scientifically significant. Excavation activity associated with the development of the project area is unlikely to be paleontologically sensitive, but caution during development should be observed.

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

Sincerely,

Brittney Elizabeth Stoneburg, MSc
Collections Manager

Meines Street and Palm Avenue Project

project area + one mile radius

Legend

- 1 Mile Radius
- Meines Street and Palm Avenue Project
- Q: Quaternary alluvium and marine deposits (Pliocene to Holocene)

SAN GORGONIO
SAN ANDREAS
CROSSROADS
Central Ave
Palm Ave
Boulder Ave
Beaver Medical Group - Highland
Albertsons
Griffin Audio
Base Line St
Highland
AAA Highland Insurance and Member Services
Immanuel Baptist School
LANKERSHIM
CYPRESS
9th St
210
Victoria Ave
Stater Bros. Markets
EAST HIGHLANDS
W 5th St
Greenspot Rd
In-N-Out Burger
Lowe's Home Improvement
3rd St
Amazon Air Freight Fulfillment Center
Alabama St
Orange St
Survey
Google Earth
Santa Ana River
N
4000 ft

APPENDIX E

PROJECT PHOTOGRAPHS

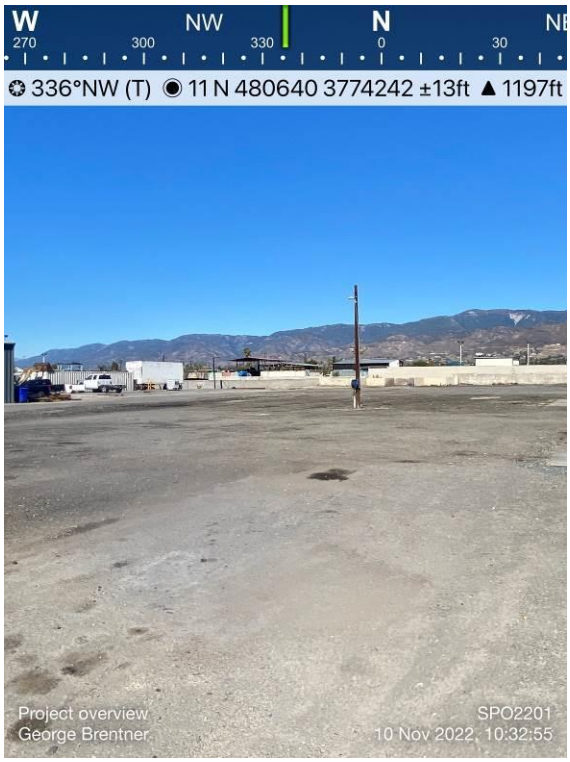

Photo 1: Project Overview (View NW)

Photo 2: Project Overview (View SW)

Photo 3: Project Overview (View N)

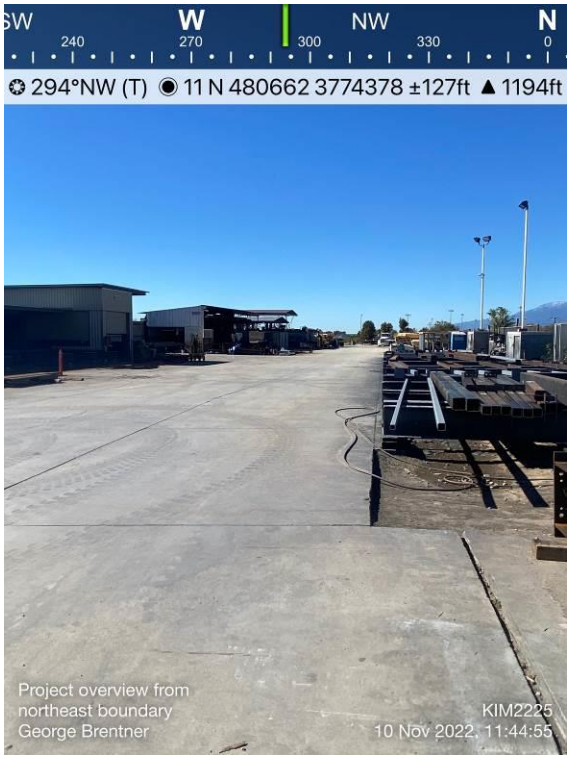

Photo 4: Project Overview (View W)

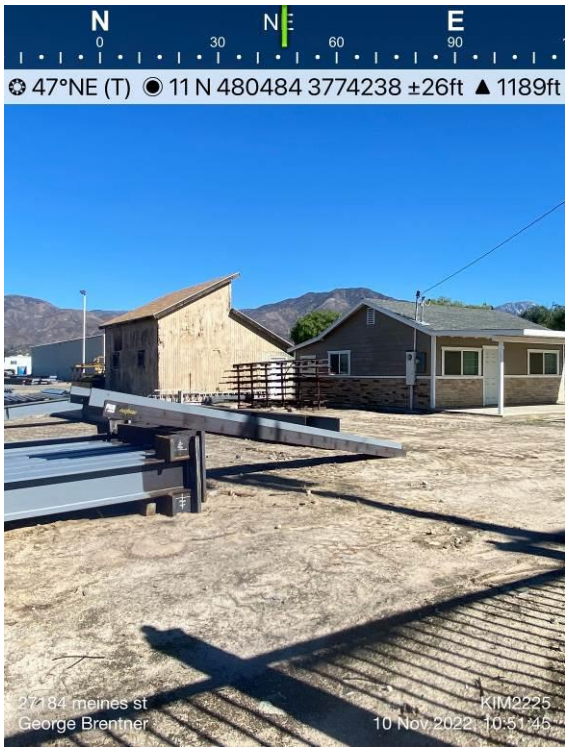

Photo 5: Project Overview (View NE)

Photo 6: Project Overview (View NE)

Appendix D

Energy Assessment

Energy Assessment
Meines Street and Palm Avenue Warehouse
Highland, California

Prepared by:

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Contact: Mr. Ryan Chiene
714.705.1343

May 2023

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1 INTRODUCTION

This report documents the results on the Energy Assessment to evaluate potential short- and long-term energy consumption impacts of the Meines Street and Palm Avenue Warehouse (Project). The assessment evaluates the potential construction and operational energy consumption associated with the Project and determine the level of impact the Project would have on the environment.

1.1 Project Location

The proposed Project is located at the northwest corner of Meines Street and Palm Avenue in the City of Highland, California (City). The proposed site consists of 14 parcels (APN 1192-601-05, -09, and -43; 1192-621-02 through -08, and -20 through -23) on 12.8 acres. Currently, the site is used for industrial and non-conforming single-family residential uses. The Project site is relatively flat and has elevations ranging from approximately 1,175 to 1,193 feet above mean sea level (amsl). The site's topographic slightly slopes down to the west.

The Project site is bounded by the City Creek stormwater channel to the north, Palm Avenue to the east, Meines Street to the south, and an industrial lot to the west. In addition, the proposed Project is located approximately 1.2-mile northeast of the San Bernardino International Airport (SBIA).

Local access to the Project site is provided via Meines Street and Palm Avenue. The nearest major freeways to the site include Interstate 210 (I-210), located approximately 0.55-mile to the east and Interstate 10 (I-10), located approximately 2.86 miles to the south of the site; refer to Exhibit 1: Regional Vicinity Map and Exhibit 2: Site Vicinity Map.

1.2 Project Description

The Project proposes the development of single new industrial concrete tilt-up dock high warehouse building totaling 284,917 square feet, including 5,000 square feet of office space and 3,000 feet of mezzanine space. The structure will be supported by a screened truck yard, vehicular parking areas, tractor-trailer storage stalls, drive aisles, and landscaped areas. On-site improvements will include storm drains, stormwater/water quality treatment facilities (including underground infiltration chambers), sewer (including a private lift station), water, and dry utility systems. Additionally, minor onsite slopes and deepened building panels will be utilized. Vehicular access to the Project site will be provided by two new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site. The Project provides a total of 240 parking spaces that includes 47 trailer stalls, 159 standard auto stalls, and 34 compact auto stalls. Refer to Exhibit 3: Site Plan for further Project details.

The Project would increase onsite impermeable areas as a result of the construction of a 284,917-SF warehouse building and parking areas. However, the Project would also create a storm drain connection to the existing channel near the northwest corner of the Project site.

Project Phasing

The Project is anticipated to be developed in one phase. Construction activity is anticipated to occur over a duration of approximately 10 months, beginning in October 2023.

General Plan Land Use and Zoning Designations

As designated by the City's Development Code, the Project site has a General Plan land use designation of Industrial (I) and a Zoning designation of Industrial (I). As such, the Project is anticipated to be consistent with the existing land use and zoning.

Site Access

Local access to the Project site is provided via Meines Street, which traverses the south of the site in a west-east direction, Palm Avenue that traverses east of the site in a north-south direction. Regional access to the Project site is via the W 5th Street off-ramp from I-210. The Project would include two (2) new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The Project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site.

Walls and Fences

The Project would include the following walls and fences on-site:

- An 8-foot-high metal fence would be located along the northwestern, northeastern, and western boundaries of the Project site;
- A 10-foot-high screen wall would run along the northern property line and would also surround the truck trailer parking and loading dock area in the northern portion of the site; and
- Two 8-foot-high metal gates would border the western and eastern boundaries of the truck loading area in the northern portion of the site.

Parking

The Project proposes to provide a total of 240 parking spaces that include 159 standard parking stalls (9 feet by 19 feet), 34 compact auto stalls (9 feet by 14 feet), and 47 trailer parking stalls (10 feet by 53 feet). Trailer stalls would be positioned along the northern Project boundary to the north of the loading dock area. The proposed auto standard parking stalls would be provided along the northeast, east, and west portions of the site.

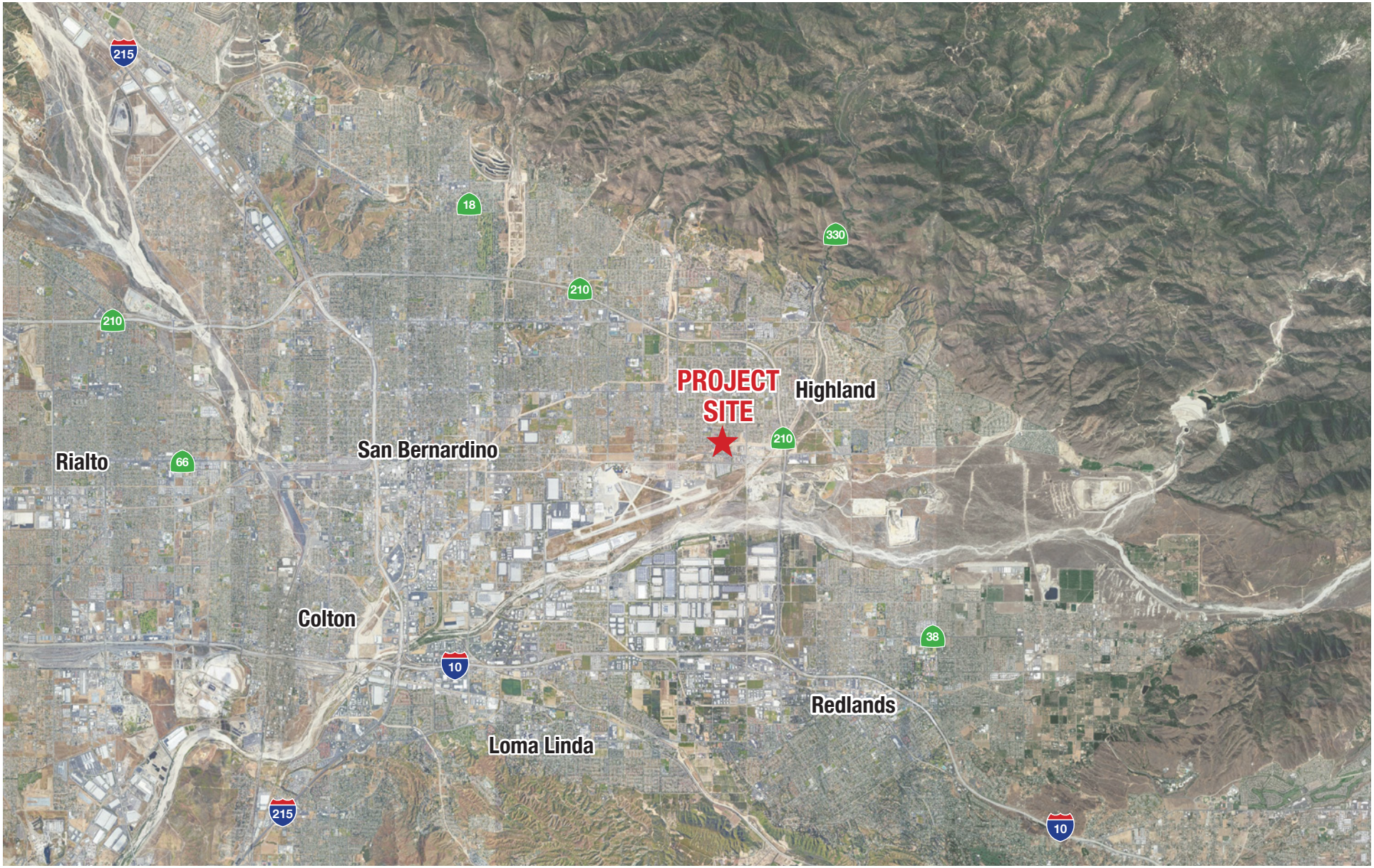

EXHIBIT 1: Regional Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

Kimley»Horn
Expect More. Experience Better.

EXHIBIT 2: Site Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

Kimley»Horn
Expect More. Experience Better.

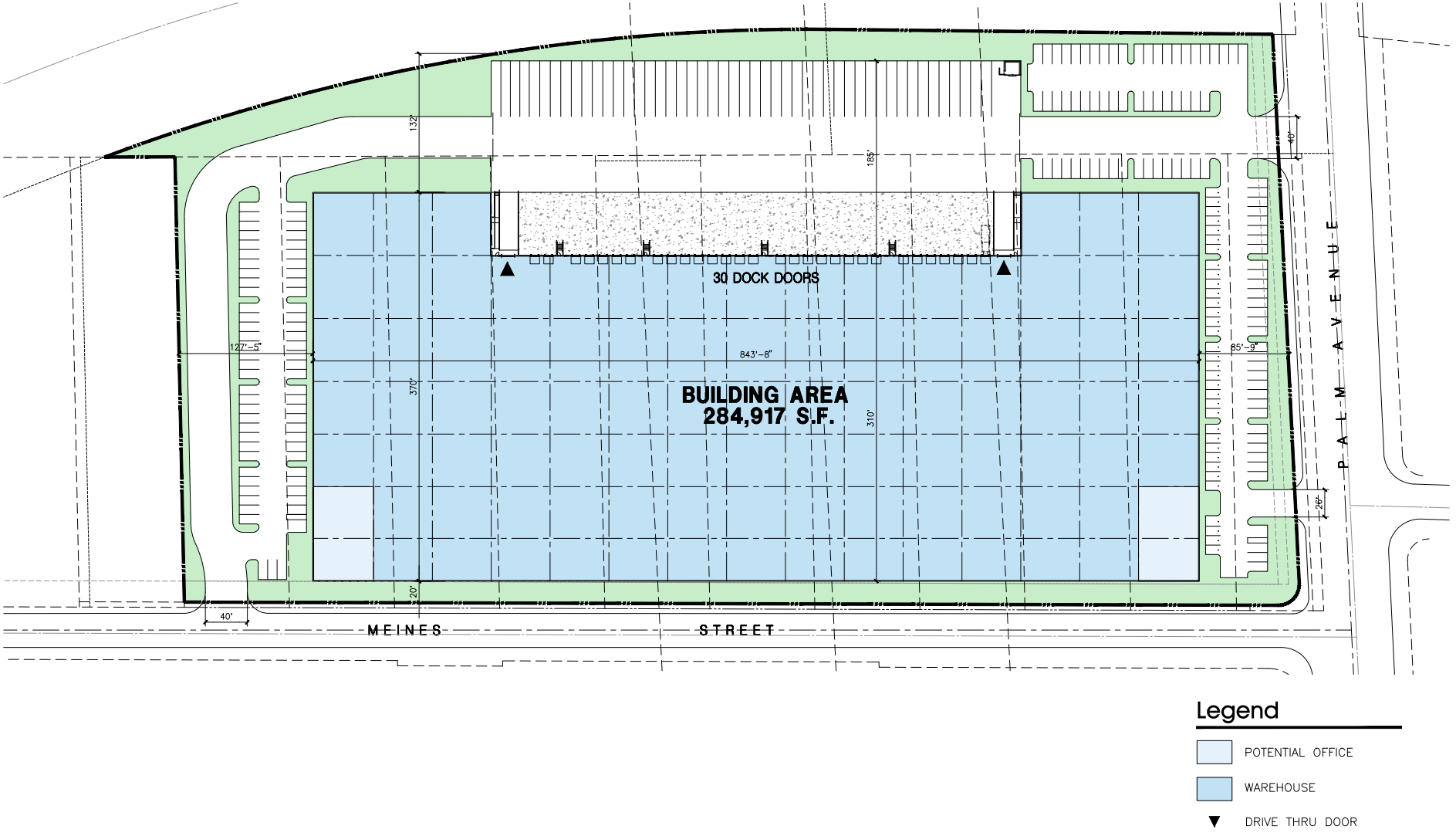

EXHIBIT 3: Site Plan

Meines Street and Palm Avenue Warehouse Project

City of Highland

Not to Scale

Kimley»Horn

Expect More. Experience Better.

2 ENVIRONMENTAL SETTING

2.1 Energy Conservation

In 1975, largely in response to the oil crisis of the 1970s, the California State Legislature adopted Assembly Bill 1575 (AB 1575), which created the California Energy Commission (CEC). The statutory mission of the CEC is to forecast future energy needs, license thermal power plants of 50 megawatts or larger, develop energy technologies and renewable energy resources, plan for and direct State responses to energy emergencies, and, perhaps most importantly, promote energy efficiency through the adoption and enforcement of appliance and building energy efficiency standards. AB 1575 also amended Public Resources Code Section 21100(b)(3) to require Environmental Impact Reports (EIRs) to consider the wasteful, inefficient, and unnecessary consumption of energy caused by a project. Thereafter, the State Resources Agency created Appendix F, *Energy Conservation*, in the California Environmental Quality Act Guidelines (CEQA Guidelines). CEQA Guidelines Appendix F is an advisory document that assists EIR preparers in determining whether a project will result in the inefficient, wasteful, and unnecessary consumption of energy.

In addition, the California Natural Resources Agency finalized updates to the CEQA Guidelines in December 2018. CEQA Guidelines Section 15126.2(b) treats "wasteful, inefficient, or unnecessary" energy consumption as a significant environmental impact. As a result, energy thresholds have been incorporated into Appendix G of the CEQA Guidelines. This report has been prepared to assess energy impacts in accordance with Appendix G of the CEQA Guidelines.

2.2 Energy Consumption

Energy consumption is analyzed in this technical memorandum due to the potential direct and indirect environmental impacts associated with the Project. Such impacts include the depletion of nonrenewable resources and emissions of pollutants during both construction and long-term operational phases.

Electrical Service. Southern California Edison (SCE) provides electrical services to the City of Highland (City) through State-regulated public utility contracts. Over the past 15 years, electricity generation in California has undergone a transition. Historically, California has relied heavily on oil- and gas-fired plants to generate electricity. Spurred by regulatory measures and tax incentives, California's electrical system has become more reliant on renewable energy sources; including cogeneration, wind energy, solar energy, geothermal energy, biomass conversion, transformation plants, and small hydroelectric plants. Unlike petroleum production, electricity generation is not usually tied to the location of the fuel source and can be delivered great distances via the electrical grid. The generating capacity of a unit of electricity is expressed in megawatts (MW). Net generation refers to the gross amount of energy produced by a unit, minus the amount of energy the unit consumes. Generation is typically measured in megawatt-hours (MWh), kilowatt-hours (kWh), or gigawatt-hours (GWh).

Natural Gas Services. Southern California Gas Company (SoCalGas) provides natural gas services to the City of Highland (City) and San Bernardino County (County). Natural gas is a hydrocarbon fuel found in reservoirs beneath the Earth's surface and is composed primarily of methane (CH_4). It is used for space and water heating, process heating and electricity generation, and as transportation fuel. Use of natural gas to generate electricity is expected to increase in coming years because it is a relatively clean alternative to other fossil fuels (e.g., oil and coal). In California and throughout the western United States, many new electrical generation plants fired by natural gas are being brought online. Thus, there is great

interest in importing liquefied natural gas from other parts of the world. California's natural gas-fired electric generation increased by 2 percent in 2021, accounting for 50 percent of in-state generation.[1]

Energy Usage. Energy usage is typically quantified using the British Thermal Unit (BTU). Total energy usage in California was 6,922.8 trillion BTUs in 2020 (the most recent year for which this specific data is available).[2] Of California's total energy usage, the breakdown by sector is 34.0 percent transportation, 24.6 percent industrial, 19.6 percent commercial, and 21.8 percent residential.[3] Electricity and natural gas in California are generally consumed by stationary users such as residences, commercial, and industrial facilities, whereas petroleum consumption is generally accounted for by transportation-related energy use. In 2022, taxable gasoline sales (including aviation gasoline) in California accounted for 13,919,678,835 gallons of gasoline.[4]

The electricity consumption attributable to the County from 2011 to 2021 is shown in Table 1: Electricity Consumption in San Bernardino County 2011-2021. As indicated in Table 1, energy consumption in the County steadily increased between 2011 to 2021 with the exception of 2019 in which energy decreased slightly from previous years.

Table 1: Electricity Consumption in San Bernardino County 2011-2021

Year	Electricity Consumption (in millions of kilowatt hours)
2011	13,730
2012	14.348
2013	14,374
2014	14,731
2015	14,731
2016	14,946
2017	15,282
2018	15,376
2019	15,316
2020	15,969
2021	16,181

Source: California Energy Commission, *Electricity Consumption by County*, http://www.ecdms.energy.ca.gov/, accessed May 2, 2023.

The natural gas consumption attributable to the County from 2011 to 2021 is shown in Table 2: Natural Gas Consumption in San Bernardino County 2011-2021. Natural gas consumption in the County fluctuated with increases and decreases occurring annually.

1 California Energy Commission, *2021 Total System Electric Generation*, https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2021-total-system-electric-generation, accessed May 2, 2023.

2 U.S. Energy Information Administration, *Table F33: Total energy consumption, price, and expenditure estimates, 2020,* https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_te.html&sid=CA, accessed May 2, 2023.

3 U.S. Energy Information Administration, *California State Profile and Energy Estimates*, *California Energy Consumption by End-Use Sector, 2020*, https://www.eia.gov/state/?sid=CA#tabs-2, accessed May 2, 2023.

4 California Department of Tax and Fee Administration, *January 2022 – Motor Vehicle Fuel 10 Year Reports*, https://www.cdtfa.ca.gov/taxes-and-fees/spftrpts.htm, accessed May 2, 2023.

Table 2: Natural Gas Consumption in San Bernardino County 2011-2021	
Year	**Natural Gas Consumption (in millions of therms)**
2011	504
2012	489
2013	511
2014	469
2015	485
2016	494
2017	493
2018	500
2019	547
2020	527
2021	561
Source: California Energy Commission, *Natural Gas Consumption by County*, http://www. ecdms.energy.ca.gov/, accessed May 2, 2023.	

Automotive fuel consumption in the County from 2012 to 2022 is shown in Table 3: Automotive Fuel Consumption in San Bernardino County 2012-2022. As shown in Table 3, on-road automotive fuel consumption in the County increased between 2012 and 2019 and fluctuated from 2020 to 2022. Heavy-duty vehicle fuel consumption steadily increased between 2012 and 2022 with a slight decrease in 2018, and 2019.

Table 3: Automotive Fuel Consumption in San Bernardino County 2012-2022		
Year	**On-Road Automotive Fuel Consumption (gallons)**	**Heavy-Duty Vehicle/Diesel Fuel Consumption (gallons)**
2012	823,998,577	221,468,396
2013	824,054,602	231,100,540
2014	834,846,492	233,757,358
2015	863,626,512	236,687,334
2016	888,752,451	251,535,041
2017	896,771,954	263,723,118
2018	897,385,756	259,783,109
2019	898,685,412	261,139,639
2020	767,569,916	265,477,739
2021	874,282,902	272,787,528
2022	873,015,917	276,240,473
Source: California Air Resources Board, EMFAC2021.		

3 REGULATORY SETTING

3.1 State of California

California's Energy Efficiency Standards for Residential and Non-Residential Buildings (Title 24)

Energy conservation standards for new residential and nonresidential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the California Energy Commission) in June 1977 and are updated every three years (Title 24, Part 6, of the California Code of Regulations). Title 24 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods. On June 10, 2015, the CEC adopted the 2016 Building Energy Efficiency Standards, which went into effect on January 1, 2017. On May 9, 2018, the CEC adopted the 2019 Building Energy Efficiency Standards, which took effect on January 1, 2020. The 2022 version of Title 24 was adopted by the California Energy Commission (CEC) and became effective on January 1, 2023.

The 2016 Standards improved upon the previous 2013 Standards for new construction of and additions and alterations to residential and nonresidential buildings. Under the 2016 Standards, residential buildings are 28 percent more energy efficient and nonresidential buildings are 5 percent more energy efficient than under the 2013 Standards. Buildings that are constructed in accordance with the 2013 Building Energy Efficiency Standards are 25 percent (residential) to 30 percent (nonresidential) more energy efficient than the prior 2008 standards as a result of better windows, insulation, lighting, ventilation systems, and other features.

The 2019 Standards improve upon the 2016 Standards. Under the 2019 Title 24 standards, residential buildings are about 7 percent more energy efficient, and when the required rooftop solar is factored in for low-rise residential construction, residential buildings that meet 2019 Title 24 standards use about 53 percent less energy than those built to meet the 2016 standards.

The 2022 Title 24 standards became effective January 1, 2023, and will result in less energy use, thereby reducing air pollutant emissions associated with energy consumption across California. For example, the 2022 Title 24 standards will require efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, and strengthens ventilation standards.

On August 11, 2021, the CEC adopted the 2022 Energy Code. In December, it was approved by the California Building Standards Commission for inclusion into the California Building Standards Code. Among other updates like strengthened ventilation standards for gas cooking appliances, the 2022 Energy Code includes updated standards in three major areas:

- New electric heat pump requirements for residential uses, schools, offices, banks, libraries, retail, and grocery stores.

- The promotion of electric-ready requirements for new homes including the addition of circuitry for electric appliances, battery storage panels, and dedicated infrastructure to allow for the conversion from natural gas to electricity.

- The expansion of solar photovoltaic and battery storage standards to additional land uses including high-rise multifamily residences, hotels and motels, tenant spaces, offices, (including

medical offices and clinics), retail and grocery stores, restaurants, schools, and civic uses (including theaters auditoriums, and convention centers).

The California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, is a statewide mandatory construction code that was developed and adopted by the California Building Standards Commission and the California Department of Housing and Community Development. CALGreen standards require new residential and commercial buildings to comply with mandatory measures under five topical areas: planning and design; energy efficiency; water efficiency and conservation; material conservation and resource efficiency; and environmental quality. CALGreen also provides voluntary measures (CALGreen Tier 1 and Tier 2) that local governments may adopt which encourage or require additional measures in the five green building topics. The most recent update to the CALGreen Code was adopted in 2022 and went into effect January 1, 2023. Projects whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code.[5]

California Public Utilities Commission Energy Efficiency Strategic Plan

The California Public Utilities Commission (CPUC) prepared an Energy Efficiency Strategic Plan in 2011 with the goal of promoting energy efficiency and a reduction in greenhouse gases. AB 1109, adopted in 2007, also serves as a framework for lighting efficiency. This bill requires the State Energy Resources Conservation and Development Commission to adopt minimum energy efficiency standards as a means to reduce average Statewide electrical energy consumption by not less than 50 percent from the 2007 levels for indoor residential lighting and not less than 25 percent from the 2007 levels for indoor commercial and outdoor lighting by 2018. According to the Energy Efficiency Strategic Plan, lighting comprises approximately one-fourth of California's electricity use while non-residential sector exterior lighting (parking lot, area, walkway, and security lighting) usage comprises 1.4 percent of California's total electricity use, much of which occurs during limited occupancy periods.

Renewable Portfolio Standard

In 2002, California established its Renewable Portfolio Standard program with the goal of increasing the annual percentage of renewable energy in the State's electricity mix by the equivalent of at least 1 percent of sales, with an aggregate total of 20 percent by 2017. The California Public Utilities Commission subsequently accelerated that goal to 2010 for retail sellers of electricity (Public Utilities Code Section 399.15(b)(1)). Then-Governor Schwarzenegger signed Executive Order S-14-08 in 2008, increasing the target to 33 percent renewable energy by 2020. In September 2009, then-Governor Schwarzenegger continued California's commitment to the Renewable Portfolio Standard by signing Executive Order S-21-09, which directs the California Air Resources Board under its AB 32 authority to enact regulations to help the State meet its Renewable Portfolio Standard goal of 33 percent renewable energy by 2020. In September 2010, the California Air Resources Board adopted its Renewable Electricity Standard regulations, which require all of the State's load-serving entities to meet this target. In October 2015, then-Governor Brown signed into legislation Senate Bill 350, which requires retail sellers and publicly owned utilities to procure 50 percent of their electricity from eligible renewable energy resources by 2030. Signed in 2018, SB 100 revised the goal of the program to achieve the 50 percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045. Under

[5] California Energy Commission, *2022 Building Energy Efficiency Standards*, https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency, accessed May 2023.

the bill, the State cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

3.2 City of Highland

City of Highland General Plan

The following are relevant policies of the Highland General Plan, which may contribute to reducing potential energy impacts.

Conservation and Open Space Element

Goal 5.16 **Continue to encourage, support, and adopt energy-conservation practices.**

Policy 5.16.1 Consolidate and adopt energy-saving practices for all City departments.

Policy 5.16.2 Monitor energy usage for all City facilities.

Policy 5.16.3 Provide information on free energy audits for the public given by public utilities.

Policy 5.16.4 Distribute energy-conservation information, in both English and Spanish, to residents and businesses.

Policy 5.16.5 Coordinate energy-related policies and actions with local utilities and energy agencies.

Goal 5.17 **Encourage site design practices that reduce and conserve energy use.**

Policy 5.17.1 Encourage energy and environmentally sustainable designs— such as "Green Development Standards"—in the design and approval of new projects.

Policy 5.17.3 Incorporate passive solar design techniques including building orientation, energy-saving materials, roof overhangs, and window and door placement.

Policy 5.17.4 Increase minimum building insulation standards.

Policy 5.17.7 Encourage energy-efficient retrofitting of existing buildings, where practical, throughout the City including assisting applicants in the installation of more efficient HVAC (heating, ventilation, air conditioning) systems.

Policy 5.17.8 Distribute and participate in incentive programs for incorporation of solar and photovoltaic panels (active solar) into existing or new buildings.

Policy 5.17.10 Adopt LEED (Leadership in Energy and Environmental Design) design standards for public buildings.

Policy 5.17.11 Participate in the CEEP (Community Energy Efficiency Program) Certificate and Recognition Program.

Policy 5.19.1 Reduce locally generated emissions through traffic flow improvements (including signal synchronization) and construction management practices.

Policy 5.19.13 Continue comprehensive efforts to reduce energy consumption.

Public Health and Safety Element

Policy 6.8.7 Support current incentive programs that recognize and reward developments using new and innovative emission reduction techniques such as innovative efficient window glazing, wall insulation, and ventilation systems; efficient air conditioning, heating, and appliances; use of passive solar design, and solar heating systems; use of energy cogeneration and/or use of waste energy; and landscape techniques that reduce water consumption and provide passive solar benefits.

Community Design Element

Goal 10.12 Encourage development that is energy efficient and environmentally sustainable.

Policy 10.12.1 Encourage landscaping practices that increase energy efficiency and conserve natural resources.

Policy 10.12.6 Encourage site planning and building orientation that maximizes solar and wind resources for cooling and heating.

Action 10.12.1 Participate in the CEEP (Community Energy Efficiency Program) Certificate and Recognition Program.

Action 10.12.2 Adopt LEED (Leadership in Energy and Environmental Design) design standards for public buildings.

Action 10.12.4 Continue to use water and energy conservation practices in all public buildings and on City property.

Action 10.12.5 Sponsor community outreach and educational programs that encourage local schools to study and participate in green building design practices.

4 SIGNIFICANCE CRITERIA AND METHODOLOGY

In accordance with State CEQA Guidelines, the effects of a project are evaluated to determine whether they would result in a significant adverse impact on the environment. This assessment focuses on these effects and offer mitigation measures to reduce or avoid any significant impacts that are identified. The criteria used to determine the significance of impacts may vary depending on the nature of the project. According to State CEQA Guidelines Appendix G, the proposed Project would have a significant impact related to energy, if it would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation; and/or

- Conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

The impact analysis focuses on the three sources of energy that are relevant to the proposed Project: electricity, natural gas, and transportation fuel for vehicle trips associated with the Project as well as the fuel necessary for Project construction. The analysis of the Project's electricity and natural gas use is based on the California Emissions Estimator Model (CalEEMod), which quantifies energy use for occupancy. The results of CalEEMod are included in the Project's Air Quality Assessment, prepared by Kimley-Horn (May 2023). Modeling related to Project energy use was based primarily on the default settings in CalEEMod. The amount of operational fuel use was estimated using CalEEMod outputs for the Project and CARB Emissions Factor (EMFAC) 2021 computer program for typical daily fuel use in Orange County. Construction fuel was calculated based on CalEEMod emissions outputs and conversion ratios from the Climate Registry.

5 POTENTIAL IMPACTS AND MITIGATION

Threshold 5.1 Would the project result in wasteful, inefficient, or unnecessary consumption of energy resources?

Threshold 5.2 Would the project conflict with or obstruct a State or local plan for renewable energy or energy efficiency?

Construction

The Project is anticipated to be constructed in one phase. Construction activity is anticipated to occur over a duration of approximately 10 months, beginning in October 2023. The energy associated with Project construction includes electricity use associated with water utilized for dust control, diesel fuel from on-road hauling trips, vendor trips, and off-road construction diesel equipment, as well as gasoline fuel from on-road worker commute trips. Because construction activities typically do not require natural gas, it is not included in the following discussion. The methodology for each category is discussed below. Quantifications of construction energy are provided by the Project below; see Table 4: Energy Use During Construction.

Table 4: Energy Use During Construction

Project Source	Total Construction Energy	San Bernardino County Annual Energy	Percentage Increase Countywide
Electricity Use		**GWh**	
Water Use[1]	0.0026	161,181	0.00002%
Diesel Use		**Gallons**	
On-Road Construction Trips[2]	37,606	279,150,963	0.0135%
Off-Road Construction Equipment[3]	91,335		0.0327%
Construction Diesel Total	128,941		0.0462%
Gasoline		**Gallons**	
On-Road Construction Trips	43,737	865,975,498	0.0051%

Notes:
1. Construction water use based on acres disturbed per day per construction sequencing and estimated water use per acre.
2. On-road mobile fuel source based on vehicle miles traveled (VMT) from CalEEMod and fleet-average fuel consumption in gallons per mile from EMFAC2021 in San Bernardino for 2023.
3. Construction fuel use was calculated based on CalEEEMod emissions outputs and conversion ratios from the Climate Registry.

Source: Refer to energy calculations in Appendix A: Energy Data.

Electricity

Water for Construction Dust Control. Electricity use associated with water use for construction dust control is calculated based on total water use and the energy intensity for supply, distribution, and treatment of water. The total number of gallons of water used is calculated based on acreage disturbed during grading and site preparation, as well as the daily watering rate per acre disturbed.

- The total acres disturbed are calculated using the methodology described in Chapter 4.2 of Appendix C of the CalEEMod User's Guide.
- The water application rate of 3,020 gallons per acre per day is from the Air and Waste Management Association's Air Pollution Engineering Manual (1992).

The energy intensity value is based on the CalEEMod default energy intensity per gallon of water for the South Coast Hydrologic Region. As summarized in Table 4, the total electricity demand associated with water use for the Project construction dust control would be approximately 0.0026 GWh over the duration of construction.

Petroleum Fuel

On-Road Diesel Construction Trips. The diesel fuel associated with on-road construction mobile trips is calculated based on vehicle miles traveled (VMT) from vehicle trips (i.e., worker, vendor, and hauling), the CalEEMod default diesel fleet percentage, and vehicle fuel efficiency in miles per gallon (MPG). VMT for the entire construction period is calculated based on the number of trips multiplied by the trip lengths for each phase shown in CalEEMod. Construction fuel was calculated based on CalEEMod emissions outputs and conversion ratios from the Climate Registry. Total diesel fuel consumption associated with on-road construction trips for the Project would be approximately 37,606 gallons (see Table 4).

Off-Road Diesel Construction Equipment. Similarly, the construction diesel fuel associated with the off-road construction equipment that is calculated based on CalEEMod emissions outputs and conversion ratios from the Climate Registry. The total diesel fuel associated with the Project off-road construction equipment is approximately 91,335 gallons (see Table 4). Combined diesel usage from on-road and off-road construction sources is 128,941 gallons.

On-Road Gasoline Construction Trips. The gasoline fuel associated with on-road construction mobile trips is calculated based on VMT from vehicle trips (i.e., worker, vendor, and hauling), the CalEEMod default gasoline fleet percentage, and vehicle fuel efficiency in MPG using the same methodology as the construction on-road trip diesel fuel calculation discussed above. The total gasoline fuel associated with Project on-road construction trips would be approximately 43,737 gallons (see Table 4).

Construction Energy Use Analysis

As indicated in Table 4, Project construction electricity would represent approximately 0.00002 percent of the current electricity use in San Bernardino County. In 2023, Californians are anticipated to use approximately 14,438,550,403 gallons of gasoline and approximately 3,189,559,232 gallons of diesel fuel.[6] San Bernardino County annual gasoline fuel use in 2023 is anticipated to be 865,975,498 gallons and diesel use would be approximately 279,150,963 gallons. Total Project construction gasoline fuel would represent approximately 0.005 percent of annual gasoline used in the County, and total Project construction diesel fuel would also represent 0.046 percent of annual diesel used in the County. Total Project construction gasoline and diesel fuel would also represent less than one percent (0.0003 percent and 0.004 percent, respectively) of the State's fuel use. Based on the total Project's relatively low construction fuel use proportional to annual County use, the Project would not substantially affect existing energy fuel supplies or resources. New capacity or additional sources of construction fuel are not anticipated to be required.

SCE's total energy sales are projected to be 94,230 GWh of electricity in 2023 (the first year of Project construction).[7] The Project's construction-related net annual electricity consumption of 0.0026 GWh would represent less than one percent of SCE's projected sales. Therefore, it is anticipated that SCE's existing and planned electricity capacity and electricity supplies would be sufficient to serve the Project's

[6] California Air Resources Board, *EMFAC 2021 Emissions Inventory*. Retrieved from CARB Website: https://arb.ca.gov/emfac/emissions-inventory/0a2cdd4bc96187e60199e39957d9118bd835b622. Accessed May 1, 2023.

[7] California Energy Commission, *CED 2022 LSE and BA planning Forecast Tables,* https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2022-integrated-energy-policy-report-update-2. Accessed May 2, 2023.

temporary construction electricity demand. Transportation fuels (gasoline and diesel) are produced from crude oil, which can be domestic or imported from various regions around the world. Based on current proven reserves, current crude soil production would be sufficient to meet demand until 2050.[8] As such, it is expected that existing and planned transportation fuel supplies would be sufficient to serve the Project's temporary construction demand.

Furthermore, there are no unusual characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in the region or state. In addition, some energy conservation would occur during construction through compliance with State requirements that equipment not in use for more than five minutes be turned off. Project construction equipment would also be required to comply with the latest EPA and CARB engine emissions standards. These engines use highly efficient combustion engines to minimize unnecessary fuel use.

The Project would have construction activities that would use energy, primarily in the form of diesel fuel (e.g., mobile construction equipment) and electricity (e.g., power tools). Contractors would be required to monitor air quality emissions of construction activities using applicable regulatory guidance such as from SCAQMD CEQA Guidelines. Additionally, construction is subject to and would comply with California regulations (e.g., California Code of Regulations, Title 13, Sections 2485 and 2449), which reduce diesel PM and criteria pollutant emissions from in-use off-road diesel-fueled vehicles and limit the idling of heavy-duty construction equipment to no more than five minutes. This requirement indirectly relates to construction energy conservation because when air pollutant emissions are reduced from the monitoring and the efficient use of equipment and materials, energy use is reduced. There are no aspects of the Project that would foreseeably result in the inefficient, wasteful, or unnecessary use of energy during construction activities.

Due to increasing transportation costs and fuel prices, contractors and owners have a strong financial incentive to avoid wasteful, inefficient, and unnecessary use of energy during construction. There is growing recognition among developers and retailers that sustainable construction is not prohibitively expensive and that there is a significant cost-savings potential in green building practices. Substantial reduction in energy inputs for construction materials can be achieved by selecting building materials composed of recycled materials that require substantially less energy to produce than non-recycled materials. The Project-related incremental increase in the use of energy bound in construction materials such as asphalt, steel, concrete, pipes, and manufactured or processed materials (e.g., lumber and gas) would not substantially increase demand for energy compared to overall local and regional demand for construction materials. It is reasonable to assume that production of building materials such as concrete, steel, etc., would employ all reasonable energy conservation practices in the interest in minimizing the costs of business.

As described above, the Project's fuel consumption and energy usage from the entire construction period would increase fuel use in the County by less than one percent. It should be noted that the State CEQA Guideline Appendix G and Appendix F criteria require the Project's effects on local and regional energy supplies and on the requirements for additional capacity to be addressed. A less than one percent increase in temporary demand is not anticipated to trigger the need for additional capacity. Project construction would have a nominal effect on the local and regional energy supplies. Additionally, use of construction fuel would be temporary and would cease once the Project is fully developed. As such, Project construction would have a nominal effect on the local and regional energy supplies.

[8] US Energy Information Administration. *California Energy Consumption Estimates*. Retrieved from EIA Website: https://www.eia.gov/state/print.php?sid=CA. Accessed May 2, 2023.

As stated above, there are no unusual characteristics that necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in the region or state. It is expected that construction fuel use associated with the Project would not be any more inefficient, wasteful, or unnecessary than other similar development projects of this nature. Therefore, potential impacts are considered less than significant.

Operations

The energy consumption associated with Project operations would occur from building energy (electricity and natural gas) use, water use, and transportation-related fuel use. Annual energy use during Project operations is shown in Table 5: Project Annual Energy Use During Operations. It is noted that the Project's unmitigated energy consumption estimates are provided in Table 5 to provide a conservative impact analysis.

Table 5: Project Annual Energy Use During Operations

Source	Annual Operational Energy[3]	San Bernardino County Annual Energy	Percentage Increase Countywide
Electricity Use		**GWh**	
Total Electricity (Electricity Demand + Water Conveyance)	1.63	16,181	0.0101%
Natural Gas Use		**Therms**	
Area[1]	54,839	561,360,617	0.0098%
Diesel Use		**Gallons**	
Mobile[2]	193,574	280,907,070	0.0079%
Gasoline Use		**Gallons**	
Mobile[2]	64,978	853,915,250	0.0689%

Notes:
1. The electricity, natural gas, and water usage are based on Project-specific estimates and CalEEMod defaults.
2. Calculated based on the mobile source fuel based on vehicle miles traveled (VMT) and fleet-average fuel consumption (in gallons per mile) from EMFAC2021 for operational year 2024.
3. Annual Operational Energy represents the mitigated operational from CalEEMod.

Source: Refer to energy calculations in Appendix A.

Petroleum Fuel

The gasoline and diesel fuel associated with on-road vehicular trips is calculated based on total VMT calculated for the analyses within the Project's Air Quality Assessment and average fuel efficiency from the EMFAC model. The EMFAC fuel efficiency data incorporates the Pavley Clean Car Standards and the Advanced Clean Cars Program.[9] As summarized in Table 5, the total gasoline and diesel fuel associated with on-road trips would be approximately 64,978 gallons per year and 193,574 gallons per year, respectively.

[9] The CARB EMFAC 2017 Technical Documentation from March 2018 notes that emissions are estimated with all current controls active, except Low Carbon Fuel Standards (LCFS). The reason for excluding LCFS is that most of the emissions benefits due to the LCFS come from the production cycle (upstream emissions) of the fuel rather than the combustion cycle (tailpipe). As a result, LCFS is assumed to not have a significant impact on CO2 emissions from EMFAC's tailpipe emission estimates.

Electricity

The electricity use during the Project is based on CalEEMod defaults. The Project would use approximately 1.63 GWh of electricity per year (see Table 5). While the electricity associated with operational water use is estimated based on the annual water use and the energy intensity factor is the CalEEMod default energy intensity per gallon of water for San Bernardino County. Project area water use is based on the CalEEMod default rates. The Project would use approximately 66 million gallons annually of water annually which would require approximately 0.451 GWh per year for conveyance and treatment, which is 27.67 percent of the total electricity demand. Unmitigated Project electricity consumption would only increase countywide electricity use by 0.0101 percent; see Table 5.

Natural Gas

The methodology used to calculate the natural gas use associated with the Project is based on CalEEMod default rates. As shown in Table 5, unmitigated natural gas consumption from the Project would represent only 0.0098 percent increase over Countywide natural gas usage.

Operational Energy Use Analysis

Californians used 280,738.4 GWh of electricity in 2021, of which San Bernardino County used 16,180.8 GWh.[10] The Project's unmitigated operational electricity use would represent a nominal portion of electricity used in the State and Riverside County. Regarding natural gas, Californians used 11.9 billion therms of natural gas and 561.4 million terms of natural gas in San Bernardino County in 2021. The Project's unmitigated operational natural gas use would contribute to only 0.0005 percent of natural gas use in the State and 0.0098 percent in the County.

San Bernardino County's annual gasoline fuel use in 2024 is anticipated to be 853,915,250 gallons and diesel fuel is anticipated to be 280,907,070 gallons. Expected Project operational gasoline and diesel consumption would represent approximately 0.0076 percent of gasoline use and 0.0689 of diesel use in the County.

Transportation fuels (gasoline and diesel) are produced from crude oil, which can be domestic or imported from various regions around the world. Based on current proven reserves, the global supply of crude oil, other liquid hydrocarbons, and biofuels is expected to be adequate to meet the world's demand for liquid fuels through 2050.[11]

The Project's unmitigated energy consumption represents less than one percent of energy consumption within the County. Project operations would not substantially affect existing energy or fuel supplies or resources. The Project would comply with applicable energy standards and new capacity would not be required. Impacts would be less than significant.

[10] California Energy Commission, *California Energy Consumption Database.* http://www.ecdms.energy.ca.gov/Default.aspx. Accessed May 2, 2023.

[11] U.S. Energy Information Administration, *International Energy Outlook 2021* IEO2021: Schedule, Focus, and Publication https://www.eia.gov/outlooks/ieo/pdf/IEO2021_Narrative.pdf. Accessed May 2, 2023.

Compliance with Energy Efficient Measures

As discussed above, California's Energy Efficiency Standards for Residential and Non-Residential Buildings create uniform building codes to reduce California's energy use and provide energy efficiency standards for residential and non-residential buildings. These standards are incorporated within the California Building Code and are expected to substantially reduce the growth in electricity and natural gas use. 2022 Title 24 standards for new residential and nonresidential buildings will focus on encouraging electric heat pump technology and use, promote electric-ready buildings to get owners to use cleaner electric heating, cooking, and vehicle charging, expanding solar photovoltaic systems and battery storage systems to reduce reliance on fossil fuel power plants.

Regarding water energy conservation, the Project would incorporate drought-tolerant landscaping throughout portions of the site. Water-efficient irrigation controls would also be used in landscaped areas. Comprehensive water conservation strategies would be developed to each respective land use as part of the Project plan development. Buildings would incorporate water-efficient fixtures and appliances, to comply with Title 24.

It should also be noted that SCE is subject to California's Renewables Portfolio Standard (RPS). The RPS requires investor-owned utilities, electric service providers, and community choice aggregators to increase total procurement from eligible renewable energy resources to 33 percent by 2020 and 50 percent by 2030. SB 100 revised the goal of the program to achieve the 50 percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045. Renewable energy is generally defined as energy that comes from resources which are naturally replenished within a human timescale such as sunlight, wind, tides, waves, and geothermal heat.

As discussed above, California's Energy Efficiency Standards create uniform building codes to reduce California's energy use and provide energy efficient standards for residential and non-residential buildings. These standards are incorporated within the California Building Code and are expected to substantially reduce the growth in electricity and natural gas use.

The Project's energy consumption would exceed less than one percent of the corresponding energy sources within the County. Project operations would not substantially affect existing energy or fuel supplies or resources. All Project buildings will comply with energy and fuel efficiency laws and regulations; thus, the Project would not be wasteful or inefficient. Therefore, the project would result in a less than significant impact in this regard.

Mitigation Measure: No mitigation is required.

Level of Significance: Less than significant impact.

Cumulative Impacts

Potential cumulative impacts to energy would result if the proposed Project, in combination with past, present, and future projects, would result in the wasteful or inefficient use of energy. This could result from development that would not incorporate sufficient building energy efficiency features, would not achieve building energy efficiency standards, or would result in the unnecessary use of energy during construction and/or operation.

The cumulative projects within the areas serviced by the energy service providers would be applicable to this analysis. Projects that include development of large buildings or other structures that would have the potential to consume energy in an inefficient manner would have the potential to contribute to a cumulative impact.

Construction and operations associated with implementation of the Project would result in the use of energy, but not in an inefficient or wasteful manner. The use of energy would not be substantial in comparison to statewide electricity, natural gas, gasoline, and diesel demand; refer to Table 4 and Table 5. As discussed above, the electricity used for construction would be less than that required during operation of the Project, would be temporary, and would have a minimal contribution to the Project's overall energy consumption. Construction of the Project would not typically involve the consumption of natural gas. The Project's construction electricity consumption would be negligible relative to SCE's generated electricity and electricity supplies would be sufficient to serve the Project's temporary construction electricity demand.

SCE will review the Project's estimated electricity consumption in order to ensure that the estimated power requirement would be part of the total load growth forecast for their service area and accounted for in the planned growth of the power system if the electricity demand was to increase past what the PV panels can provide. It should be noted that SCE and SoCalGas consider planned development for their service areas and are in and of themselves providing for cumulative growth. Therefore, it is likely that cumulative growth associated with the related projects is already accounted for in the planning of future supplies to cover projected demand.

SCE and SoCalGas have policies, programs, and projects in place to provide continued, adequate energy to their users, including the proposed Project. Substantial reductions to the cumulative demand for energy can result from an increased reliance on renewable energy systems (as required by the State's Renewable Portfolio Standards) and the construction of energy-efficient buildings. Cumulative projects would be subject to applicable Title 24 and CALGreen requirements similar to the Project, which includes energy efficiency standards to minimize the wasteful and inefficient use of energy.

Furthermore, transportation fuels (gasoline and diesel) are produced from crude oil, which can be domestic or imported from various regions around the world. Based on current proven reserves, current crude oil production would be sufficient to meet worldwide consumption demand until 2050. As such, it is expected that existing and planned transportation fuel supplies would be sufficient to serve the Project's construction and operational demand. New capacity or supplies of energy resources would not be required. Additionally, the Project would be subject to compliance with all federal, state, and local requirements for energy efficiency. State regulations, including the Low Carbon Fuel Standard, Pavley Clean Car Standards, and Low Emission Vehicle Program, would serve to reduce the transportation fuel demand of cumulative projects.

In consideration of cumulative energy use, the Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Additionally, as discussed above, the Project would increase overall electricity and natural gas demand but would not require additional facilities other than local connections to, or undergrounding of, existing facilities in the Project vicinity. Therefore, the proposed Project's incremental demand for electricity and natural gas facilities would not be cumulatively considerable. Thus, the Project would not contribute to a cumulative impact to the wasteful or inefficient use of energy. A less than significant cumulative impact would occur.

The Project would also be required to comply with all the same applicable federal, state, and local measures aimed at reducing fossil fuel consumption and the conservation of energy. The anticipated Project impacts, in conjunction with cumulative development in the vicinity, would increase urbanization and result in increased energy use. Potential land use impacts are site-specific and require evaluation on a case-by-case basis. As noted above, the Project would not result in significant impacts to state or local plans for renewable energy or energy efficiency. Therefore, the Project and identified cumulative projects are not anticipated to result in a significant cumulative impact. Therefore, potential impacts are considered less than significant.

6 REFERENCES

California Air Resources Board, EMFAC2021.

California Energy Commission, *2021 Total System Electric Generation*, https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2021-total-system-electric-generation, accessed May 2, 2023.

California Energy Commission, *2022 Building Energy Efficiency Standards*, https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency, accessed May 2, 2023.

California Energy Commission, *California Energy Consumption Database.* http://www.ecdms.energy.ca.gov/Default.aspx. Accessed May 2, 2023.

California Energy Commission, *CED 2022 LSE and BA planning Forecast Tables,* https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2022-integrated-energy-policy-report-update-2. Accessed May 2, 2023.

California Energy Commission, *Electricity Consumption by County*, http://www.ecdms.energy.ca.gov/, accessed May 2, 2023.

California Energy Commission, *Natural Gas Consumption by County*, http://www. ecdms.energy.ca.gov/, accessed May 2, 2023.

California Department of Tax and Fee Administration, *January 2022 – Motor Vehicle Fuel 10 Year Reports*, https://www.cdtfa.ca.gov/taxes-and-fees/spftrpts.htm, accessed May 2, 2023..

California Public Utilities Commission, Energy Efficiency Strategic Plan, 2011.

Southern California Edison, *The Clean Power and Electrification Pathway*, https://newsroom.edison.com/internal_redirect/cms.ipressroom.com.s3.amazonaws.com/166/files/20187/g17-pathway-to-2030-white-paper.pdf, accessed May 2, 2023.

U.S. Energy Information Administration. *California Energy Consumption Estimates*. Retrieved from EIA Website: https://www.eia.gov/state/print.php?sid=CA. Accessed May 2, 2023.

U.S. Energy Information Administration, *International Energy Outlook 2021* IEO2021: Schedule, Focus, and Publication https://www.eia.gov/outlooks/ieo/pdf/IEO2021_Narrative.pdf. Accessed May 2, 2023.

U.S. Energy Information Administration, *Table F32: Total energy consumption, price, and expenditure estimates, 2020,* https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_te.html&sid=CA, accessed May 2, 2023.

U.S. Energy Information Administration, *Table F33: Total energy consumption, price, and expenditure estimates, 2020,* https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_te.html&sid=CA, accessed May 2, 2023.

U.S. Energy Information Administration, *California State Profile and Energy Estimates*, https://www.eia.gov/state/?sid=CA, accessed May 2, 2023.

Appendix A

Energy Data

Construction Fuel Consumption

On-Site Diesel[1] (off-road construction Equipment)	$MTCO_2e$	Gallons of Fuel[4]	County Fuel in 2023 (Start of Construction)	Percent
Demolition	23	2,305		
Site Preparation/Grading	697	68,621		
Building Construction	189	18,660		
Paving	14	1,360		
Architectural Coating	4	389		
Total	927	91,335	279,150,963	0.0327%

Off-Site Diesel[1] (on-road construction trips)				
Demolition	71	6,966		
Site Preparation/Grading	0	0		
Building Construction	311	30,640		
Paving	0	0		
Architectural Coating	0	0		
Total	382	37,606	279,150,963	0.0135%

Off-Site Gasoline[2]				
Demolition	1	160		
Site Preparation/Grading	29	3,269		
Building Construction	329	37,344		
Paving	2	205		
Architectural Coating	24	2,758		
Total	385	43,737	865,975,498	0.0051%

Total Diesel Fuel		128,941	279,150,963	0.0462%
Total Gasoline Fuel		43,737	865,975,498	0.0051%
Total Construction Fuel	1,694	172,678		

Construction Phase[3]	Demolition			Site Preparation			Grading/Infrastructure Improvements		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)
2023	23	71	1	104	0	5	526	0	22
2024	0	0	0	0	0	0	67	0	3
Total	**23**	**71**	**1**	**104**	**0**	**5**	**593**	**0**	**24**

Construction Phase[3]	Building Construction			Paving			Architectural Coating		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)
2023	95	157	167	0	0	0	0	0	0
2024	94	154	162	14	0	2	4	0	24
Total	**189**	**311**	**329**	**14**	**0**	**2**	**4**	**0**	**24**

Notes:

[1] Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

[2] Fuel used for worker trips assumed to be gasoline.

[3] $MTCO_2e$ rates from CalEEMod (3.0 Construction Emissions Details).

[4] For CO2e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Construction Water Energy

Daily Soil Disturbance[1]	4.0	acres
Days of Soil Disturbance[2]	40	days
Water Concentration[3]	3,020	gallons/acre
Water Energy Intensity[4]	5,306	kWh/MG
Total Construction Water	0.48	million gallons
Construction Water Energy	2,564	kWh
	0.0026	GWh
San Bernardino County Annual Electricity	16,181	GWh
Percentage Increase	0.00002%	

Notes:

[1] Total daily acres disturbed from offroad equipment per CalEEMod (3.0 Construction Emissions Detail) and maximum SCAQMD LST values for soil-disturbing equipment.

[2] Number of days of construction with soil-disturbing equipment per CalEEMod (5.1 Construction Schedule).

[3] Water application rate per Air and Waste Management Association's Air Pollution Engineering Manual.

[4] Water energy intensity factor for subarea per CalEEMod User Guide, Appendix G, Tab G-32.

Operational Fuel

MITIGATED							
Vehicle Type	**Percent**	**Annual VMT[1]**	**MPG[2]**	**Annual Fuel (Gallons)**	**Fuel Type**	**SB County Gallons[3]**	**RS Percent**
Passenger Cars	1.00	1,403,520	21.6	64,978	Gas	853,915,250	0.0076%
Light/Medium Trucks	0.40	630,136	17.2	36,636	Diesel	280,907,070	0.0130%
Heavy Trucks/Other	0.60	957,322	6.1	156,938	Diesel	280,907,070	0.0559%
Trucks Total		1,587,458		193,574		280,907,070	0.0689%
Total		2,990,978					

Land Use[5]	**LDA**	**LDT1**	**LDT2**	**MCY**	**MDV**	**LHD1**	**LHD2**	**MHD**	**OBUS**	**UBUS**	**SBUS**	**MH**	**HHD**
Unrefrigerated Warehouse - No Rail	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	16.7939	22.9008	0.0000	0.0000	0.0000	0.0000	60.3053
General Office Building	65.4516	3.2715	15.3637	1.7051	11.8900	2.3180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Notes:

[1] Total annual operational VMT based on annual VMT from CalEEMod (5.9 Operational Mobile Sources).

[2] Average fuel economy derived from Department of Transportation.

[3] Total annual county fuel per EMFAC 2021 model of projected operational fuel usage.

Operational Water Energy

UNMITIGATED		
Unmitigated Indoor	65.5	million gallons
Indoor Energy Intensity Factor[1]	6,807	kWh/MG
Unmitigated Outdoor	1	million gallons
Outdoor Energy Intensity Factor[2]	5,306	kWh/MG
Operational Water Energy	451,045	kWh
Operational Water Energy	0.4510	GWh
San Bernardino County Annual Electricity	16,181	GWh
Percentage Increase	0.0028%	
MITIGATED		
Mitigated Indoor	171.0	million gallons
Indoor Energy Intensity Factor[1]	6,807	kWh/MG
Mitigated Outdoor	4	million gallons
Outdoor Energy Intensity Factor[2]	5,306	kWh/MG
Operational Water Energy	1,185,414	kWh
Operational Water Energy	1.1854	GWh
San Bernardino County Annual Electricity	16,181	GWh
Percentage Increase	0.0073%	

Land Use[3]	Unmitigated (gal/year)		Mitigated (gal/year)	
	Indoor	Outdoor	Indoor	Outdoor
Unrefrigerated Warehouse - No Rail	64,037,056	1,030,129	171,044,756	3,978,953
General Office Building	1,421,870	0	0	0
Total Operational Water (MG/year)	**65**	**1**	**171**	**4**

Notes:

[1] Indoor water energy intensity factor for subarea per CalEEMod User Guide, Appendix G, Tab G-32. Factor includes supply, treatment, distribution, and wastewater.

[2] Outdoor water energy intensity factor for subarea per CalEEMod User Guide, Appendix G, Tab G-32. Factor includes supply, treatment, and distribution.

[3] Operational water use values per CalEEMod (5.12 Operational Water and Wastewater Consumption).

Elecricity/Natural Gas Energy

UNMITIGATED			
	Unmitigated Project Annual Energy	San Bernardino County Annual Energy[3]	Percentage Increase
Electricity (kWh/yr)	1,632,262	16,180,811,158	0.0101%
Electricity (GWh/yr)	1.6323	16,181	0.0101%
Natural Gas (kBTU/yr)	5,483,900	56,136,061,700	0.0098%
Natural Gas (therms/yr)	54,839	561,360,617	0.0098%
MITIGATED			
	Mitigated Project Annual Energy	San Bernardino County Annual Energy[3]	Percentage Increase
Electricity (kWh/yr)	0	16,180,811,158	0.0000%
Electricity (GWh/yr)	0.0000	16,181	0.0000%
Natural Gas (kBTU/yr)	14,057,495	56,136,061,700	0.0250%
Natural Gas (therms/yr)	140,575	561,360,617	0.0250%

Land Use	Electricity[1] (kWh/yr)		Natural Gas[2] (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
Unrefrigerated Warehouse	1,278,997	0	5,264,380	14,057,495
Parking Lot	213,649	0	0	0
General Office Building	139,615		219,520	
Total Energy	**1,632,262**	**0**	**5,483,900**	**14,057,495**

Notes:

[1] Electricity use per CalEEMod (5.11 Operational Energy Consumption).

[2] Natural Gas use per CalEEMod (5.11 Operational Energy Consumption).

[3] County total energy values from California Energy Commission energy reports available through ecdms.energy.ca.gov. (year 2021)

Appendix E

Preliminary Geotechnical Evaluation

July 7, 2022 Project No. 22081-01

Mr. Tyler Banton
Lovett Industrial
1730 East Holly Avenue, #808
El Segundo, California 90245

Subject: ***Preliminary Geotechnical Evaluation, Proposed Industrial Development, Northwest of the Intersection of Meines Street & Palm Avenue, Highland, California***

In accordance with your request, LGC Geotechnical, Inc. has performed a preliminary geotechnical evaluation for the proposed industrial development to be located northwest of the intersection of Meines Street and Palm Avenue in the city of Highland, California. The purpose of our study was to evaluate the existing onsite geotechnical conditions and to provide preliminary geotechnical recommendations relative to the proposed development.

Should you have any questions regarding this report, please do not hesitate to contact our office. We appreciate this opportunity to be of service.

Respectfully,

LGC Geotechnical, Inc.

Ryan L. Douglas, GE 3147
Project Engineer

Kevin B. Colson, CEG 2210
Vice President

KBC/RLD/klr

Distribution: (5) Addressee (4 wet-signed copies and 1 electronic copy)

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1.0 INTRODUCTION

LGC Geotechnical has performed a geotechnical evaluation for the proposed redevelopment of the site located northwest of the intersection of Meines Street and Palm Avenue in the city of Highland, California. (Figure 1). This report summarizes our findings, conclusions, and preliminary geotechnical design recommendations relative to the proposed redevelopment of the site.

1.1 Project Description and Background

The approximately 13-acre, roughly rectangular-shaped site, currently consists of multiple industrial properties. The overall site is bound in the westerly direction by similar industrial property, to the north by "City Creek" drainage channel, to the east by Palm Avenue, and to the south by Meines Street.

The site is essentially flat at an elevation of approximately 1,185 feet above mean sea level (MSL). Surface drainage on the site is very gentle from northeast to southwest. The unlined, City Creek drainage channel is located north of the site. The channel is approximately 10 feet deep with sides at approximately 5:1 (horizontal to vertical) inclinations or flatter in the vicinity of the site.

We understand that the proposed redevelopment is to include grading and construction for an approximately 282,000 square-foot, one-story, warehouse building, associated parking, drive isles, water quality systems, and appurtenant improvements.

Preliminary building (dead plus live) loads were not provided at the time of this report. However, we have estimated a maximum structural (dead plus live) column and wall load of 125 kips and 8 kips per lineal foot, respectively. A preliminary grading plan was not available at the time of this report. However, proposed grades are not anticipated to significantly change from existing.

The recommendations given in this report are based on the layout and estimated structural loads and grading information as indicated above. LGC Geotechnical should be provided with any updated project information, plans and/or any structural loads when they become available, in order to either confirm or modify the recommendations provided herein.

1.2 Subsurface Exploration

Our subsurface evaluation consisted of the excavation of nine borings (HS-1 through HS-6 & I-1 through I-3), excavated using a truck-mounted drill rig equipped with 6 and 8-inch-diameter hollow-stem augers with depths ranging from approximately 2 to 21 feet below existing grade. Auger refusal was encountered in all borings prior to the target depth, with the exception of Infiltration Borings I-1 & I-2. Additional attempts for most of the borings were made to obtain greater depths. The 8-foot and 10-foot borings for I-1 through I-3 were excavated for field percolation testing. An LGC Geotechnical representative observed the drilling operations, logged the borings, and collected soil samples for laboratory testing. Driven soil samples were collected by means of the Standard Penetration Test (SPT) and Modified California Drive (MCD) sampler. The SPT sampler (1.4-inch ID) and MCD sampler (2.4-inch ID, 3.0-inch OD) were driven using a

140-pound hammer falling 30 inches to advance the sampler a total depth of 18 inches or until refusal. Bulk samples were also collected and logged for laboratory testing at select depths. The raw blow counts for each 6-inch increment of penetration were recorded on the boring logs. After removal of the augers, caving of the boreholes was measured in select borings and is noted on the boring logs. The borings were backfilled with cuttings. At the completion of infiltration testing of I-1 through I-3, the installed pipes were removed, and the resulting voids backfilled with native soils.

The approximate locations of our subsurface explorations are provided on Figure 2. The boring logs are provided in Appendix B.

1.3 Field Percolation Testing

Field percolation tests (I-1 through I-3) were performed to approximate depths ranging from 8 to 10 feet below existing grade. The approximate locations are shown on Figure 2. The borings for the percolation tests were excavated using a drill rig equipped with 8-inch diameter hollow-stem augers.

Field percolation testing was performed in general accordance with the guidelines set forth by the County of San Bernardino (2013). For the falling head test, a 3-inch-diameter slotted PVC pipe was placed in the boreholes to a depth of approximately 8 to 10 feet below existing grade and the annulus was backfilled with gravel to the surface including placement of approximately 2 inches of gravel at the bottom of the borehole. The infiltration wells were pre-soaked per the County guidelines. Based on the County of San Bernardino methodology, the observed infiltration rate, summarized in Table 1, has normalized the three-dimensional flow that occurs within the field test to a one-dimensional flow out of the bottom of the boring. The observed infiltration rates provided below in Table 1 do not include any factor of safety.

TABLE 1

Summary of Infiltration Testing

Infiltration Test Location	Infiltration Test Approx. Depth Below Existing Grade (ft)	Observed Infiltration Rate* (inch/hour)
I-1	10.0	8.2
I-2	9.5	8.5
I-3	8.0	13.3

*Normalized to One-Dimensional Flow, does not include any Factor of Safety.

It should be emphasized that infiltration test results are only representative of the location and depth where they are performed. Varying subsurface conditions may exist outside of the test locations which could alter the calculated infiltration rates indicated above. Infiltration tests are performed using relatively clean water free of particulates, silt, etc. Please refer to Section 4.9 for subsurface water infiltration recommendations.

1.4 Laboratory Testing

Representative bulk and driven samples were obtained for laboratory testing during our field evaluation. Laboratory testing included in-situ moisture content, collapse/swell, expansion index, and corrosion (sulfate, chloride, pH and minimum resistivity). A summary of the laboratory test results are presented in Appendix C.

- Dry density of the samples collected ranged from approximately 97 pounds per cubic foot (pcf) to 118 pcf, with an average of 109 pcf. Field moisture contents ranged from approximately 1 percent to 3 percent, with an average of 2 percent.
- One Expansion Index (EI) test indicated EI value of 1, corresponding to "Very Low" expansion potential.
- Two collapse/swell tests were performed. The collapse swell results are provided in Appendix C.
- Corrosion testing indicated soluble sulfate contents less than approximately 0.01 percent, a chloride content of 220 parts per million (ppm), pH of 6.8, and a minimum resistivity of 3,398 ohm-centimeters.

Laboratory test results obtained from our field evaluation are provided in Appendix C.

2.0 GEOTECHNICAL CONDITIONS

2.1 Regional Geology

The site is located in the flood plain for the Santa Ana River. The regional geologic map of the area indicates the site is underlain by "young axial-valley deposits", including silt, sand, gravel, cobble, and boulder deposits (USGS, 2003).

USGS Bulletin 1898 (USGS, 1991) indicates that the location of the site is not a zone mapped as susceptible to liquefaction. The Geologic Hazard Overlay for the San Bernardino County Land Use Plan indicates that the site is not located in a liquefaction hazard zone, a zone of landslide susceptibility, or County designated fault zones (County, 2009). The subject site is not located within a State of California Fault Rupture Hazard Zone (CGS, 2018). There are no known active or potentially active faults mapped on the site.

2.2 Site-Specific Geology and Generalized Subsurface Conditions

Based on our review of regional geologic maps for the area of the site (USGS, 2003), the project area is mapped as being underlain by Quaternary young axial-valley deposits, which generally include sand, gravel, cobble, and boulders. These native materials are likely locally overlain by thin areas of artificial fill associated with original development of the site. For the purposes of this study, areas of artificial fill are not differentiated from the alluvial deposits.

In general, our borings indicate that the site contains primarily medium dense to very dense sands with varying amounts of silt, gravel, and cobbles to the maximum explored depth of approximately 21 feet below existing grade. Blow counts of the hollow stem borings for sandy soils are very likely impacted by the presence of gravel and cobbles. Moisture contents are generally well below optimum.

It should be noted that borings are only representative of the location and time where/when they are performed, and varying subsurface conditions may exist outside of the performed location. In addition, subsurface conditions can change over time. The soil descriptions provided above should not be construed to mean that the subsurface profile is uniform, and that soil is homogeneous within the project area. For details on the stratigraphy at the exploration locations, refer to Appendix B.

2.3 Geologic Structure

Geologic structure was not identified in the subject site geotechnical evaluation. The alluvial materials encountered are generally massive, but may include low angle bedding, dipping in a westerly direction.

2.4 Landslides

Our research and field observations do not indicate the presence of landslides on the site or in the immediate vicinity. Review of regional geologic maps of the area do not indicate the presence of known or suspected landslides in the vicinity of the site (USGS, 2003).

The Geologic Hazard Overlay for the San Bernardino County Land Use Plan indicates that the site is not located in a a zone of landslide susceptibility (County, 2009).

2.5 Groundwater

Groundwater was not encountered during our subsurface evaluation to the maximum explored depth of approximately 21 feet below existing ground surface. USGS Bulletin 1898 (USGS, 1991) indicates that the minimum historic depth to groundwater at the site is greater than 50 feet.

Review of a geotechnical evaluation report by others (SCG, 2020), for a site located approximately 0.35 miles west of the site did not encounter groundwater to the total depth evaluation of 51 feet below the ground surface.

Groundwater and/or groundwater seepage conditions may occur in the future due to changes in land use and/or following periods of heavy rain. Seasonal fluctuations of groundwater elevations should be expected over time. In general, groundwater levels fluctuate with the seasons and local zones of perched groundwater may be present within the near-surface deposits due to local landscape irrigation or precipitation especially during rainy seasons.

2.6 Faulting

Prompted by damaging earthquakes in Northern and Southern California, State legislation and policies concerning the classification and land-use criteria associated with faults have been developed. The Alquist-Priolo Earthquake Fault Zoning Act was implemented in 1972 to prevent the construction of urban developments across the trace of active faults. California Geologic Survey Special Publication 42 was created to provide guidance for following and implementing the law requirements. Special Publication 42 was most recently revised in 2018 (CGS, 2018). According to the State Geologist, an "active" fault is defined as one which has had surface displacement within Holocene time (roughly the last 11,700 years). Regulatory Earthquake Fault Zones have been delineated to encompass traces of known, Holocene-active faults to address hazards associated with surface fault rupture within California. Where developments for human occupation are proposed within these zones, the state requires detailed fault evaluations be performed so that engineering-geologists can identify the locations of active faults and recommend setbacks from locations of possible surface fault rupture.

The subject site is not located within a State of California Fault Rupture Hazard Zone (CGS, 2018). The Geologic Hazard Overlay for the San Bernardino County Land Use Plan indicates that the site is not located in a County designated fault zone (County, 2009). There are no known active or potentially active faults mapped on the site. The possibility of damage due to ground rupture, as a result of faulting, is considered very low since active faults are not known to cross the site.

Secondary effects of seismic shaking resulting from large earthquakes on the major faults in the Southern California region, which may affect the site, include ground lurching and shallow ground rupture, soil liquefaction, dynamic settlement, seiches and tsunamis. These secondary effects of seismic shaking are a possibility throughout the Southern California region and are dependent on the distance between the site and causative fault and the onsite geology. A discussion of these secondary effects is provided in the following sections.

2.6.1 Lurching and Shallow Ground Rupture

Soil lurching refers to the rolling motion on the ground surface by the passage of seismic surface waves. Effects of this nature are not likely to be significant where the thickness of soft sediments do not vary appreciably under structures. Ground rupture due to active faulting is not likely to occur onsite due to the absence of known active fault traces. Ground cracking due to shaking from distant seismic events is not considered a significant hazard, although it is a possibility at any site.

2.6.2 Liquefaction and Dynamic Settlement

Liquefaction is a seismic phenomenon in which loose, saturated, granular soils behave similarly to a fluid when subject to high-intensity ground shaking. Liquefaction occurs when three general conditions coexist: 1) shallow groundwater; 2) low density non-cohesive (granular) soils; and 3) high-intensity ground motion. Studies indicate that saturated, loose near-surface cohesionless soils exhibit the highest liquefaction potential, while dry, dense, cohesionless soils and cohesive soils exhibit low to negligible liquefaction potential. In general, cohesive soils are not considered susceptible to liquefaction, depending on their plasticity and moisture content (Bray & Sancio, 2006). Effects of liquefaction on level ground include settlement, sand boils, and bearing capacity failures below structures. Dynamic settlement of dry loose sands can occur as the sand particles tend to settle and densify as a result of a seismic event.

USGS Bulletin 1898 (USGS, 1991) indicates that the location of the site is not a zone mapped as susceptible to liquefaction. The Geologic Hazard Overlay for the San Bernardino County Land Use Plan also indicates that the site is not located in a liquefaction hazard zone (County, 2009).

In general, the site will consist of compacted fill over medium dense to very dense alluvial soils. Due the absence of groundwater in the upper 50 feet and presence of medium dense to very dense sandy soils, the potential for liquefaction is considered very low.

2.6.3 Lateral Spreading

Lateral spreading is a type of liquefaction-induced ground failure associated with the lateral displacement of surficial blocks of sediment resulting from liquefaction in a subsurface layer. Once liquefaction transforms the subsurface layer into a fluid mass, gravity plus the earthquake inertial forces may cause the mass to move down-slope towards a free face (such as a river channel or an embankment). Lateral spreading may

cause large horizontal displacements and such movement typically damages pipelines, utilities, bridges, and structures.

Due to the very low potential for liquefaction the potential for lateral spreading is considered very low.

2.6.4 Tsunamis and Seiches

Based on the elevation of the site, with respect to sea level, there is a low possibility of damage to the site during a large tsunami event.

2.7 Seismic Design Parameters

The site seismic characteristics were evaluated per the guidelines set forth in Chapter 16, Section 1613 of the 2019 California Building Code (CBC) and applicable portions of ASCE 7-16 which has been adopted by the CBC. Please note that the following seismic parameters are only applicable for code-based acceleration response spectra and are not applicable for where site-specific ground motion procedures are required by ASCE 7-16. Representative site coordinates of latitude 34.1099 degrees north and longitude -117.2091 degrees west were utilized in our analyses. The maximum considered earthquake (MCE) spectral response accelerations (S_{MS} and S_{M1}) and adjusted design spectral response acceleration parameters (S_{DS} and S_{D1}) for Site Class C are provided in Table 2 on the following page. The structural designer should contact the geotechnical consultant if structural conditions (e.g., number of stories, seismically isolated structures, etc.) require site-specific ground motions.

TABLE 2

Seismic Design Parameters

Selected Parameters from 2019 CBC, Section 1613 - Earthquake Loads	**Seismic Design Values**	**Notes/Exceptions**
Distance to applicable faults classifies the site as a "Near-Fault" site.		Section 11.4.1 of ASCE 7
Site Class	C	Chapter 20 of ASCE 7
Ss (Risk-Targeted Spectral Acceleration for Short Periods)	2.403g	From SEAOC, 2022
S_1 (Risk-Targeted Spectral Accelerations for 1-Second Periods)	0.896g	From SEAOC, 2022
F_a (per Table 1613.2.3(1))	1.2	For Simplified Design Procedure of Section 12.14 of ASCE 7, F_a shall be taken as 1.4 (Section 12.14.8.1)
F_v (per Table 1613.2.3(2))	1.4	-
S_{MS} for Site Class C [Note: $S_{MS} = F_aS_S$]	2.884g	-
S_{M1} for Site Class C [Note: $S_{M1} = F_vS_1$]	1.255g	-
S_{DS} for Site Class C [Note: $S_{DS} = (^2/_3) S_{MS}$]	1.923g	-
S_{D1} for Site Class C [Note: $S_{D1} = (^2/_3) S_{M1}$]	0.837g	-
C_{RS} (Mapped Risk Coefficient at 0.2 sec)	0.913	ASCE 7 Chapter 22
C_{R1}(Mapped Risk Coefficient at 1 sec)	0.889	ASCE 7 Chapter 22

A deaggregation of the PGA based on a 2,475-year average return period (MCE) indicates that an earthquake magnitude of 7.27 at a distance of approximately 4.85 km from the site would contribute the most to this ground motion. A deaggregation of the PGA based on a 475-year average return period (Design Earthquake) indicates that an earthquake magnitude of 7.11 at a distance of approximately 5.58 km from the site would contribute the most to this ground motion (USGS, 2014).

Section 1803.5.12 of the 2019 CBC (per Section 11.8.3 of ASCE 7) states that the maximum considered earthquake geometric mean (MCE_G) Peak Ground Acceleration (PGA) should be used for liquefaction potential. The PGA_M for the site is equal to 1.188g (SEAOC, 2022). The design PGA is equal to 0.792g (2/3 of PGA_M).

2.8 Rippability

Excavation for grading should be achievable with the appropriate heavy earthwork equipment. Excavation difficulty may be encountered with light-duty equipment or hand excavation for deep, narrow excavations (trenches and drilled piles) due to cobbles and possible oversized material.

2.9 Oversized Material

Generation of a surplus of oversized material (material greater than 8 inches in maximum dimension) should be expected in the areas of abundant cobbles which may not be suitable for reuse in site fill, trench backfill, and retaining wall backfill. The need to "screen" onsite soils should be anticipated. Cobbles were observed and encountered, and boulder size material may also be present.

If feasible, crushing oversized materials onsite or exporting oversized materials may be considered. Incorporating oversized materials into "rock fills" (windrows, rock blankets or individual rock burial) is likely not feasible due to the limited depth of grading. Special handling recommendations should be provided on a case-by-case basis, if necessary. Recommendations are provided for appropriate handling of oversized materials in Appendix E.

3.0 FINDINGS AND CONCLUSIONS

Based on the results of our geotechnical evaluation, it is our opinion that the proposed site development is feasible from a geotechnical standpoint, provided the following conclusions and recommendations are incorporated into the site design, grading, and construction.

The following is a summary of the primary geotechnical factors, which may affect future development of the site.

- In general, our borings indicate that the site contains primarily dense sands with varying amounts of silt, gravel and cobble to the maximum explored depth of approximately 21 feet below existing grade. Moisture contents are generally well below optimum.
- Groundwater was not encountered to the maximum explored depth of approximately 21 feet below existing ground surface. Historic high groundwater is deeper than 50 feet below existing grade (USGS, 1991).
- The proposed development will likely be subjected to strong seismic ground shaking during its design life from one of the regional faults. The subject site is not located within an Alquist-Priolo Earthquake Fault Zone or County designated fault zone and no faults were identified on the site during our site evaluation.
- The site is not located in a seismic hazard zone for liquefaction potential. The site will consist of compacted fill over existing medium dense to very dense native soils. Due to the absence of groundwater the potential for liquefaction is considered very low.
- Soils exposed at the proposed foundation level are anticipated to have a "Very Low" expansion potential (EI not exceeding 20). This shall be confirmed at the completion of site earthwork.
- From a geotechnical perspective, the existing onsite soils are suitable material for use as general fill, provided that they are relatively free from rocks (larger than 8 inches in maximum dimension), construction debris, and significant organic material.
- Excavation for grading should be achievable with the appropriate equipment. Excavation difficulty may be encountered with light-duty equipment or hand excavation for deep, narrow excavations (trenches and drilled piles) due to oversized material. Caving of excavations due to friable sands should also be anticipated.
- Generation of a surplus of over-sized material, that may not be suitable for reuse in site fills, trench backfill, and retaining wall backfill should be expected. The need to "screen" onsite soils in order to remove over-sized materials should be anticipated.
- If feasible, crushing oversized materials onsite or exporting oversized materials may be considered. Incorporating oversized materials into "rock fills" (windrows, rock blankets or individual rock burial) is likely not feasible due to the limited depth of grading. Trench excavations should also be expected to have irregular sides and bottoms due to "plucking" of cobbles during excavation.
- On-site soils will most likely be suitable for backfill of site retaining walls provided the soils are screened of materials larger than 3 inches in maximum dimension.
- Field testing resulted in measured infiltration rates ranging from 8.2 to 13.3 inches per hour. The measured infiltration rates do not include a factor of safety. Discussion regarding infiltration is provided in Section 4.9.

4.0 RECOMMENDATIONS

The following recommendations are to be considered preliminary and should be confirmed upon completion of earthwork operations. In addition, they should be considered minimal from a geotechnical viewpoint, as there may be more restrictive requirements from the architect, structural engineer, building codes, governing agencies, or the City. It is the responsibility of the builder to ensure these recommendations are provided to the appropriate parties.

It should be noted that the following geotechnical recommendations are intended to provide sufficient information to develop the site in general accordance with the 2019 California Building Code (CBC) requirements. With regard to the potential occurrence of potentially catastrophic geotechnical hazards such as fault rupture, earthquake-induced landslides, liquefaction, etc. the following geotechnical recommendations should provide adequate protection for the proposed development to the extent required to reduce seismic risk to an "acceptable level." The "acceptable level" of risk is defined by the California Code of Regulations as "the level that provides reasonable protection of the public safety, though it does not necessarily ensure continued structural integrity and functionality of the project" [Section 3721(a)]. Therefore, repair and remedial work of the proposed improvement may be required after a significant seismic event. With regards to the potential for less significant geologic hazards to the proposed development, the recommendations contained herein are intended as a reasonable protection against the potential damaging effects of geotechnical phenomena such as expansive soils, fill settlement, groundwater seepage, etc. It should be understood, however, that although our recommendations are intended to maintain the structural integrity of the proposed development and structures given the site geotechnical conditions, they cannot preclude the potential for some cosmetic distress or nuisance issues to develop as a result of the site geotechnical conditions.

The geotechnical recommendations contained herein must be confirmed to be suitable or modified based on the actual exposed conditions.

4.1 Site Earthwork

We anticipate that earthwork at the site will consist of required earthwork removals, foundation construction and utility line construction and backfill. We recommend that earthwork onsite be performed in accordance with the following recommendations, 2019 CBC/ City of Highland and the General Earthwork and Grading Specifications included in Appendix E. In case of conflict, the following recommendations shall supersede previous recommendations and those included as part of Appendix E.

4.1.1 Site Preparation

Prior to grading of areas to receive structural fill, engineered structures or improvements, the existing structures and improvements should be demolished, and the area should be cleared of existing vegetation, surface obstructions, existing debris and potentially compressible or otherwise unsuitable material. Debris should be removed and properly disposed of off-site. Holes resulting from the removal of buried obstructions, which extend below proposed removal bottoms, should be replaced with suitable compacted fill material. Any abandoned utility lines should be completely removed and replaced with

properly compacted fill. Deeper demolition may be required in order to remove existing foundations. We recommend the trenches associated with demolition which extend below the remedial grading depth be backfilled and properly compacted prior to the demolition contractor leaving the site.

If cesspools or septic systems are encountered they should be removed in their entirety. The resulting excavation should be backfilled with properly compacted fill soils. As an alternative, cesspools can be backfilled with lean sand-cement slurry. Any encountered wells should be properly abandoned in accordance with regulatory requirements. At the conclusion of the clearing operations, a representative of LGC Geotechnical should observe and accept the site prior to further grading.

4.1.2 Removal Depths and Limits

Building Structures: In order to provide a relatively uniform bearing condition for the planned structural improvements, removals should extend a minimum depth of 5 feet below existing grade or 2 feet below the proposed footings, whichever is greater. In general, the envelope for removals should extend laterally a minimum horizontal distance of 5 feet beyond the edges of the proposed building footprint.

Retaining/Free-Standing Wall Structures: Removals should extend a minimum of 3 feet below existing grade, or 1-foot below proposed footings, whichever is greater. Where space is available, the envelope for removal and recompaction should extend laterally a minimum distance of 3 feet beyond the edges of the proposed minor site structure improvements.

Pavement and Hardscape Areas: Removals should extend to a depth of at least 2 feet below the existing grade. Removals in any design cut areas of the pavement may be reduced by the depth of the design cut but should not be less than 1-foot below the finished subgrade (i.e., below planned aggregate base/asphalt concrete). In general, the envelope for removals should extend laterally a minimum lateral distance of 2 feet beyond the edges of the proposed improvements.

Local conditions may be encountered during excavation that could require additional over-excavation beyond the above-noted minimum in order to obtain an acceptable subgrade including localized areas of undocumented fill. The actual depths and lateral extents of grading will be determined by the geotechnical consultant, based on subsurface conditions encountered during grading. Removal areas should be accurately staked in the field by the Project Surveyor.

4.1.3 Temporary Excavations

Temporary excavations should be performed in accordance with project plans, specifications, and all Occupational Safety and Health Administration (OSHA) requirements. In general, interior non-property line temporary slopes up to 10 feet in height should be sloped back to a maximum slope ratio of 1.5:1 (horizonal to vertical) or flatter. Temporary slopes excavated near existing temporary shoring may reduce the

stability of temporary shoring, if proposed this should be evaluated on a case-by-case basis. The temporary slope should not include a vertical cut. Prolonged exposure of backcut slopes during construction may result in localized slope instability. Sandy soils are present and should be considered susceptible to caving. Raveling of the sandy soils should be anticipated for temporary slopes. Flatter slope inclinations should be considered if raveling cannot be tolerated. The exposed slope surface may be kept surficially moist (but not saturated) during construction to reduce (not eliminate) potential sloughing. Soil conditions should be regularly evaluated during construction to verify conditions are as anticipated. The contractor shall be responsible for providing the "competent person" required by OSHA standards to evaluate soil conditions. Close coordination with the geotechnical consultant should be maintained to facilitate construction while providing safe excavations. Excavation safety is the sole responsibility of the contractor.

Surcharge loads (e.g., soil stockpiles, construction equipment, etc.) placed on top of the excavation/temporary slope should not be permitted within a horizontal distance equal to the height of the excavation/temporary slope from the top of the excavation or 5 feet from the top of the slope, whichever is greater, unless the cut is properly shored and designed for the applicable surcharge load. In general, any excavation that extends below a 1:1 (horizontal to vertical) projection of an existing foundation will remove existing support of the structure foundation. Once an excavation has been initiated, it should be backfilled as soon as practical. Prolonged exposure of temporary excavations may result in some localized instability. Excavations should be planned so that they are not initiated without sufficient time to shore/fill them prior to weekends, holidays, or forecasted rain.

It should be noted that any excavation that extends below a 1:1 (horizontal to vertical) projection of an existing foundation will remove existing support of the structure foundation. If requested, temporary shoring parameters can be provided.

4.1.4 Removal Bottoms and Subgrade Preparation

In general, removal bottom areas and any areas to receive compacted fill should be scarified to a minimum depth of 6 inches, brought to a near-optimum moisture condition, and re-compacted per project recommendations.

Removal bottoms and areas to receive fill should be observed and accepted by the geotechnical consultant prior to subsequent fill placement.

4.1.5 Material for Fill

From a geotechnical perspective, the onsite soils are generally considered suitable for use as general compacted fill (i.e., non-retaining wall backfill), provided they are screened of organic materials, construction debris and any oversized material (8 inches in greatest dimension). Moisture conditioning of site soils should be anticipated as outlined in the section below.

Any required retaining wall backfill should consist of sandy soils with a maximum of 35 percent fines (passing the No. 200 sieve) per American Society for Testing and Materials (ASTM) Test Method D1140 (or ASTM D6913/D422) and a Very Low expansion potential (EI of 20 or less per ASTM D4829). Soils should also be screened of organic materials, construction debris and any material greater than 3 inches in maximum dimension. The site may contain soils that are not suitable for retaining wall backfill due to oversize material and fines content, therefore select grading, stockpiling, and screening and/or import may be required by the contractor for obtaining suitable retaining wall backfill soil.

From a geotechnical viewpoint, any required import soils should consist of clean, relatively granular soils of Very Low expansion potential (expansion index 20 or less based on ASTM D4829) and no particles larger than 4 inches in greatest dimension. Source samples of planned importation should be provided to the geotechnical consultant for laboratory testing a minimum of 3 working days prior to any planned importation for required laboratory testing.

Aggregate base (crushed aggregate base or crushed miscellaneous base) should conform to the requirements of Section 200-2 of the Standard Specifications for Public Works Construction ("Greenbook") for untreated base materials (except processed miscellaneous base) or Caltrans Class 2 aggregate base. Crushed aggregate base, crushed miscellaneous base and Caltrans Class 2 aggregate base are acceptable for pavement sections.

4.1.6 Fill Placement and Compaction

Material to be placed as fill should be brought to near-optimum moisture content (generally at about 2 percent above optimum moisture content) and recompacted to at least 90 percent relative compaction (per ASTM D1557). Significant moisture conditioning of site soils should be anticipated in order to achieve the required degree of compaction. In general, soils will require additional moisture conditioning in order to achieve the required compaction. Drying and/or mixing of very moist soils may also be required prior to reusing the materials in compacted fills. The optimum lift thickness to produce a uniformly compacted fill will depend on the type and size of compaction equipment used. In general, fill should be placed in uniform lifts not exceeding 8 inches in compacted thickness. Each lift should be thoroughly compacted and accepted prior to subsequent lifts. Generally, placement and compaction of fill should be performed in accordance with local grading ordinances and with observation and testing by the geotechnical consultant. Oversized material as previously defined should be removed from site fills.

Fill placed on any slopes greater than 5:1 (horizontal to vertical) should be properly keyed and benched into firm and competent soils as it is placed in lifts.

Aggregate base material should be compacted to a minimum of 95 percent relative compaction at or slightly above-optimum moisture content per ASTM D1557. Subgrade below aggregate base should be compacted to a minimum of 90 percent relative compaction per ASTM D1557 at or slightly above-optimum moisture content.

If gap-graded ¾-inch rock is used for backfill (around storm drain storage chambers, retaining wall backfill, etc.) it will require compaction. Rock shall be placed in thin lifts (typically not exceeding 6 inches) and mechanically compacted with observation by geotechnical consultant. Backfill rock shall meet the requirements of ASTM D2321. Gap-graded rock is required to be wrapped in filter fabric to prevent the migration of fines into the rock backfill.

4.1.7 Trench and Retaining Wall Backfill and Compaction

Bedding material used within the pipe zone should conform to the requirements of the current Greenbook and the pipe manufacturer. Where applicable, sand having a sand equivalent (SE) of 20 or greater (per Caltrans Test Method [CTM] 217) may be used to bed and shade the pipes within the bedding zone. Sand backfill should be densified by jetting or flooding and then tamped to ensure adequate compaction. Bedding sand should be from a natural source, manufactured sand from recycled material is not suitable for jetting. The onsite soils may generally be considered suitable as trench backfill (zone defined as 12 inches above the pipe to subgrade), provided the soils are screened of rocks greater than 6 inches in maximum dimension, construction debris and organic material. Trench backfill should be compacted in uniform lifts (as outlined above in Section "Material for Fill") by mechanical means to at least 90 percent relative compaction (per ASTM D1557). If gap-graded rock is used for trench backfill, refer to above Section 4.1.6.

In backfill areas where mechanical compaction of soil backfill is impractical due to space constraints, flowable fill such as sand-cement slurry may be substituted for compacted backfill. The slurry should contain about one sack of cement per cubic yard. When set, such a mix typically has the consistency of compacted soil. Sand cement slurry placed near the surface within landscape areas should be evaluated for potential impacts on planned improvements.

Any required retaining wall backfill should consist of predominately granular, sandy soils outlined in Section 4.1.5. The limits of select sandy backfill should extend at minimum ½ the height of the retaining wall or the width of the heel (if applicable), whichever is greater (Refer to Figure 3). Retaining wall backfill soils should be compacted in relatively uniform thin lifts to a minimum of 90 percent relative compaction (per ASTM D1557). Jetting or flooding of retaining wall backfill materials should not be permitted. If gap-graded rock is used for retaining wall backfill, refer to above Section 4.1.6.

A representative from LGC Geotechnical should observe, probe, and test the backfill to verify compliance with the project recommendations.

4.2 Preliminary Foundation Recommendations

The proposed structure may be supported on spread or continuous footings and conventional slabs, provided earthwork is performed in accordance with the recommendations presented in this report. Since the site soils are anticipated to be "Very Low" expansion potential (EI of 20 or less per ASTM D4829), special design considerations from a geotechnical perspective are not anticipated, however, this must be verified based on as-graded conditions. Footings should be

supported on properly compacted fill. Please note that the following foundation recommendations are preliminary and must be confirmed by LGC Geotechnical at the completion of grading.

Preliminary foundation recommendations are provided in the following sections. The foundation design must be performed by the structural engineer based on the following geotechnical parameters and minimum values provided.

4.2.1 Slab Design and Construction

From a geotechnical perspective, minimum slab thicknesses of 6 inches and 4 inches are recommended for new slabs in the warehouse areas and office areas, respectively. Slabs are to be supported on compacted fill soils properly prepared in accordance with the recommendations provided in this report. Actual slab reinforcement and thickness should be determined by the structural engineer based on the imposed loading. Additional slab-on-grade recommendations can be provided for alternative building types upon request.

The foundation designer may use a modulus of vertical subgrade reaction (k) of 200 pounds per cubic inch (pounds per square inch per inch of deflection). This value is for a 1-foot by 1-foot square loaded area and should be adjusted by the structural designer for the area of the proposed footing using the following formula:

$k = 200 \times [(B+1)/2B]^2$
k = modulus of vertical subgrade reaction, pounds per cubic inch (pci)
B = foundation width (feet)

It is recommended that subgrade soils below slabs be moisture conditioned in order to maintain the recommended moisture content up to the time of concrete placement. The recommended moisture content of the slab subgrade soils should be between optimum moisture content and approximately 2 percent above optimum moisture content to a minimum depth of 12 inches. The moisture content of the slab subgrade should be verified by the geotechnical consultant within 1 to 2 days prior to concrete placement. In addition, this moisture content should be maintained around the immediate perimeter of the slab during construction and up to occupancy of the building structures.

The following recommendations are for informational purposes only, as they are unrelated to the geotechnical performance of the foundation. The following recommendations may be superseded by the foundation engineer and/or owner. Some post-construction moisture migration should be expected below the foundation. In general, interior floor slabs with moisture sensitive floor coverings should be underlain by a minimum 10 mil thick polyolefin material vapor retarder, which has a water vapor transmission rate (permeance) of less than 0.03 perms. The need for sand and/or the sand thickness (above and/or below the vapor retarder) should be specified by the structural engineer, architect or concrete contactor. The selection and thickness of sand is not a geotechnical engineering issue and is therefore outside our purview.

4.2.2 Foundation Design Parameters

For the proposed industrial warehouse structures, minimum continuous wall and column footing widths should be 12 inches and 24 inches, respectively, minimum exterior foundation embedment should extend a minimum of 18 inches below the adjacent exterior grade, and interior column footings should be embedded a minimum of 12 inches beneath the adjacent subgrade. The following allowable bearing pressures for both continuous and column spread footings presented in Table 3 below are recommended for corresponding footing widths and embedments.

TABLE 3

Allowable Soil Bearing Pressures

Allowable Static Bearing Pressure (psf)	Minimum Footing Width (feet)	Minimum Footing Embedment* (feet)
3,500	4	2
3,000	3	2
2,500	2	1.5
2,000	1	1.5

* Refers to minimum depth measured below lowest adjacent grade.

These allowable bearing values indicated above (exclusive of the weight of the footings) are for total dead loads and frequently applied live loads and may be increased by ⅓ for short duration loading (i.e., wind or seismic loads). The allowable bearing pressures are applicable for level (ground slope equal to or flatter than 5H:1V) conditions only.

In utilizing the above-mentioned allowable bearing capacity and provided our earthwork recommendations are implemented, foundation settlement due to structural loads is anticipated to be on the order of 1-inch. Differential static settlement may be taken as half of the static settlement (i.e., ½-inch over a horizontal span of 40 feet).

4.2.3 Foundation Construction

The foundation is to be excavated into competent compacted artificial fill placed during grading operations. It is recommended that the foundation subgrade soils be evaluated by the geotechnical engineer prior to steel and/or concrete placement.

The geotechnical parameters provided herein assume that if the areas adjacent to the foundations are planted and irrigated, these areas will be designed with proper drainage and adequately maintained so that ponding, which causes significant moisture changes below the foundation, does not occur. Our recommendations do not account for excessive irrigation and/or incorrect landscape design. Plants should only be provided with sufficient irrigation for life and not overwatered to saturate subgrade soils. Sunken

planters placed adjacent to the foundation should either be designed with an efficient drainage system or liners to prevent moisture infiltration below the foundation.

4.2.4 Lateral Load Resistance

Resistance to lateral loads can be provided by friction acting at the base of foundations and by passive earth pressure. For concrete/soil frictional resistance, an allowable coefficient of friction of 0.35 may be assumed with dead-load forces. An allowable passive lateral earth pressure of 250 psf per foot of depth (or pcf) to a maximum of 2,500 psf may be used for the sides of footings poured against properly compacted fill. Allowable passive pressure may be increased to 340 pcf (maximum of 3,400 psf) for short duration seismic loading. This passive pressure is applicable for level (ground slope equal to or flatter than 5H:1V) conditions. Frictional resistance and passive pressure may be used in combination without reduction. We recommend that the upper foot of passive resistance be neglected if finished grade will not be covered with concrete or asphalt. The provided allowable passive pressures are based on a factor of safety of 1.5 and 1.1 for static and seismic loading conditions, respectively.

4.3 Lateral Earth Pressures for Retaining Wall Design

Lateral earth pressures are provided as equivalent fluid unit weights, in pound per square foot (psf) per foot of depth or pcf. A soil unit weight of 125 pcf may be assumed for calculating the actual weight of soil over the wall footing.

The following lateral earth pressures are presented on Table 4 below for design of site retaining walls backfilled with approved select sandy soils with a maximum of 35 percent fines (passing the No. 200 sieve per ASTM D1140) and a Very Low expansion potential (EI of 20 or less per ASTM D4829). The site may contain soils that are not suitable for retaining wall backfill due to oversize material and fines content, therefore select grading, stockpiling, and screening and/or import may be required by the contractor for obtaining suitable retaining wall backfill soil.

TABLE 4

Lateral Earth Pressures – Approved Sandy Backfill

Conditions	**Equivalent Fluid Unit Weight (pcf)**	**Equivalent Fluid Unit Weight (pcf)**
	Level Backfill	**2:1 Sloped Backfill**
	Approved Sandy Soils	**Approved Sandy Soils**
Active	35	55
At-Rest	55	70

If the wall can yield enough to mobilize the full shear strength of the soil, it can be designed for

"active" pressure. If the wall cannot yield under the applied load, the earth pressure will be higher. The equivalent fluid pressure values assume free-draining conditions. Retaining wall structures should be provided with appropriate drainage and appropriately waterproofed (Refer to Figure 3). Please note that waterproofing and outlet systems are not the purview of the geotechnical consultant. If conditions other than those assumed above are anticipated, the equivalent fluid pressure values should be provided on an individual-case basis by the geotechnical consultant.

Surcharge loading effects from any adjacent structures should be evaluated by the retaining wall designer. In general, structural loads within a 1:1 (horizontal to vertical) upward projection from the bottom of the proposed retaining wall footing will surcharge the proposed retaining structure. In addition to the recommended earth pressure, retaining walls adjacent to streets should be designed to resist vehicular traffic if applicable. Uniform surcharges may be estimated using the applicable coefficient of lateral earth pressure using a rectangular distribution. A factor of 0.35 and 0.5 may be used for the active and at-rest conditions, respectively. The vertical traffic surcharge may be determined by the structural designer. The retaining wall designer should contact the geotechnical engineer for any required geotechnical input in estimating any applicable surcharge loads.

If required, the retaining wall designer may use a seismic lateral earth pressure increment of 15 pcf for a level backfill condition. This increment should be applied in addition to the provided static lateral earth pressure using a "normal" triangular distribution with the resultant acting at H/3 in relation to the base of the retaining structure (where H is the retained height). For the restrained, at-rest condition, the seismic increment may be added to the applicable active lateral earth pressure (in lieu of the at-rest lateral earth pressure) when analyzing short duration seismic loading. Per Section 1803.5.12 of the 2019 CBC, the seismic lateral earth pressure is applicable to structures assigned to Seismic Design Category D through F for retaining wall structures supporting more than 6 feet of backfill height. This seismic lateral earth pressure is estimated using the procedure outlined by the Structural Engineers Association of California (Lew, et al, 2010).

Soil bearing and lateral resistance (friction coefficient and passive resistance) are provided in Section 4.2. Earthwork considerations (temporary backcuts, backfill, compaction, etc.) for retaining walls are provided in Section 4.1 (Site Earthwork) and the subsequent earthwork related sub-sections.

4.4 Soil Corrosivity

Although not corrosion engineers (LGC Geotechnical is not a corrosion consultant), several governing agencies in Southern California require the geotechnical consultant to determine the corrosion potential of soils to buried concrete and metal facilities. We therefore present the results of our testing with regard to corrosion for the use of the client and other consultants, as they determine necessary.

Corrosion testing indicated soluble sulfate contents less than approximately 0.01 percent, a chloride content of 220 parts per million (ppm), pH of 6.82, and a minimum resistivity of 3,398 ohm-centimeters. Based on Caltrans Corrosion Guidelines (2021), soils are considered corrosive if the pH is 5.5 or less, or the chloride concentration is 500 ppm or greater, or the

sulfate concentration is 1,500 ppm (0.15 percent) or greater. Based on the test results, soils are not considered corrosive using Caltrans criteria.

Based on laboratory sulfate test results, the near surface soils are designated to a class "S0" per ACI 318, Table 19.3.1.1 with respect to sulfates. Concrete in direct contact with the onsite soils can be designed according to ACI 318, Table 19.3.2.1 using the "S0" sulfate classification.

Laboratory testing may need to be performed at the completion of grading by the project corrosion engineer to further evaluate the as-graded soil corrosivity characteristics. Accordingly, revision of the corrosion potential may be needed, should future test results differ substantially from the conditions reported herein. The client and/or other members of the development team should consider this during the design and planning phase of the project and formulate an appropriate course of action.

4.5 Preliminary Asphalt Concrete Pavement Sections

The following preliminary minimum asphalt concrete (AC) pavement sections are provided in Table 5 based on an assumed R-value of 40. These recommendations must be confirmed with R-value testing of representative near-surface soils at the completion of grading and after underground utilities have been installed and backfilled. Determination of the Traffic Index (TI) is not the purview of the geotechnical consultant. Final pavement sections should be confirmed by the project civil/transportation engineer based upon the final design Traffic Index. If requested, LGC Geotechnical will provide sections for alternate TI values.

TABLE 5

Preliminary Asphalt Concrete Pavement Section Options

Pavement Area	Assumed Traffic Index	Section Thickness (inches)	
		Asphalt Concrete	Aggregate Base
Auto Parking	5.0	4.0	4.0
Circulation Drives (little to no truck traffic)	6.0	4.0	5.0
Truck Driveways (limited truck traffic)	7.0	4.0	7.0

The thicknesses shown are for minimum thicknesses. Increasing the thickness of any or all of the above layers will reduce the likelihood of the pavement experiencing distress during its service life. The above recommendations are based on the assumption that proper maintenance and irrigation of the areas adjacent to the roadway will occur through the design life of the pavement. Failure to maintain a proper maintenance and/or irrigation program may jeopardize the integrity of the pavement.

Earthwork recommendations regarding aggregate base and subgrade are provided in the previous section "Site Earthwork" and the related sub-sections of this report.

4.6 Preliminary Portland Cement Concrete Pavement Sections

For the purposes of these preliminary recommendations, we assumed an R-value of 40. Preliminary minimum Portland Cement Concrete (PCC) pavement street sections are provided in Table 6 for Traffic Indices of 5.0 (or less), 6.0, and 7.0 and may be utilized in the design of the truck parking/circulation areas or loading docks. These recommendations must be confirmed with R-value testing of representative near-surface soils at the completion of grading and after underground utilities have been installed and backfilled. Final street sections should be confirmed by the project civil engineer based upon the projected design Traffic Index. If requested, LGC Geotechnical will provide sections for alternate TI values. The appropriate paving section must be selected by the project civil engineer/client based on design traffic indexes.

TABLE 6

Preliminary PCC Pavement Sections

Provided Traffic Index	5.0 (or less)	6.0	7.0
Assumed Pavement Area	Auto Parking	Circulation Drives (little to no truck traffic)	Truck Driveways (limited truck traffic)
R -Value Subgrade	40	40	40
PCC Thickness	5.0 inches	6.0 inches	7.0 inches
95% Compacted Subgrade	12.0 inches	12.0 inches	12.0 inches

For preliminary planning purposes, the PCC pavement sections may consist of a minimum of concrete over subgrade soils compacted to 95 percent relative compaction (see Table 6 for section thicknesses). The concrete should have a minimum compressive strength of 3,250 psi and a minimum flexural strength of 505 psi at the time the pavement is subjected to traffic. Steel reinforcement is not required (ACI, 2017). The provided pavement sections assume that edge restraints like a curb and gutter will be provided. To reduce the potential (but not eliminate) for cracking, paving should provide control joints at regular intervals in each direction. The maximum joint spacing within all PCC pavements is recommended to be equal to or less than 30 times the pavement thickness; however, we recommend joint spacing not exceed 15 feet in each direction. Joints should be a depth of 1/3 of the concrete thickness. Decreasing the spacing of these joints will further reduce, but not eliminate the potential for unsightly cracking.

If semi-trailers are to be disconnected from the tractors from dolly jacks the design should consider concentrated loads imposed on the concrete pavement. These loads typically exceed the axle loads of the semi-trailer combination and are applied to smaller contact areas, especially if applied near joint locations. If these irregular loadings are confined to specific areas of the site, the pavement section required thickness can be economized. These and other factors (e.g., traffic patterns, irregular loading, doweled vs un-doweled joints, etc.) outlined in ACI, 2017 should be addressed for the final design.

The thicknesses shown are minimum thicknesses. Increasing the thickness of any or all of the above layers will reduce the likelihood of the pavement experiencing distress during its service life. The above recommendations are based on the assumption that proper maintenance and irrigation of the areas adjacent to the roadway will occur through the design life of the

pavement. Failure to maintain a proper maintenance and/or irrigation program may jeopardize the integrity of the pavement.

Subgrade below the PCC pavement should be compacted to a minimum of 95 percent relative compaction per ASTM D1557 near optimum moisture content (generally within optimum and 2 percent above optimum moisture content). Earthwork recommendations are provided in Section 4.1 "Site Earthwork" and the related sub-sections of this report.

4.7 Nonstructural Concrete Flatwork

Nonstructural concrete (such as flatwork, sidewalks, etc.) has a potential for cracking due to changes in soil volume related to soil-moisture fluctuations. To reduce the potential for excessive cracking and lifting, concrete should be designed in accordance with the minimum guidelines outlined below. These guidelines will reduce the potential for irregular cracking and promote cracking along construction joints but will not eliminate all cracking or lifting. Thickening the concrete and/or adding additional reinforcement will further reduce cosmetic distress.

Nonstructural and non-vehicular concrete flatwork placed on compacted subgrade may be a minimum 4-inches in thickness with crack control joints spaced 8 feet apart for flatwork slabs and 6 feet apart for flatwork sidewalks. Crack control joints should be sawcut or deep open tool joint to a minimum of 1/3 the concrete thickness. The compacted subgrade below the nonstructural and non-vehicular concrete flatwork should be wet down prior to placing concrete.

To reduce the potential for nonstructural concrete flatwork to separate from entryways and doorways, the owner may elect to install dowels to tie these two elements together.

4.8 Control of Surface Water and Drainage Control

From a geotechnical perspective, we recommend that compacted finished grade soils adjacent to proposed structures be sloped away from the proposed structures and towards an approved drainage device or unobstructed swale. If required, drainage swales, wherever feasible, should not be constructed within 5 feet of buildings. Where lot and building geometry necessitates that drainage swales be routed closer than 5 feet to structural foundations, we recommend the use of area drains together with drainage swales. Drainage swales used in conjunction with area drains should be designed by the project civil engineer so that a properly constructed and maintained system will prevent ponding within 5 feet of the foundation. Code compliance of grades is not the purview of the geotechnical consultant.

Planters with open bottoms adjacent to buildings should be avoided. Planters should not be designed adjacent to buildings unless provisions for drainage, such as catch basins, liners, and/or area drains, are made. Overwatering must be avoided.

4.9 Subsurface Water Infiltration

Recent regulatory changes have occurred that mandate that storm water be infiltrated below grade rather than collected in a conventional storm drain system. It should be noted that collecting and concentrating surface water for the purpose of intentionally infiltrating it below grade, conflicts with the geotechnical engineering objective of directing surface water away from slopes, structures and other improvements. The geotechnical stability and integrity of a site is reliant upon appropriately handling surface water. In general, we do not recommend that surface water be intentionally infiltrated into the subsurface soils.

If it is determined that water must be infiltrated due to regulatory requirements, we recommend the absolute minimum amount of water be infiltrated and that the infiltration areas not be located near slopes or near settlement sensitive existing/proposed improvements. Contamination and environmental suitability of the site for infiltration is not the purview of the geotechnical consultant and should be evaluated by others. LGC Geotechnical only addressed the geotechnical issues associated with stormwater infiltration.

As with all systems that are designed to concentrate surface flow and direct the water into the subsurface soils, some minor settlement, nuisance type localized saturation and/or other water related issues should be expected. Due to variability in geologic and hydraulic conductivity characteristics, these effects may be experienced at the onsite location and/or potentially at other locations well beyond the physical limits of the subject site. Infiltrated water may enter underground utility pipe zones or flow along heterogeneous soil layers or geologic structure and migrate laterally impacting other improvements which may be located far away or at an elevation much different than the infiltration source.

Based on the results of our field infiltration testing the measured 1-D infiltration rates for I-1, I-2, and I-3 (not including required factors of safety for design) were 8.2, 8.5, and 13.3 inches per hour, respectively. The design infiltration rate shall be determined by dividing the measured infiltration by a series of safety factors for site suitability and design considerations that are the purview of both the geotechnical consultant and designer of the infiltration system (County of San Bernardino, 2013). The recommended geotechnical factors of safety that are to be used to determine the design infiltration rate are provided in Table 7 on the following page.

TABLE 7

Geotechnical Factors of Safety for Design Infiltration Rate

A: Site Suitability Considerations (From Table VII.3)	
Consideration	**Factor of Safety (F.S.)**
Soil Assessment Methods	2
Texture Class	1
Site Soil Variability	2
Depth to Groundwater/Impervious Layer	1
Calculated Suitability Assessment Factor of Safety	**1.5**
B: Design Related Considerations (From Table VII.4)	
Consideration	**Factor of Safety (F.S.)**
Tributary Size Area	Per Infiltration Designer
Level of Pretreatment	Per Infiltration Designer
Redundancy of Treatment	Per Infiltration Designer
Compaction during Construction	2
Calculated Design Factor of Safety	Per Infiltration Designer
Combined F.S.= Suitability F.S x Design F.S.	**TBD**

The factor of safety used to determine the design infiltration rate is determined by multiplying the calculated suitability assessment factor of safety of 1.50 by the design factor of safety which is to be determined by the infiltration system designer. The design infiltration rate is thereby equal to the Measured Infiltration Rate provided in Table 1 (inches per hour) divided by the product of 1.50 times the calculated design factor of safety. The combined factor of safety must be a minimum of 2.0 but need not exceed 9.0.

Please note that the infiltration values reported herein are for native materials only and are not for compacted fill. Water discharge from any infiltration systems should not occur within the zone of influence of foundation footings (column and load bearing wall locations). For preliminary purposes we recommend a minimum setback of 15 feet from the structural improvements. Infiltration shall not be permitted directly on or into compacted fill soils. The infiltration values provided are based on clean water and this requires the removal of trash, debris, soil particles, etc., and on-going maintenance. Over time, siltation, plugging and clogging of the system may reduce the infiltration rate and subsequently reduce the effectiveness of the infiltration system. Any designed infiltration system will require routine periodic maintenance. It should be noted that methods to prevent this shall be the sole responsibility of the infiltration designer and are not the purview of the geotechnical consultant. If adequate measures cannot be incorporated into the design and maintenance of the system, then the infiltration rates may need to be further reduced. These and other factors should be considered in selecting a design infiltration rate.

We recommend the design of any infiltration system include at least one redundancy or overflow system. It may be prudent to provide an overflow system connected directly to a

storm drain system in order to prevent failure of the infiltration system, either as a result of lower than anticipated infiltration with time and/or very high flow volumes. Contamination and environmental suitability of the site for infiltration was not evaluated by us and should be evaluated by others (environmental consultant). We only addressed the geotechnical issues associated with stormwater infiltration.

LGC Geotechnical should be provided with details for any planned required infiltration system early in the design process for geotechnical input.

4.10 Pre-Construction Documentation and Construction Monitoring

It is highly recommended that a program of documentation and monitoring be devised and put into practice before the onset of any groundwork. LGC Geotechnical can perform these services at your request. This should include, but not necessarily be limited to, detailed documentation of the existing improvements, buildings, and utilities around the area of proposed excavation, with particular attention to any distress that is already present prior to the start of work. Subsequent readings should be scheduled consistent with the program of work.

4.11 Geotechnical Plan Review

Project plans (e.g., grading, foundation, retaining wall, etc.) and final project drawings should be reviewed by this office prior to construction to verify that our geotechnical recommendations, provided herein, have been appropriately incorporated. Additional or modified geotechnical recommendations may be required based on the proposed design.

4.12 Geotechnical Observation and Testing During Construction

The recommendations provided in this report are based on limited subsurface observations and geotechnical analysis. The interpolated subsurface conditions should be checked in the field during construction by a representative of LGC Geotechnical. Geotechnical observation and testing is required per Section 1705 of the 2019 California Building Code (CBC).

Geotechnical observation and/or testing should be performed by LGC Geotechnical at the following stages:

- During grading (removal bottoms, fill placement, etc.);
- During retaining wall and utility trench backfill and compaction;
- Preparation of pavement subgrade and placement of aggregate base;
- After building and wall footing excavation and prior to placing reinforcement and/or concrete; and
- When any unusual soil conditions are encountered during any construction operation subsequent to issuance of this report.

5.0 LIMITATIONS

Our services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable engineers and geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report. The samples taken and submitted for laboratory testing, the observations made, and the in-situ field testing performed are believed representative of the entire project; however, soil and geologic conditions revealed by excavation may be different than our preliminary findings. If this occurs, the changed conditions must be evaluated by the project soils engineer and geologist and design(s) adjusted as required or alternate design(s) recommended.

This report is issued with the understanding that it is the responsibility of the owner, or of his/her representative, to ensure that the information and recommendations contained herein are brought to the attention of the architect and/or project engineer and incorporated into the plans, and the necessary steps are taken to see that the contractor and/or subcontractor properly implements the recommendations in the field. The contractor and/or subcontractor should notify the owner if they consider any of the recommendations presented herein to be unsafe.

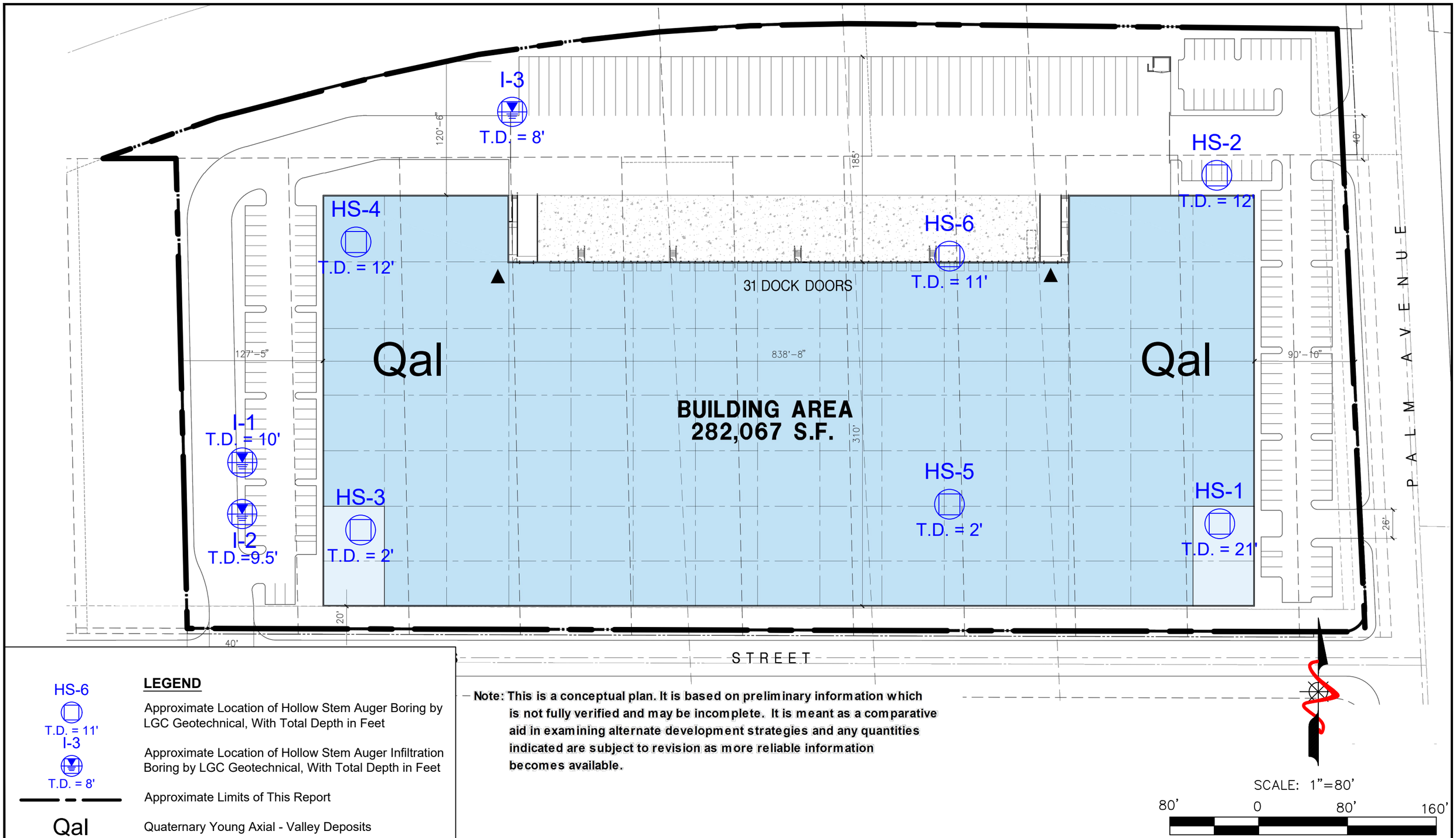
The findings of this report are valid as of the present date. However, changes in the conditions of a property can and do occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. Therefore, the findings, conclusions, and recommendations presented in this report can be relied upon only if LGC Geotechnical has the opportunity to observe the subsurface conditions during grading and construction of the project, in order to confirm that our preliminary findings are representative for the site.

In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and modification, and should not be relied upon after a period of 3 years.

PROJECT NAME	Lovett Industrial - Palm Ave, Highland
PROJECT NO.	22081-01
ENG. / GEOL.	KBC/RLD
SCALE	Not to Scale
DATE	July 2022

LGC Geotechnical, Inc.

FIGURE 1
Site Location Map



LEGEND

HS-6
T.D. = 11'
Approximate Location of Hollow Stem Auger Boring by LGC Geotechnical, With Total Depth in Feet

I-3
T.D. = 8'
Approximate Location of Hollow Stem Auger Infiltration Boring by LGC Geotechnical, With Total Depth in Feet

Approximate Limits of This Report

Qal
Quaternary Young Axial - Valley Deposits

Note: This is a conceptual plan. It is based on preliminary information which is not fully verified and may be incomplete. It is meant as a comparative aid in examining alternate development strategies and any quantities indicated are subject to revision as more reliable information becomes available.

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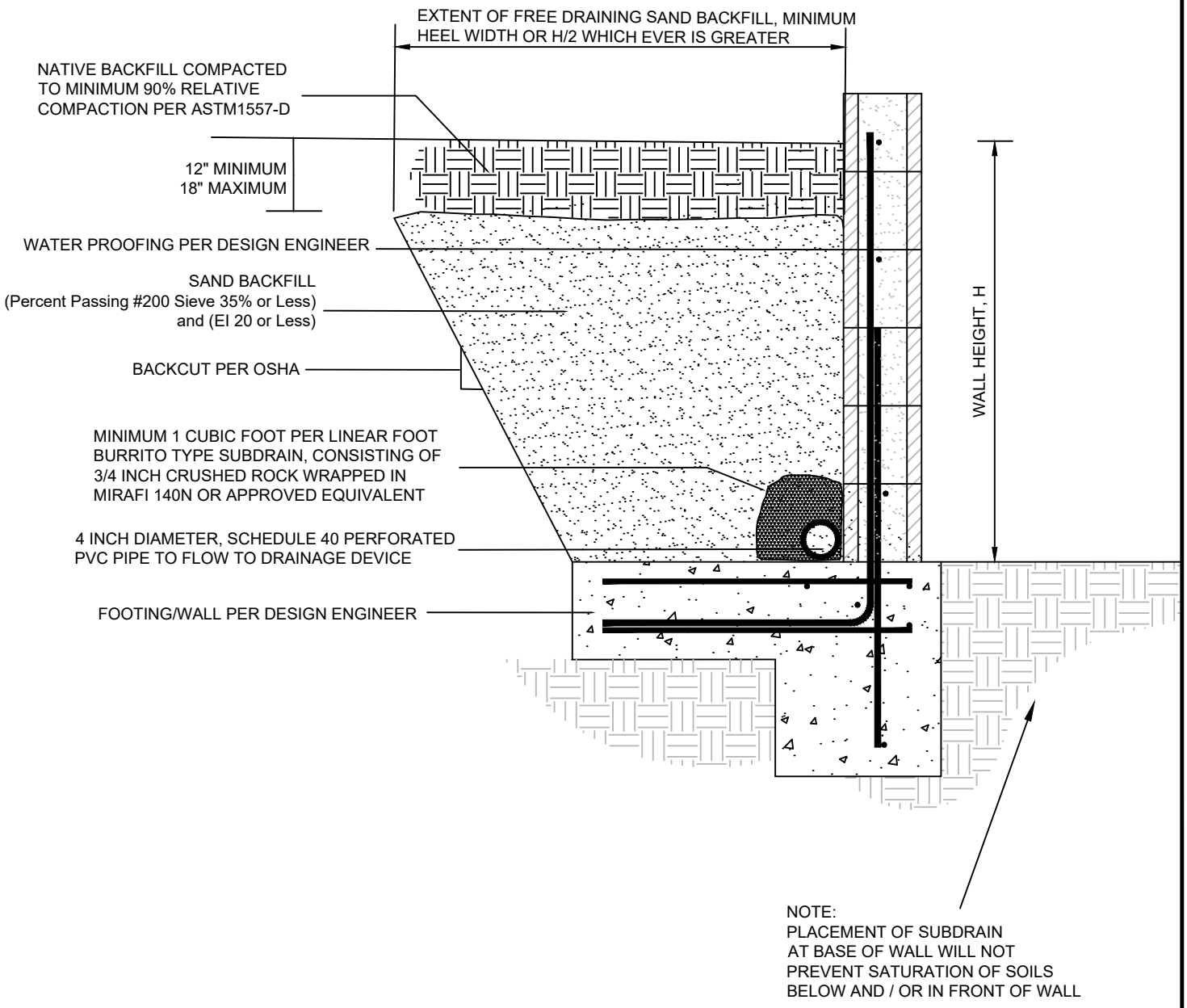
FIGURE 2
Geotechnical Map

PROJECT NAME	Lovett Industrial - Palm Ave, Highland
PROJECT NO.	22081-01
ENG. / GEOL.	KBC/RLD
SCALE	1" = 80'
DATE	July 2022



LGC Geotechnical, Inc.

FIGURE 3
Retaining Wall Backfill Detail

PROJECT NAME	Lovett Industrial - Palm Ave, Highland
PROJECT NO.	22081-01
ENG. / GEOL.	KBC/RLD
SCALE	Not to Scale
DATE	July 2022

Appendix A
References

APPENDIX A

References

American Concrete Institute (ACI), 2013, Guide for the Design and Construction of Concrete Parking Lots (ACI 330R-08), fifteenth printing, November 2013.

_____, 2014, Building Code Requirements for Structural Concrete (ACI 318-14) and Commentary (ACI 318R-14).

_____, 2017, Guide for the Design and Construction of Concrete Site Paving for Industrial and Trucking Facilities (ACI 3302R-17), May 2017.

American Society of Civil Engineers (ASCE), 2017, Minimum Design Loads for Buildings and Other Structures, ASCE/SEI 7-16, 2017.

_____, 2018, Standard 7-16, Minimum Design Loads for Buildings and Associated Criteria for Buildings and Other Structures, Supplement 1, effective: December 12, 2018.

California Building Standards Commission, 2019, California Building Code, California Code of Regulations Title 24, Volumes 1 and 2, dated July 2019.

California Department of Transportation (Caltrans), 2021, Corrosion Guidelines, Version 3.2, dated May 2021.

California Geological Survey (CGS), (Previously California Division of Mines and Geology [CDMG]), 2008, California Geological Society Special Publication 117A: Guidelines for Evaluating and Mitigating Seismic Hazards in California.

_____, 2018, Earthquake Fault Zones, Special Publication 42, Revised 2018.

County of San Bernardino, 2009, San Bernardino County Land Use Plan General Plan Geologic Hazard Overlays, FH31 C Redlands, Zone of Suspected Liquefaction Susceptibility Layer Compiled by the San Bernardino County Geologist, 2009: http://www.sbcounty.gov/Uploads/lus/GeoHazMaps/FH31C_20100309.pdf

_____, 2013, Technical Guidance Document for Water Quality Management Plans, dated June 7, 2013.

Lew, et al, 2010, Seismic Earth Pressures on Deep Basements, Structural Engineers Association of California (SEAOC) Convention Proceedings.

United States Geological Survey (USGS), 1991, Liquefaction Susceptibility in the San Bernardino Valley and Vicinity, Southern California – A Regional Evaluation, by Jonathan C. Matti & Scott E. Carson, Bulletin 1898, dated 1991.

_____, 2003, Geologic Map of the Redlands 7.5' Quadrangle, San Bernardino and Riverside Counties, California, Version 1.0, by Jonathan C. Matti, Douglas M. Morton, Brett F. Cox, and Katherine J. Kendrick, Open-File Report 03-302, dated 2003.

Southern California Geotechnical (SCG), 2020, Geotechnical Investigation, Proposed San Manuel Industrial Park, SEC 3rd Street at Victoria Avenue, San Bernardino, California, Project No. 20G164-1, dated July 30, 2020.

Structural Engineers Association of California (SEAOC), 2022, Seismic Design Maps, Retrieved June 29, 2022, from https://seismicmaps.org/

United States Geological Survey (USGS), 2014, Unified Hazard Tool, Dynamic: Conterminous U.S. 2014 (update) (v4.2.0), Retrieved June 29, 2022, from: https://earthquake.usgs.gov/hazards/interactive/

Appendix B
Boring Logs

Geotechnical Boring Log Borehole HS-1

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1188' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	0						@0' - 3" Aggregate Base **@3" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>**	
1185		R-1	9 6 6	108.6	1.5	SP	@2.5' - SAND: light reddish brown, dry, loose, minor amounts of gravel	CO
	5	SPT-1	3 6 6		1.7		@5' - SAND: pale reddish brown, dry, medium dense, minor amount of gravel	
1180		R-2	7 11 20	116.8	1.0		@7.5' - SAND: light reddish brown, dry, medium dense, minor amounts of gravel and cobbles	CO
	10	SPT-2	16 25 17		1.5	GP	@10' - GRAVEL with Sand: pale brown, dry, very dense, some cobbles	
1175								
	15	R-3	10 50/6"	109.3	1.9	SP	@15' - SAND: light reddish brown, dry, very dense, minor amounts of gravel and cobbles	
1170								
	20	SPT-3	50/3"		0.9	GP	@20' - GRAVEL with Sand: brown, dry, very dense, minor amounts of cobble @21' - Practical Refusal	
1165								
	25						Total Depth = 21' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022 Caving: 10' after removing augers	
1160								
	30							

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-2

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1189' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
1185	0	B-1						@0' - 3" Aggregate Base **@3" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>**	CR
			R-1	7 7 10	96.8	2.4	SP	@2.5' - SAND: light brown, dry, medium dense, minor amounts of gravel	
	5		SPT-1	6 50/4"		2.5		@5' - SAND with Gravel: light brown, dry, very dense	
			R-2	19 50/3"				@7.5' - SAND with Gravel: light brown, dry, very dense, minor gravel and cobbles	
1180	10		SPT-2	25 50/4"		1.9		@10' - SAND with Gravel: light yellowish brown, dry, very dense, minor amounts of cobble	
								@12' - Practical Refusal	
1175	15							Total Depth = 12' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022 Caving = 5' after removing augers	
1170	20								
1165	25								
1160	30								

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-3

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1179' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	Logged By RNP Sampled By RNP Checked By KBC DESCRIPTION	Type of Test
	0							@0' - 4" Aggregate Base **@4" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>** @2' - Practical Refusal	
1175	5							Total Depth = 2' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022	
1170	10								
1165	15								
1160	20								
1155	25								
1150	30								

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THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
⏚	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-4

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1180' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	0	B-1					@0' - 4" Aggregate Base	EI
							@4" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>	
		R-1	6 10 17	106.6	1.0	SP	@2.5' - SAND: light yellowish brown, dry, medium dense, minor amounts of gravel	
1175	5	SPT-1	7 10 12		0.8		@5' - SAND with Gravel: light reddish brown, dry, medium dense	
		R-2	50/1"				@7.5' - SAND with Gravel: light reddish brown, dry, very dense, minor amounts of cobble	
1170	10	SPT-2	50/3"		0.8	GP	@10' - GRAVEL with Sand: pale brown, dry, very dense, minor amounts of cobble	
							@12' - Practical Refusal	
1165	15						Total Depth = 12' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022 Caving: 5' after removing augers	
1160	20							
1155	25							
1150	30							

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THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-5

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1185' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	0							@0' - 2" Asphalt over 3" Aggregate Base **@5" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>** @2' - Practical Refusal	
1180	5							Total Depth = 2' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022	
1175	10								
1170	15								
1165	20								
1160	25								
1155	30								

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
⏚	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-6

Date: 5/18/2022 | **Drilling Company:** Cal Pac Drilling

Project Name: Lovett Industrial - Palm Ave | **Type of Rig:** Truck Mounted

Project Number: 22081-01 | **Drop:** 30" | **Hole Diameter:** 8"

Elevation of Top of Hole: ~1186' MSL | **Drive Weight:** 140 pounds

Hole Location: See Geotechnical Map

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
1185	0	B-1						@0' - 3" Aggregate Base **@3" to T.D. - Quaternary Young Axial-Valley Deposits (Qal)**	
			R-1	11 13 18			SP	@2.5' - SAND: brown, dry, medium dense, asphalt base pieces, minor amounts of gravel and cobble	
1180	5		SPT-1	17 50/3"		2.1	GP	@5' - GRAVEL with Sand: brown, dry, very dense, minor amounts of gravel and cobble	
			R-2	50/5"			SP	@7.5' - SAND with Gravel: brown, dry, very dense, minor cobbles	
1175	10		SPT-2	9 21 27		2.7		@10' - SAND with Gravel: brown, dry, very dense, minor cobbles @12' - Practical Refusal	
1170	15							Total Depth = 12' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022 Caving = 5.5' after removing augers	
1165	20								
1160	25								
	30								

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Appendix C
Laboratory Test Results

APPENDIX C

Laboratory Testing Procedures and Test Results

The laboratory testing program was formulated towards providing data relating to the relevant engineering properties of the soils with respect to residential construction. Samples considered representative of site conditions were tested in general accordance with American Society for Testing and Materials (ASTM) procedure and/or California Test Methods (CTM), where applicable. The following summary is a brief outline of the test type and a table summarizing the test results.

Moisture and Density Determination Tests: Moisture content (ASTM D2216) and dry density determinations (ASTM D2937) were performed on relatively undisturbed samples obtained from the test borings and/or trenches. The results of these tests are presented in the boring logs. Where applicable, only moisture content was determined from undisturbed or disturbed samples.

Expansion Index: The expansion potential of selected samples was evaluated by the Expansion Index Test, Standard ASTM D4829. Specimens are molded under a given compactive energy to approximately the optimum moisture content and approximately 50 percent saturation or approximately 90 percent relative compaction. The prepared 1-inch-thick by 4-inch-diameter specimens are loaded to an equivalent 144 psf surcharge and are inundated with tap water until volumetric equilibrium is reached. The results of these tests are presented in the table below.

Sample Location	Expansion Index	Expansion Potential*
HS-4 @ 1-5 feet	1	Very Low

* ASTM D4829

Collapse/Swell Potential: Two collapse tests were performed per ASTM D4546. Samples (2.4 inches in diameter and 1-inch in height) were placed in a consolidometer and loaded to their approximate in-situ effective stress. The results are in this appendix.

Chloride Content: Chloride content was tested in accordance with Caltrans Test Method (CTM) 422. The results are presented below.

Sample Location	Chloride Content, ppm
LGC-HS-1 @ 1-5 feet	220

Laboratory Testing Procedures and Test Results

Soluble Sulfates: The soluble sulfate contents of selected samples were determined by standard geochemical methods (CTM 417). The soluble sulfate content is used to determine the appropriate cement type and maximum water-cement ratios. The test results are presented in the table below.

Sample Location	Sulfate Content (ppm)	Sulfate Exposure Class *
LGC-HS-1 @ 1-5 feet	58	S0

*Based on ACI 318R-14, Table 19.3.1.1

Minimum Resistivity and pH Tests: Minimum resistivity and pH tests were performed in general accordance with CTM 643 and standard geochemical methods. The results are presented in the table below.

Sample Location	pH	Minimum Resistivity (ohms-cm)
LGC-HS-1 @ 1-5 feet	6.82	3,398

ONE-DIMENSIONAL SWELL OR SETTLEMENT POTENTIAL OF COHESIVE SOILS

ASTM D 4546

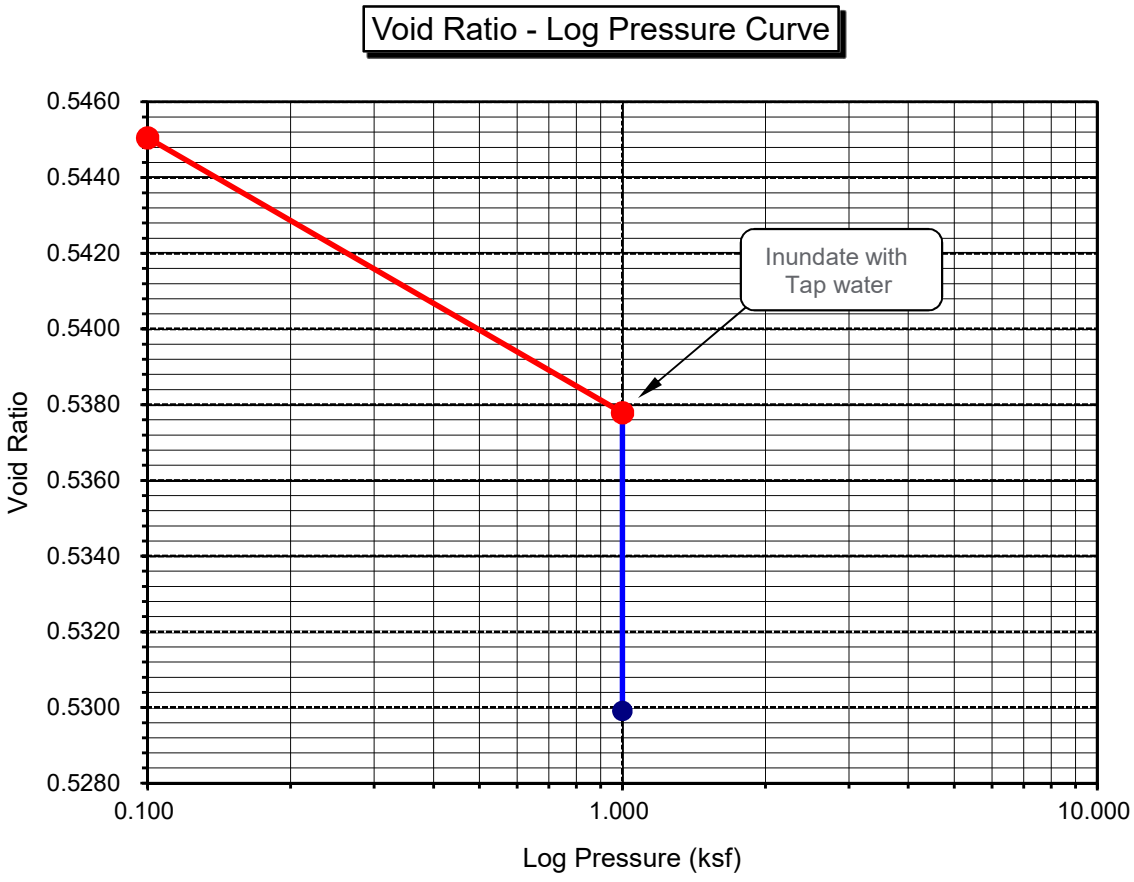
Project Name:	Lovett Industrial - Palm, Highland	Tested By:	G. Bathala	Date:	06/07/22
Project No.:	22081-01	Checked By:	J. Ward	Date:	06/21/22
Boring No.:	HS-1	Sample Type:	Ring		
Sample No.:	R-1	Depth (ft.)	2.5		
Sample Description:	Light olive brown poorly-graded sand with silt (SP-SM)				

Initial Dry Density (pcf):	109.1
Initial Moisture (%):	1.55
Initial Length (in.):	1.0000
Initial Dial Reading:	0.0943
Diameter(in):	2.415

Final Dry Density (pcf):	110.7
Final Moisture (%) :	14.3
Initial Void ratio:	0.5454
Specific Gravity(assumed):	2.70
Initial Saturation (%)	7.7

Pressure (p) (ksf)	Final Reading (in)	Apparent Thickness (in)	Load Compliance (%)	Swell (+) Settlement (-) % of Sample Thickness	Void Ratio	Corrected Deformation (%)
0.100	0.0945	0.9998	0.00	-0.02	0.5451	-0.02
1.000	0.1015	0.9928	0.23	-0.72	0.5378	-0.49
H2O	0.1066	0.9877	0.23	-1.23	0.5299	-1.00

Percent Swell (+) / Settlement (-) After Inundation = -0.51



ONE-DIMENSIONAL SWELL OR SETTLEMENT POTENTIAL OF COHESIVE SOILS

ASTM D 4546

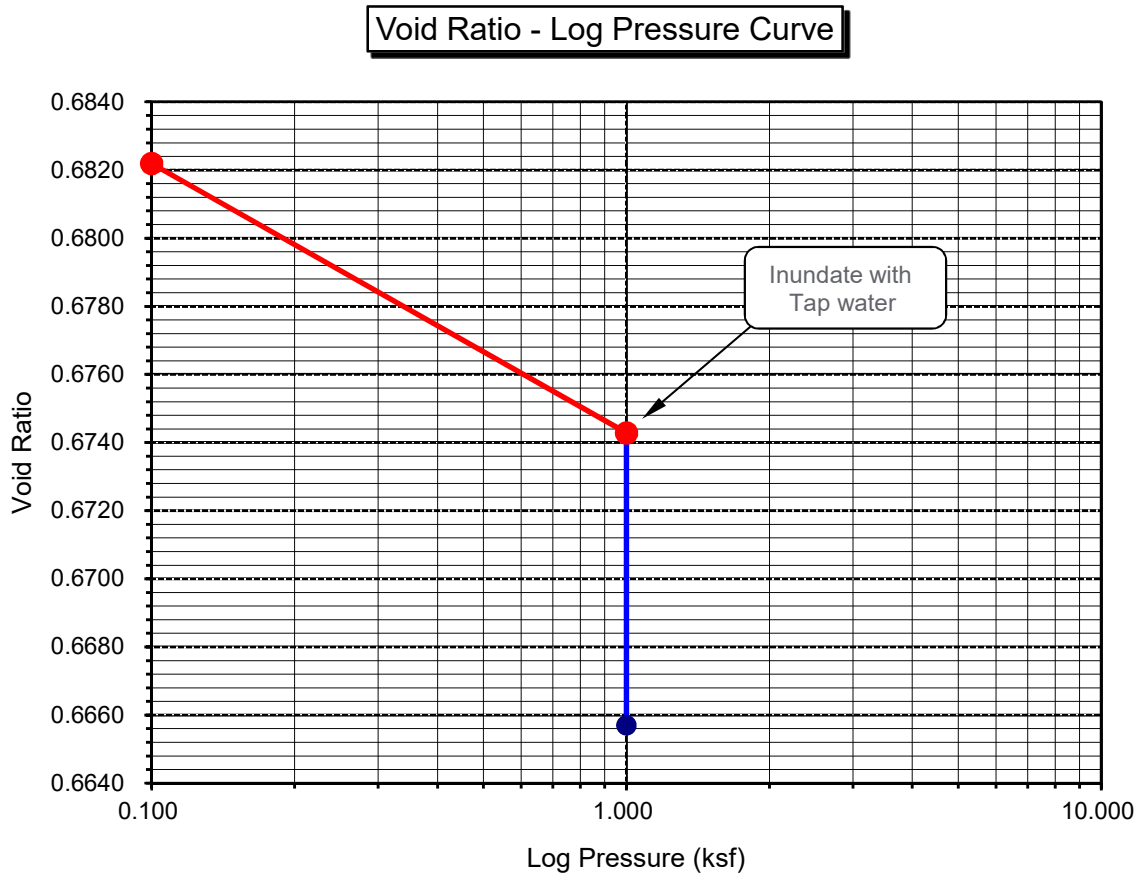
Project Name:	Lovett Industrial - Palm, Highland	Tested By:	G. Bathala	Date:	06/07/22
Project No.:	22081-01	Checked By:	J. Ward	Date:	06/27/22
Boring No.:	HS-1	Sample Type:	Ring		
Sample No.:	R-2	Depth (ft.)	7.5		
Sample Description:	Light yellowish brown poorly-graded sand (SP)				

Initial Dry Density (pcf):	100.2
Initial Moisture (%):	1.13
Initial Length (in.):	1.0000
Initial Dial Reading:	0.1452
Diameter(in):	2.415

Final Dry Density (pcf):	101.6
Final Moisture (%) :	16.5
Initial Void ratio:	0.6825
Specific Gravity(assumed):	2.70
Initial Saturation (%)	4.5

Pressure (p) (ksf)	Final Reading (in)	Apparent Thickness (in)	Load Compliance (%)	Swell (+) Settlement (-) % of Sample Thickness	Void Ratio	Corrected Deformation (%)
0.100	0.1454	0.9998	0.00	-0.02	0.6822	-0.02
1.000	0.1523	0.9929	0.22	-0.71	0.6743	-0.49
H2O	0.1574	0.9878	0.22	-1.22	0.6657	-1.00

Percent Swell (+) / Settlement (-) After Inundation = -0.51



Appendix D
Infiltration Data

Infiltration Test Data Sheet

LGC Geotechnical, Inc
131 Calle Iglesia Suite 200, San Clemente, CA 92672 tel. (949) 369-6141

Project Name: Lovett Industrial - Palm
Project Number: 22081-01
Date: 5/19/2022
Boring Number: I-1

Test hole dimensions (if circular)	
Boring Depth (feet)*:	10
Boring Diameter (inches):	8
Pipe Diameter (inches):	3

*measured at time of test

Test pit dimensions (if rectangular)	
Pit Depth (feet):	
Pit Length (feet):	
Pit Breadth (feet):	

*Pre-Test (Sandy Soil Criteria)**

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval (min)	Initial Depth to Water (feet)	Final Depth to Water (feet)	Total Change in Water Level (feet)	Greater Than or Equal to 0.5 feet (yes/no)
1	7:36	8:01	25.0	7.28	9.61	2.33	Yes
2	8:03	8:28	25.0	7.33	9.53	2.20	Yes

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak (fill) overnight, and then obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25 inches

Main Test Data

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval, Δt (min)	Initial Depth to Water, D_o (feet)	Final Depth to Water, D_f (feet)	Change in Water Level, ΔD (feet)	Observed Infiltration Rate(in/hr)
1	8:35	8:45	10.0	7.50	9.03	1.53	9.7
2	8:47	8:57	10.0	7.93	9.38	1.45	11.5
3	9:04	9:14	10.0	7.70	8.91	1.21	7.8
4	9:16	9:26	10.0	7.82	9.17	1.35	9.7
5	9:33	9:43	10.0	7.73	8.85	1.12	7.2
6	9:51	10:01	10.0	7.84	9.02	1.18	8.2

Observed Infiltration Rate (Does Not Include Any Factor of Safety) **8.2**

Sketch:

Notes:

Based on Guidelines from: San Bernardino County (2013)
Spreadsheet Revised on: 6/29/2018

LGC Geotechnical, Inc.

Infiltration Test Data Sheet

LGC Geotechnical, Inc
131 Calle Iglesia Suite 200, San Clemente, CA 92672 tel. (949) 369-6141

Project Name: Lovett Industrial - Palm
Project Number: 22081-01
Date: 5/19/2022
Boring Number: I-2

Test hole dimensions (if circular)	
Boring Depth (feet)*:	9.5
Boring Diameter (inches):	8
Pipe Diameter (inches):	3

*measured at time of test

Test pit dimensions (if rectangular)	
Pit Depth (feet):	
Pit Length (feet):	
Pit Breadth (feet):	

*Pre-Test (Sandy Soil Criteria)**

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval (min)	Initial Depth to Water (feet)	Final Depth to Water (feet)	Total Change in Water Level (feet)	Greater Than or Equal to 0.5 feet (yes/no)
1	7:38	8:03	25.0	7.26	8.93	1.67	Yes
2	8:05	8:30	25.0	7.27	8.78	1.51	Yes

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak (fill) overnight, and then obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25 inches

Main Test Data

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval, Δt (min)	Initial Depth to Water, D_o (feet)	Final Depth to Water, D_f (feet)	Change in Water Level, ΔD (feet)	Observed Infiltration Rate(in/hr)
1	8:37	8:47	10.0	7.73	8.86	1.13	9.9
2	8:49	8:59	10.0	7.12	8.57	1.45	9.6
3	9:08	9:18	10.0	7.84	8.93	1.09	10.2
4	9:20	9:30	10.0	7.04	8.39	1.35	8.3
5	9:35	9:45	10.0	7.17	8.21	1.04	6.3
6	9:53	10:03	10.0	7.54	8.65	1.11	8.5

Observed Infiltration Rate (Does Not Include Any Factor of Safety) **8.5**

Sketch:

Notes:

Based on Guidelines from: San Bernardino County (2013)
Spreadsheet Revised on: 6/29/2018

LGC Geotechnical, Inc.

Infiltration Test Data Sheet

LGC Geotechnical, Inc
131 Calle Iglesia Suite 200, San Clemente, CA 92672 tel. (949) 369-6141

Project Name: Lovett Industrial - Palm
Project Number: 22081-01
Date: 5/19/2022
Boring Number: I-3

Test hole dimensions (if circular)	
Boring Depth (feet)*:	8
Boring Diameter (inches):	8
Pipe Diameter (inches):	3

*measured at time of test

Test pit dimensions (if rectangular)	
Pit Depth (feet):	
Pit Length (feet):	
Pit Breadth (feet):	

*Pre-Test (Sandy Soil Criteria)**

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval (min)	Initial Depth to Water (feet)	Final Depth to Water (feet)	Total Change in Water Level (feet)	Greater Than or Equal to 0.5 feet (yes/no)
1	10:16	10:41	25.0	6.37	7.91	1.54	Yes
2	10:43	11:08	25.0	6.22	7.85	1.63	Yes

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak (fill) overnight, and then obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25 inches

Main Test Data

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval, Δt (min)	Initial Depth to Water, D_o (feet)	Final Depth to Water, D_f (feet)	Change in Water Level, ΔD (feet)	Observed Infiltration Rate(in/hr)
1	11:11	11:21	10.0	6.76	7.87	1.11	15.6
2	11:23	11:33	10.0	6.72	7.81	1.09	14.5
3	11:39	11:49	10.0	6.88	7.92	1.04	16.3
4	11:51	12:01	10.0	6.48	7.66	1.18	12.9
5	12:05	12:15	10.0	6.49	7.55	1.06	11.1
6	12:17	12:27	10.0	6.75	7.76	1.01	13.3

Observed Infiltration Rate (Does Not Include Any Factor of Safety) **13.3**

Sketch:

Notes:

Based on Guidelines from: San Bernardino County (2013)
Spreadsheet Revised on: 6/29/2018

LGC Geotechnical, Inc.

Appendix E
General Earthwork & Grading

General Earthwork and Grading Specifications for Rough Grading

1.0 General

1.1 Intent

These General Earthwork and Grading Specifications are for the grading and earthwork shown on the approved grading plan(s) and/or indicated in the geotechnical report(s). These Specifications are a part of the recommendations contained in the geotechnical report(s). In case of conflict, the specific recommendations in the geotechnical report shall supersede these more general Specifications. Observations of the earthwork by the project Geotechnical Consultant during the course of grading may result in new or revised recommendations that could supersede these specifications or the recommendations in the geotechnical report(s).

1.2 The Geotechnical Consultant of Record

Prior to commencement of work, the owner shall employ a qualified Geotechnical Consultant of Record (Geotechnical Consultant). The Geotechnical Consultant shall be responsible for reviewing the approved geotechnical report(s) and accepting the adequacy of the preliminary geotechnical findings, conclusions, and recommendations prior to the commencement of the grading.

Prior to commencement of grading, the Geotechnical Consultant shall review the "work plan" prepared by the Earthwork Contractor (Contractor) and schedule sufficient personnel to perform the appropriate level of observation, mapping, and compaction testing.

During the grading and earthwork operations, the Geotechnical Consultant shall observe, map, and document the subsurface exposures to verify the geotechnical design assumptions. If the observed conditions are found to be significantly different than the interpreted assumptions during the design phase, the Geotechnical Consultant shall inform the owner, recommend appropriate changes in design to accommodate the observed conditions, and notify the review agency where required.

The Geotechnical Consultant shall observe the moisture-conditioning and processing of the subgrade and fill materials and perform relative compaction testing of fill to confirm that the attained level of compaction is being accomplished as specified. The Geotechnical Consultant shall provide the test results to the owner and the Contractor on a routine and frequent basis.

1.3 The Earthwork Contractor

The Earthwork Contractor (Contractor) shall be qualified, experienced, and knowledgeable in earthwork logistics, preparation and processing of ground to receive fill, moisture-conditioning and processing of fill, and compacting fill. The Contractor shall review and accept the plans, geotechnical report(s), and these Specifications prior to commencement of grading. The Contractor shall be solely responsible for performing the grading in accordance with the project plans and specifications. The Contractor shall prepare and submit to the owner and the Geotechnical Consultant a work plan that indicates the sequence of earthwork grading, the number of “equipment” of work and the estimated quantities of daily earthwork

contemplated for the site prior to commencement of grading. The Contractor shall inform the owner and the
Geotechnical Consultant of changes in work schedules and updates to the work plan at least 24 hours in advance of such changes so that appropriate personnel will be available for observation and testing. The Contractor shall not assume that the Geotechnical Consultant is aware of all grading operations.

The Contractor shall have the sole responsibility to provide adequate equipment and methods to accomplish the earthwork in accordance with the applicable grading codes and agency ordinances, these Specifications, and the recommendations in the approved geotechnical report(s) and grading plan(s). If, in the opinion of the Geotechnical Consultant, unsatisfactory conditions, such as unsuitable soil, improper moisture condition, inadequate compaction, insufficient buttress key size, adverse weather, etc., are resulting in a quality of work less than required in these specifications, the Geotechnical Consultant shall reject the work and may recommend to the owner that construction be stopped until the conditions are rectified. It is the contractor's sole responsibility to provide proper fill compaction.

2.0 Preparation of Areas to be Filled

2.1 Clearing and Grubbing

Vegetation, such as brush, grass, roots, and other deleterious material shall be sufficiently removed and properly disposed of in a method acceptable to the owner, governing agencies, and the Geotechnical Consultant.

The Geotechnical Consultant shall evaluate the extent of these removals depending on specific site conditions. Earth fill material shall not contain more than 1 percent of organic materials (by volume). Nesting of the organic materials shall not be allowed.

If potentially hazardous materials are encountered, the Contractor shall stop work in the affected area, and a hazardous material specialist shall be informed immediately for proper evaluation and handling of these materials prior to continuing to work in that area.

As presently defined by the State of California, most refined petroleum products (gasoline, diesel fuel, motor oil, grease, coolant, etc.) have chemical constituents that are considered to be hazardous waste. As such, the indiscriminate dumping or spillage of these fluids onto the ground may constitute a misdemeanor, punishable by fines and/or imprisonment, and shall not be allowed. The contractor is responsible for all hazardous waste relating to his work. The Geotechnical Consultant does not have expertise in this area. If hazardous waste is a concern, then the Client should acquire the services of a qualified environmental assessor.

2.2 Processing

Existing ground that has been declared satisfactory for support of fill by the Geotechnical Consultant shall be scarified to a minimum depth of 6 inches. Existing ground that is not satisfactory shall be over-excavated as specified in the following section. Scarification shall continue until soils are broken down and free of oversize material and the working surface is reasonably uniform, flat, and free of uneven features that would inhibit uniform compaction.

2.3 Over-excavation

In addition to removals and over-excavations recommended in the approved geotechnical report(s) and the grading plan, soft, loose, dry, saturated, spongy, organic-rich, highly fractured or otherwise unsuitable ground shall be over-excavated to competent ground as evaluated by the Geotechnical Consultant during grading.

2.4 Benching

Where fills are to be placed on ground with slopes steeper than 5:1 (horizontal to vertical units), the ground shall be stepped or benched. Please see the Standard Details for a graphic illustration. The lowest bench or key shall be a minimum of 15 feet wide and at least 2 feet deep, into competent material as evaluated by the Geotechnical Consultant. Other benches shall be excavated a minimum height of 4 feet into competent material or as otherwise recommended by the Geotechnical Consultant. Fill placed on ground sloping flatter than 5:1 shall also be benched or otherwise over-excavated to provide a flat subgrade for the fill.

2.5 Evaluation/Acceptance of Fill Areas

All areas to receive fill, including removal and processed areas, key bottoms, and benches, shall be observed, mapped, elevations recorded, and/or tested prior to being accepted by the Geotechnical Consultant as suitable to receive fill. The Contractor shall obtain a written acceptance from the Geotechnical Consultant prior to fill placement. A licensed surveyor shall provide the survey control for determining elevations of processed areas, keys, and benches.

3.0 Fill Material

3.1 General

Material to be used as fill shall be essentially free of organic matter and other deleterious substances evaluated and accepted by the Geotechnical Consultant prior to placement. Soils of poor quality, such as those with unacceptable gradation, high expansion potential, or low strength shall be placed in areas acceptable to the Geotechnical Consultant or mixed with other soils to achieve satisfactory fill material.

3.2 Oversize

Oversize material defined as rock, or other irreducible material with a maximum dimension greater than 8 inches, shall not be buried or placed in fill unless location, materials, and placement methods are specifically accepted by the Geotechnical Consultant. Placement operations shall be such that nesting of oversized material does not occur and such that oversize material is completely surrounded by compacted or densified fill. Oversize material shall not be placed within 10 vertical feet of finish grade or within 2 feet of future utilities or underground construction.

3.3 Import

If importing of fill material is required for grading, proposed import material shall meet the requirements of the geotechnical consultant. The potential import source shall be given to the Geotechnical Consultant at least 48 hours (2 working days) before importing begins so that its suitability can be determined and appropriate tests performed.

4.0 Fill Placement and Compaction

4.1 Fill Layers

Approved fill material shall be placed in areas prepared to receive fill (per Section 3.0) in near-horizontal layers not exceeding 8 inches in loose thickness. The Geotechnical Consultant may accept thicker layers if testing indicates the grading procedures can adequately compact the thicker layers. Each layer shall be spread evenly and mixed thoroughly to attain relative uniformity of material and moisture throughout.

4.2 Fill Moisture Conditioning

Fill soils shall be watered, dried back, blended, and/or mixed, as necessary to attain a relatively uniform moisture content at or slightly over optimum. Maximum density and optimum soil moisture content tests shall be performed in accordance with the American Society of Testing and Materials (ASTM Test Method D1557).

4.3 Compaction of Fill

After each layer has been moisture-conditioned, mixed, and evenly spread, it shall be uniformly compacted to not less than 90 percent of maximum dry density (ASTM Test Method D1557). Compaction equipment shall be adequately sized and be either specifically designed for soil compaction or of proven reliability to efficiently achieve the specified level of compaction with uniformity.

4.4 Compaction of Fill Slopes

In addition to normal compaction procedures specified above, compaction of slopes shall be accomplished by backrolling of slopes with sheepsfoot rollers at increments of 3 to 4 feet in fill elevation, or by other methods producing satisfactory results acceptable to the Geotechnical Consultant. Upon completion of grading, relative compaction of the fill, out to the slope face, shall be at least 90 percent of maximum density per ASTM Test Method D1557.

4.5 Compaction Testing

Field tests for moisture content and relative compaction of the fill soils shall be performed by the Geotechnical Consultant. Location and frequency of tests shall be at the Consultant's discretion based on field conditions encountered. Compaction test locations will not necessarily be selected on a random basis. Test locations shall be selected to verify adequacy of compaction levels in areas that are judged to be prone to inadequate compaction (such as close to slope faces and at the fill/bedrock benches).

4.6 Frequency of Compaction Testing

Tests shall be taken at intervals not exceeding 2 feet in vertical rise and/or 1,000 cubic yards of compacted fill soils embankment. In addition, as a guideline, at least one test shall be taken on slope faces for each 5,000 square feet of slope face and/or each 10 feet of vertical height of slope. The Contractor shall assure that fill construction is such that the testing schedule can be accomplished by the Geotechnical Consultant. The Contractor shall stop or slow down the earthwork construction if these minimum standards are not met.

4.7 Compaction Test Locations

The Geotechnical Consultant shall document the approximate elevation and horizontal coordinates of each test location. The Contractor shall coordinate with the project surveyor to assure that sufficient grade stakes are established so that the Geotechnical Consultant can determine the test locations with sufficient accuracy. At a minimum, two grade stakes within a horizontal distance of 100 feet and vertically less than
5 feet apart from potential test locations shall be provided.

5.0 Subdrain Installation

Subdrain systems shall be installed in accordance with the approved geotechnical report(s), the grading plan, and the Standard Details. The Geotechnical Consultant may recommend additional subdrains and/or changes in subdrain extent, location, grade, or material depending on conditions encountered during grading. All subdrains shall be surveyed by a land surveyor/civil engineer for line and grade after installation and prior to burial. Sufficient time should be allowed by the Contractor for these surveys.

6.0 Excavation

Excavations, as well as over-excavation for remedial purposes, shall be evaluated by the Geotechnical Consultant during grading. Remedial removal depths shown on geotechnical plans are estimates only. The actual extent of removal shall be determined by the Geotechnical Consultant based on the field evaluation of exposed conditions during grading. Where fill-over-cut slopes are to be graded, the cut portion of the slope shall be made, evaluated, and accepted by the Geotechnical Consultant prior to placement of materials for construction of the fill portion of the slope, unless otherwise recommended by the Geotechnical Consultant.

7.0 Trench Backfills

7.1 The Contractor shall follow all OHSA and Cal/OSHA requirements for safety of trench excavations.

7.2 All bedding and backfill of utility trenches shall be done in accordance with the applicable provisions of Standard Specifications of Public Works Construction. Bedding material shall have a Sand Equivalent greater than 30 (SE>30). The bedding shall be placed to 1 foot over

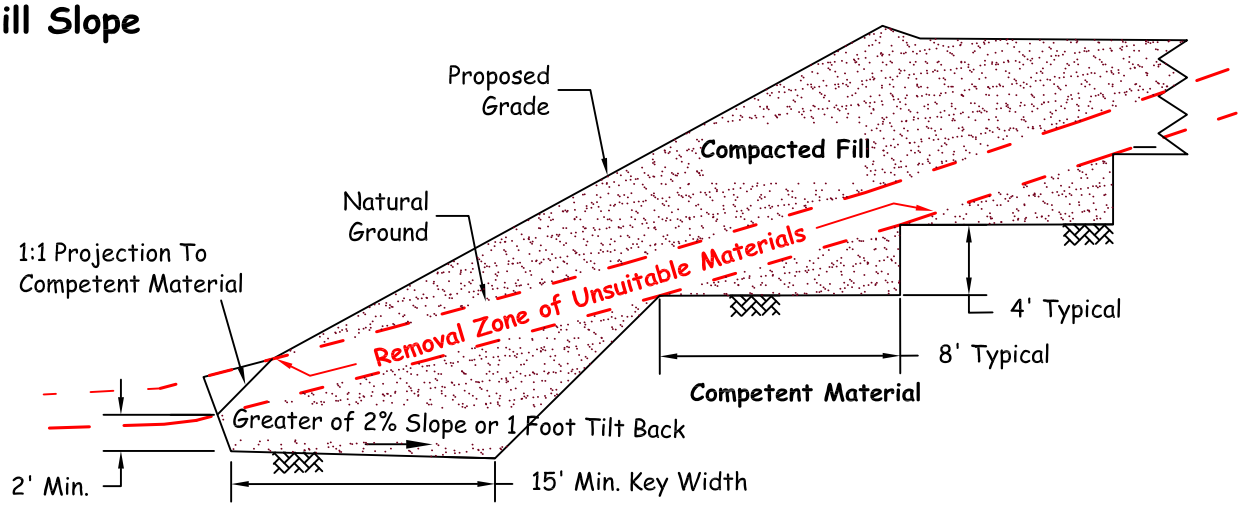
the top of the conduit and densified by jetting. Backfill shall be placed and densified to a minimum of 90 percent of maximum from 1 foot above the top of the conduit to the surface.

7.3 The jetting of the bedding around the conduits shall be observed by the Geotechnical Consultant.

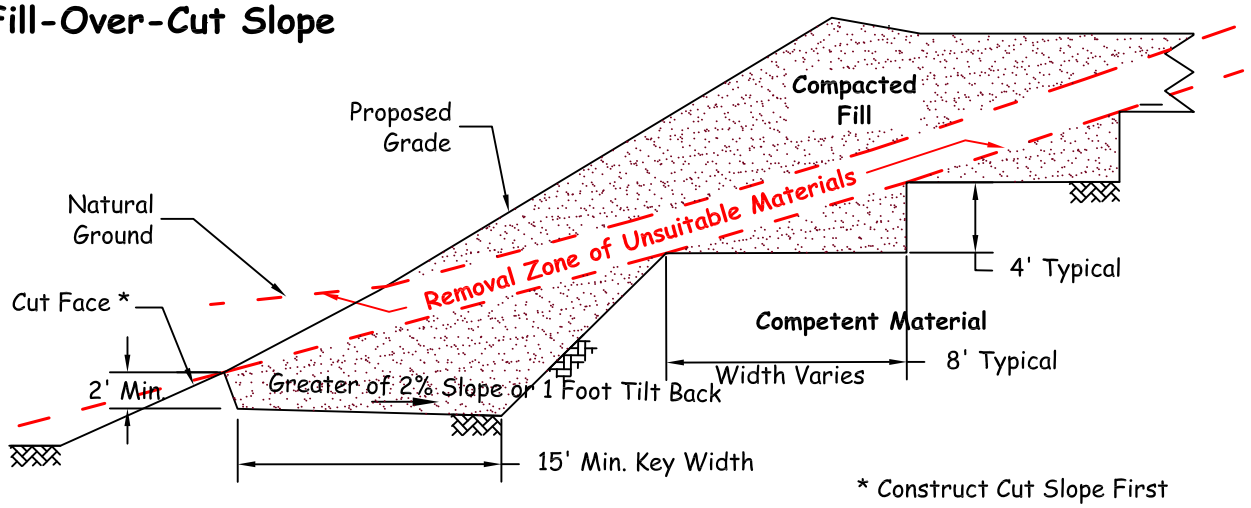
7.4 The Geotechnical Consultant shall test the trench backfill for relative compaction. At least one test should be made for every 300 feet of trench and 2 feet of fill.

7.5 Lift thickness of trench backfill shall not exceed those allowed in the Standard Specifications of Public Works Construction unless the Contractor can demonstrate to the Geotechnical Consultant that the fill lift can be compacted to the minimum relative compaction by his alternative equipment and method.

Fill Slope

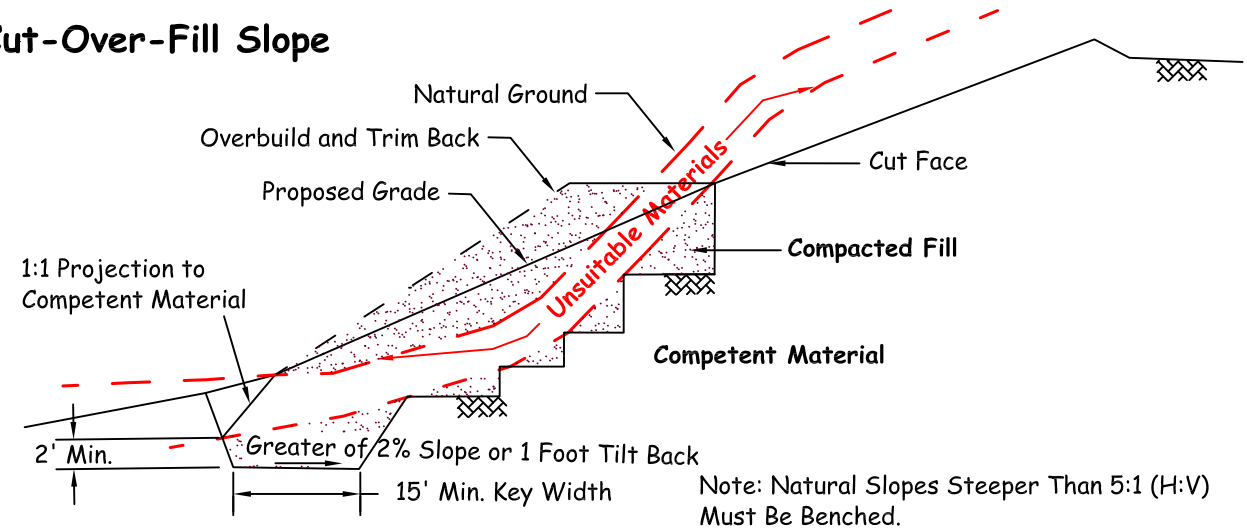


Fill-Over-Cut Slope



* Construct Cut Slope First

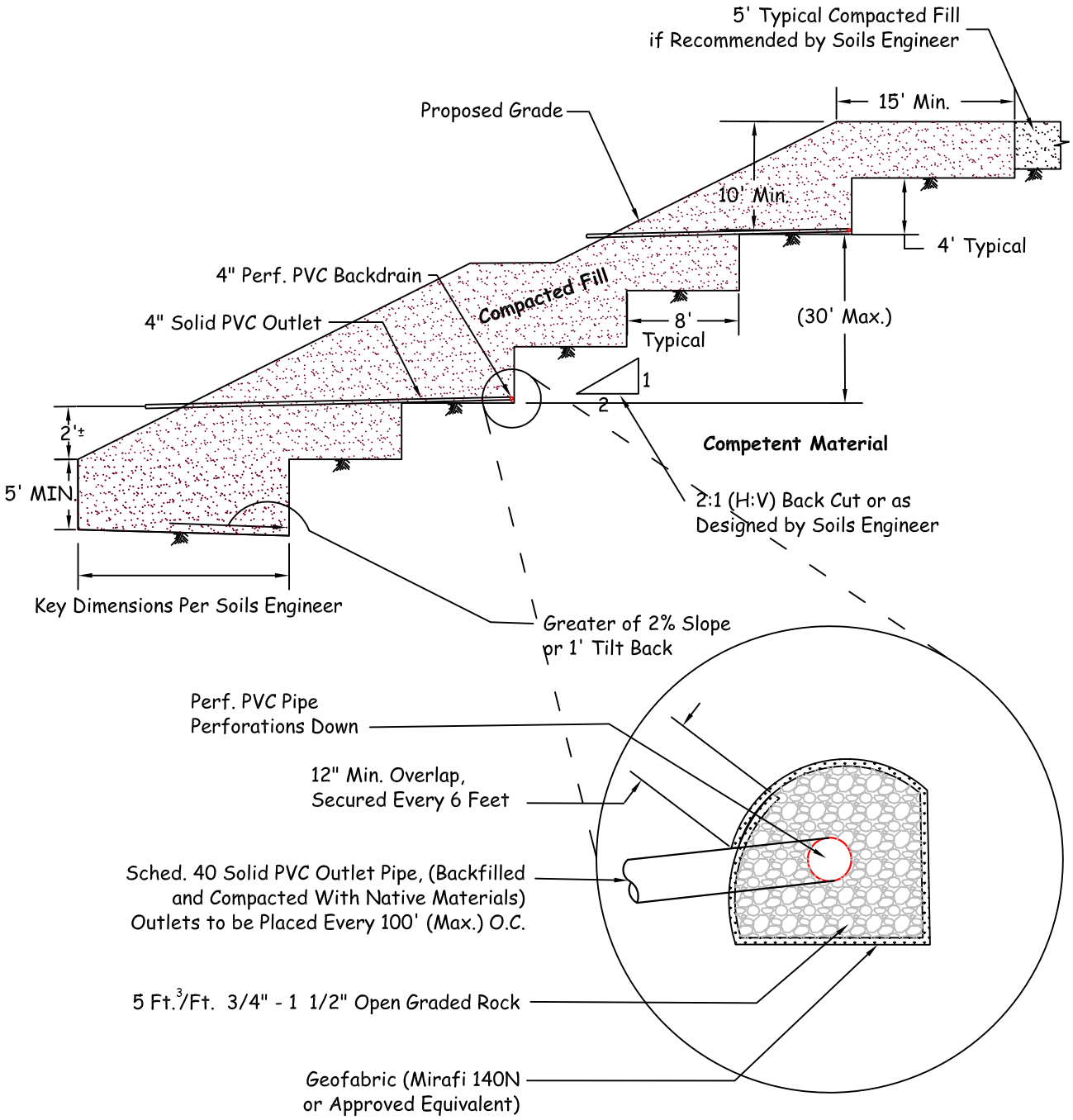
Cut-Over-Fill Slope



Note: Natural Slopes Steeper Than 5:1 (H:V) Must Be Benched.

LGC Geotechnical, Inc.

KEYING AND BENCHING



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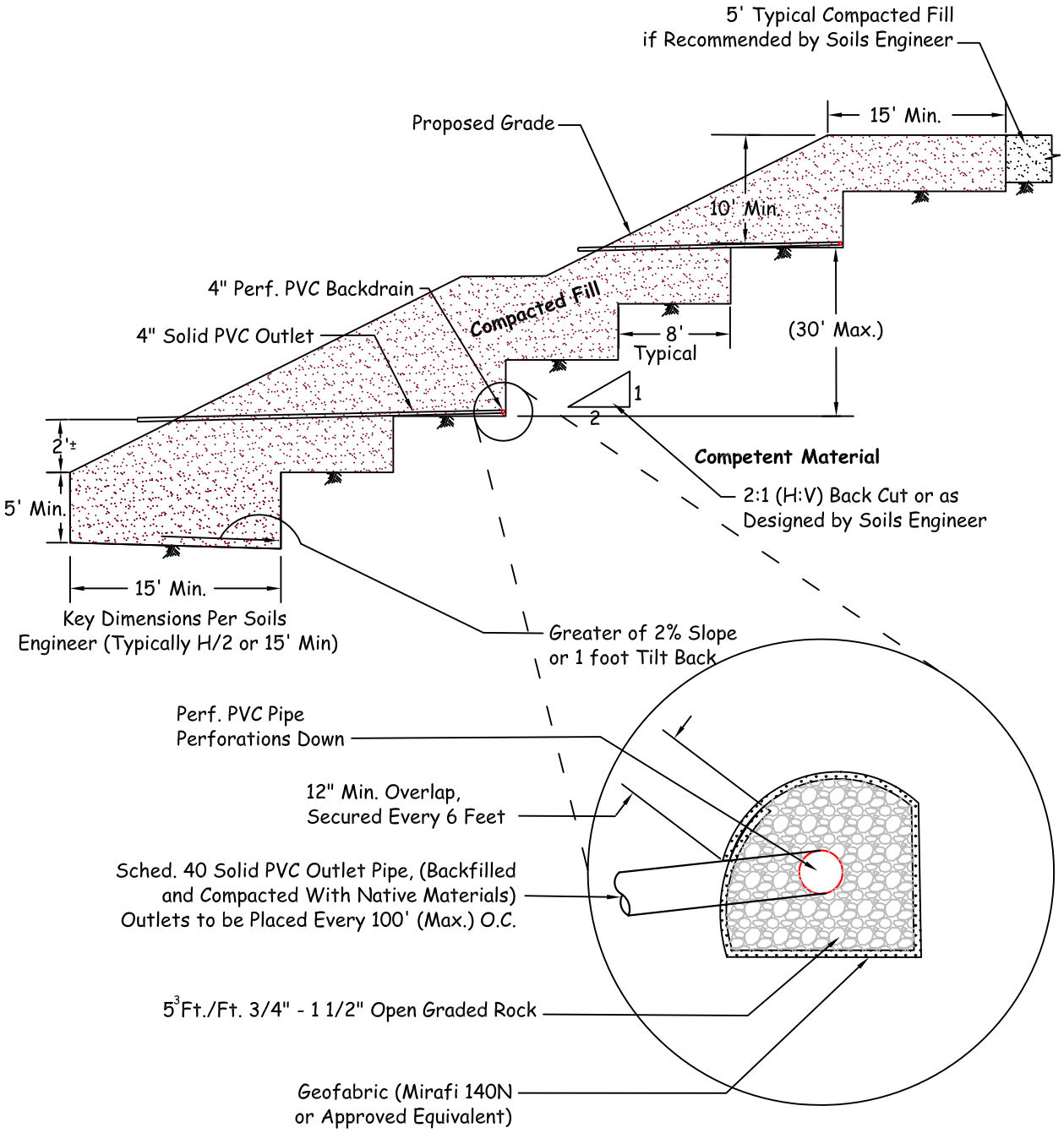
TYPICAL BUTTRESS DETAIL



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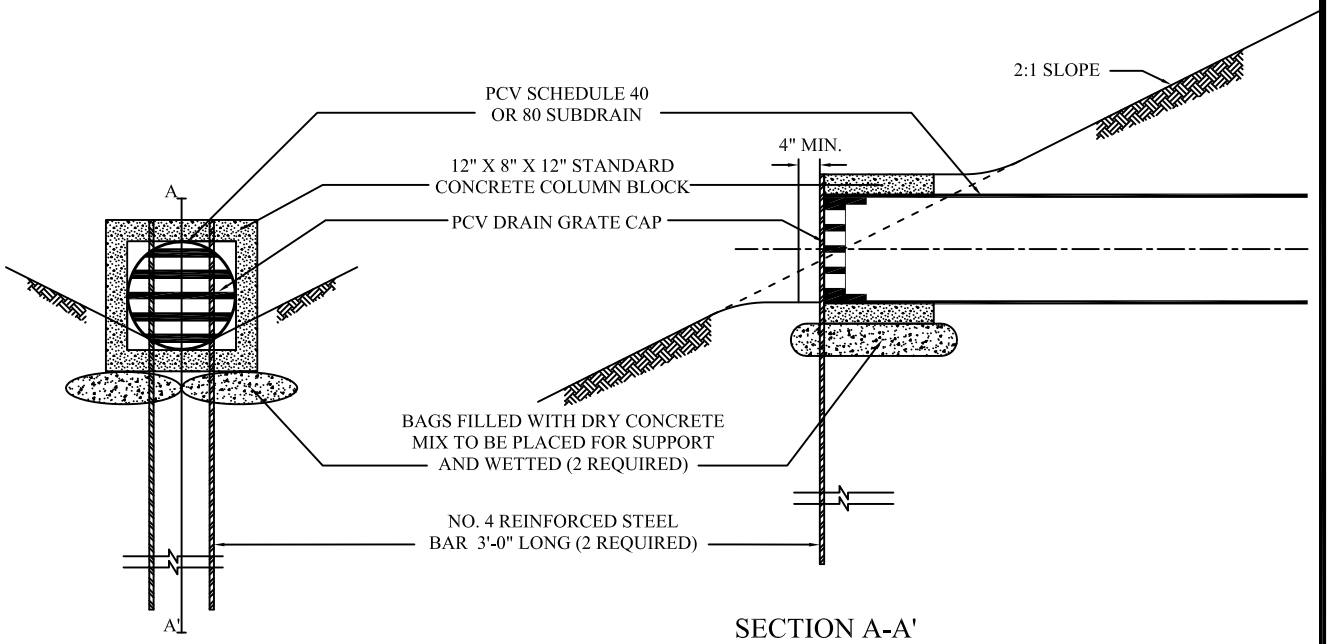
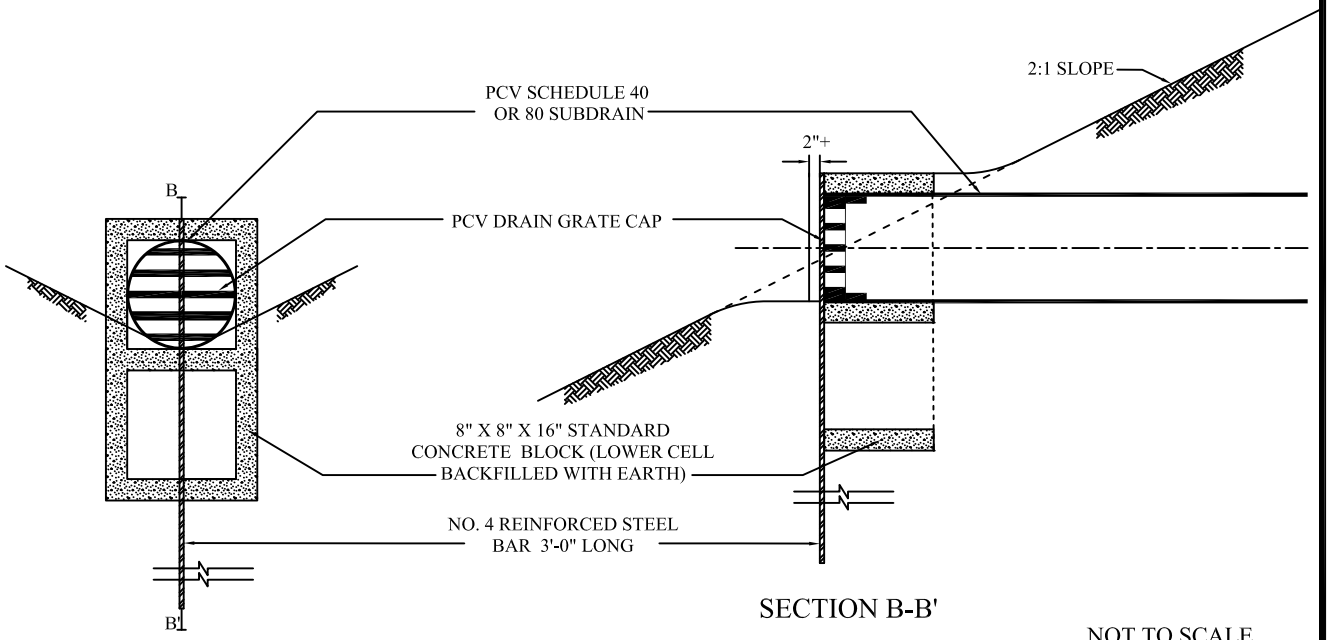
TYPICAL STABILIZATION FILL DETAIL

SUBDRAIN OUTLET MARKER -6" & 8" PIPE



SECTION A-A'

SUBDRAIN OUTLET MARKER -4" PIPE



SECTION B-B'

NOT TO SCALE

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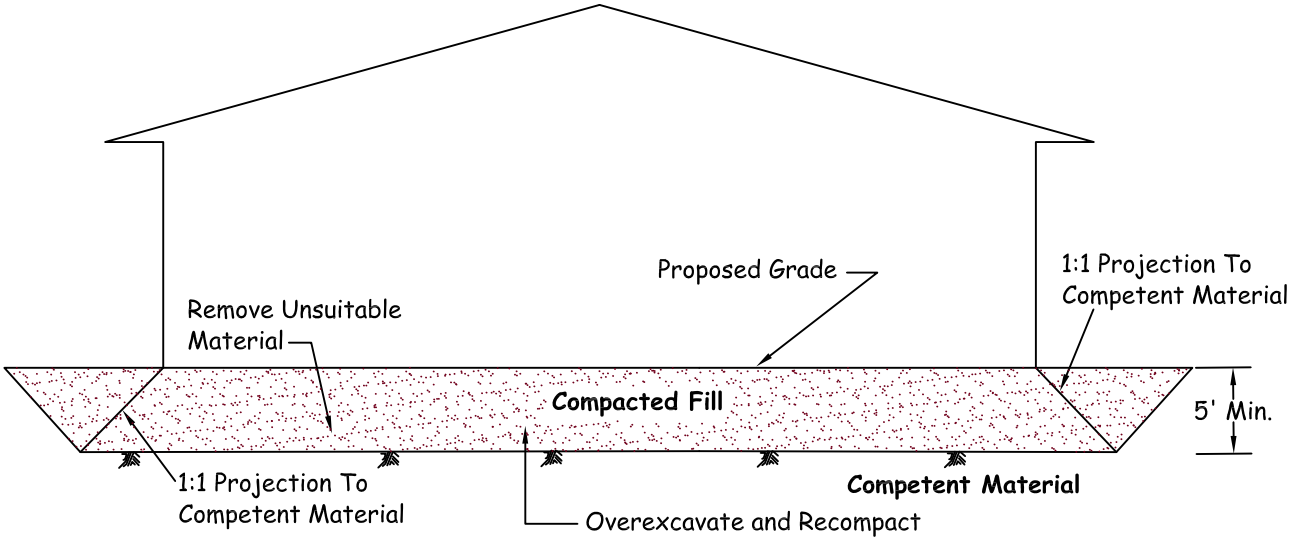
SUBDRAIN OUTLET MARKER DETAIL

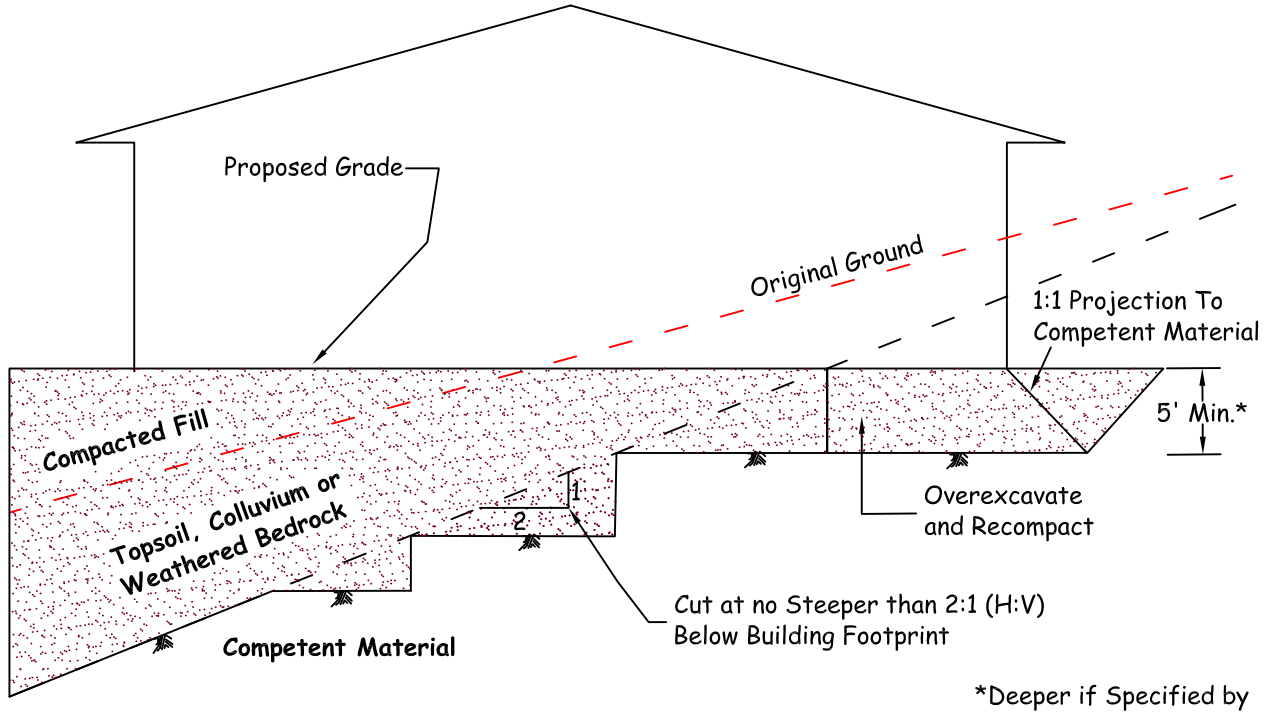
Cut Lot
(Exposing Unsuitable Soils at Design Grade)



Note 1: Removal Bottom Should be Graded With Minimum 2% Fall Towards Street or Other Suitable Area (as Determined by Soils Engineer) to Avoid Ponding Below Building

Note 2: Where Design Cut Lots are Excavated Entirely Into Competent Material, Overexcavation May Still be Required for Hard-Rock Conditions or for Materials With Variable Expansion Characteristics.

Cut/Fill Transition Lot



*Deeper if Specified by Soils Engineer

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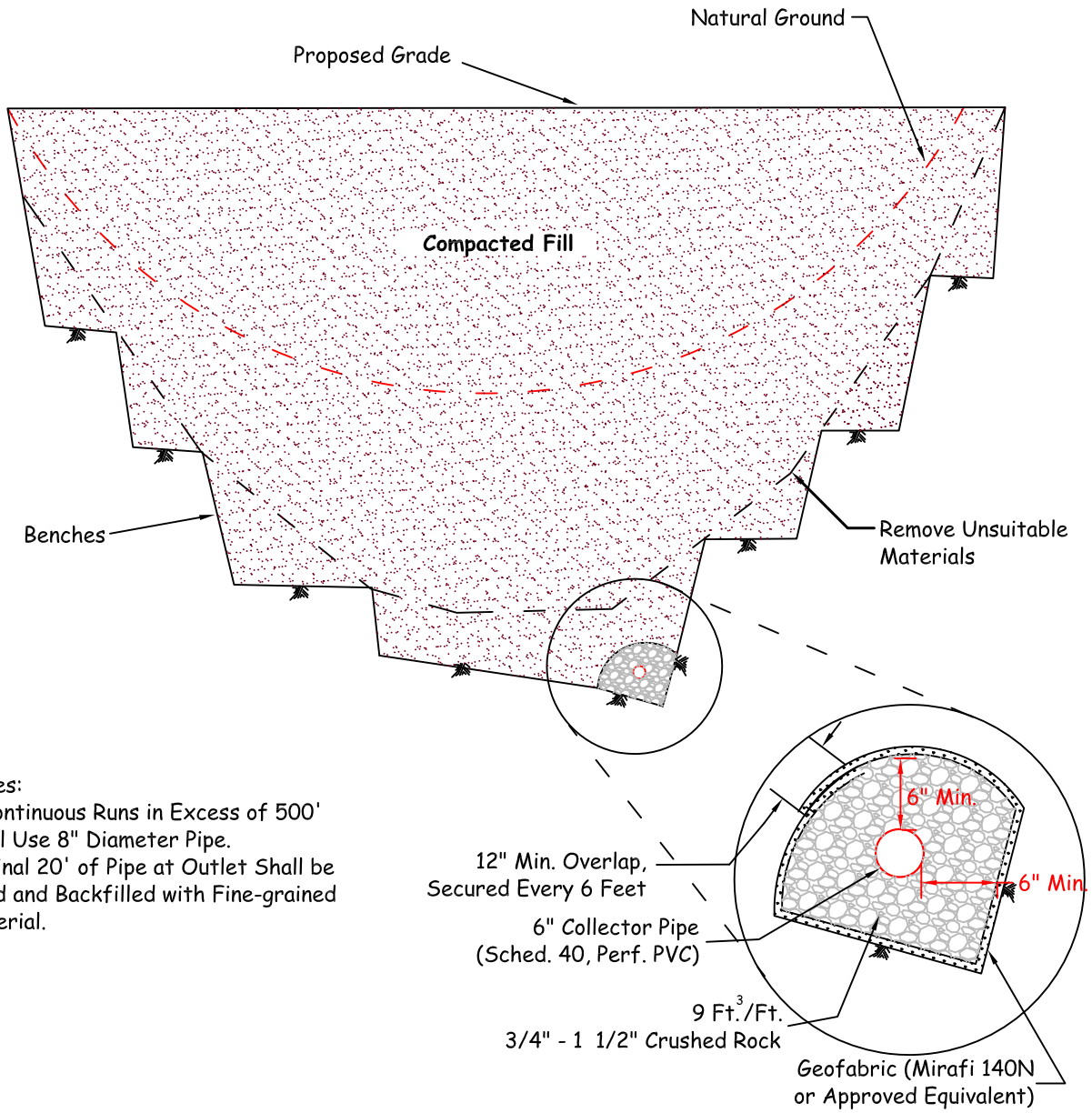
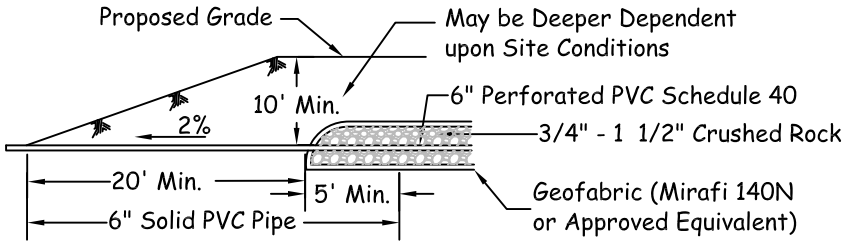
CUT AND TRANSITION LOT OVEREXCAVATION DETAIL



Notes:
1) Continuous Runs in Excess of 500' Shall Use 8" Diameter Pipe.
2) Final 20' of Pipe at Outlet Shall be Solid and Backfilled with Fine-grained Material.

Proposed Outlet Detail



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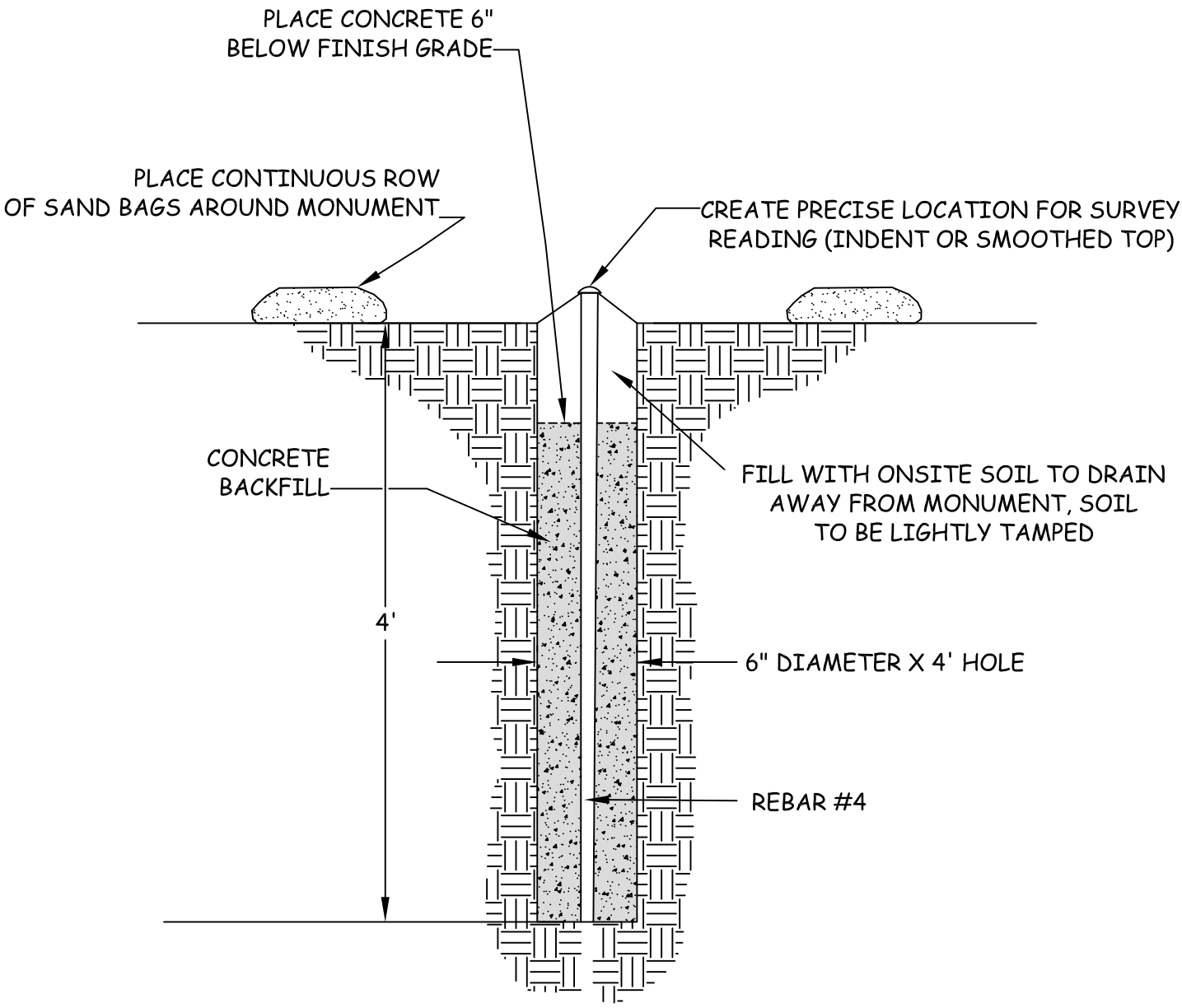
CANYON SUBDRAINS



NO CONSTRUCTION EQUIPMENT WITHIN 25 FEET
OF ANY INSTALLED SETTLEMENT MONUMENTS

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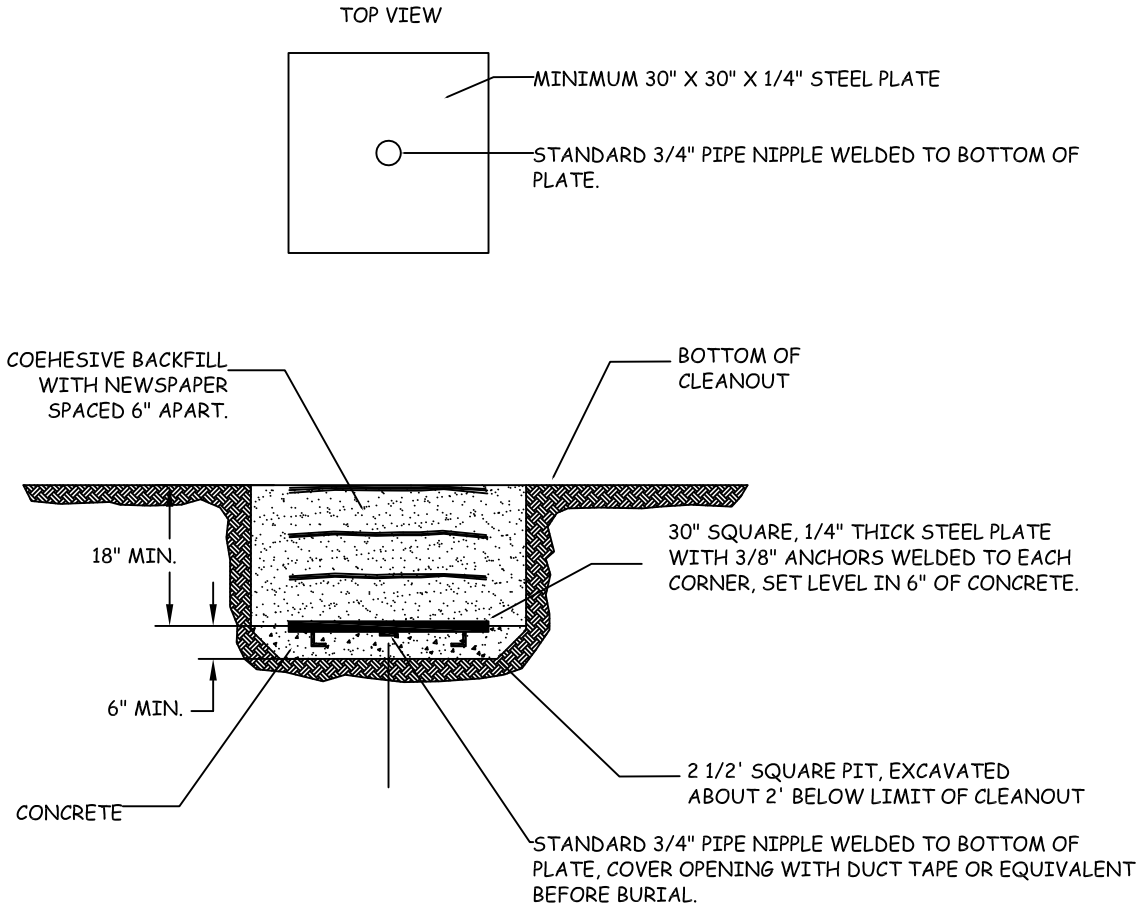
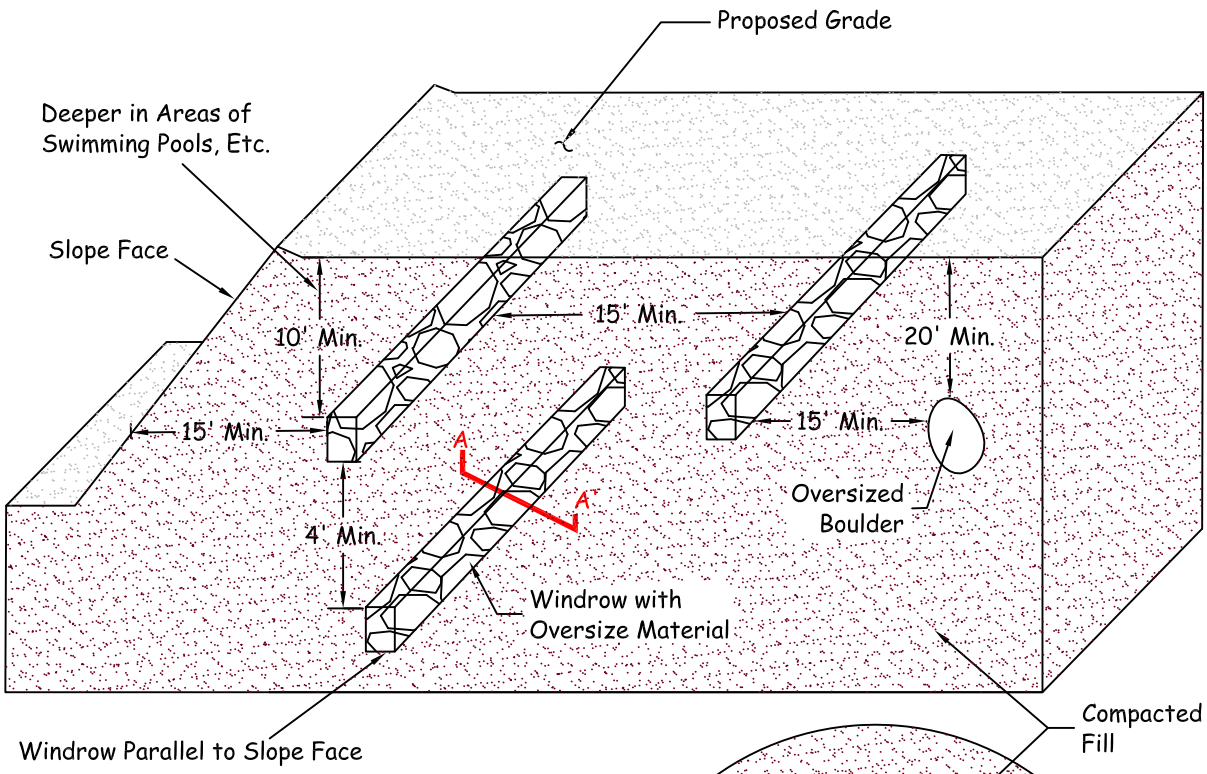
TYPICAL SURFACE SETTLEMENT MONUMENT

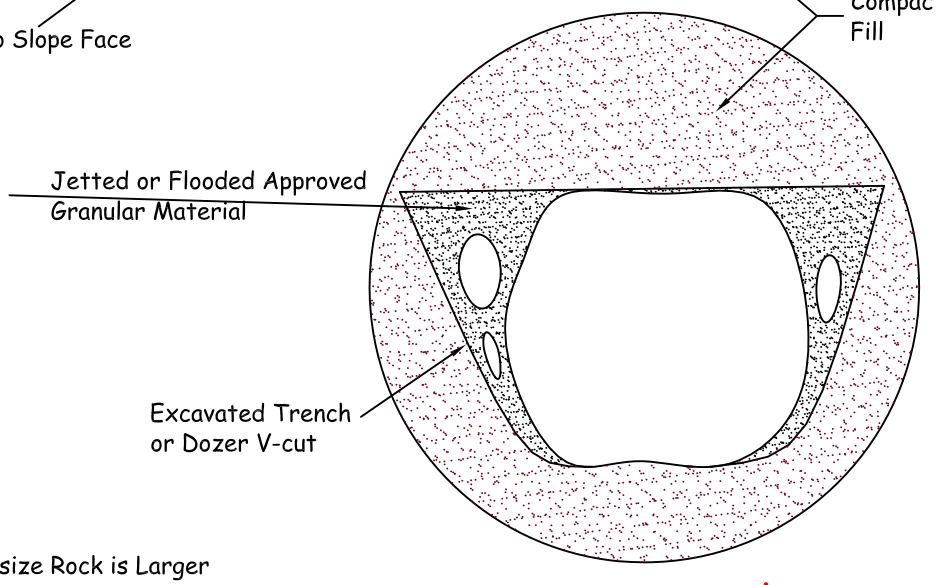


1. SURVEY FOR HORIZONTAL AND VERTICAL LOCATION TO NEAREST .01 INCH PRIOR TO BACKFILL USING KNOW LOCATIONS THAT WILL REMAIN INTACT DURING THE DURATION OF THE MONITORING PROGRAM. KNOW POINTS EXPLICITELY NOT ALLOWED ARE THOSE LOCATED ON FILL OR THAT WILL BE DESTROYED DURING GRADING.
2. IN THE EVENT OF DAMAGE TO SETTLEMENT PLATE DURING GRADING, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE GEOTECHNICAL ENGINEER AND SHALL BE RESPONSIBLE FOR RESTORING THE SETTLEMENT PLATES TO WORKING ORDER.
3. DRILL TO RECOVER AND ATTACH RISER PIPE.

LGC Geotechnical, Inc.

TYPICAL SETTLEMENT PLATE AND RISER





Note: Oversize Rock is Larger
than 8" in Maximum Dimension.

Section A-A'

LGC Geotechnical, Inc.

OVERSIZE ROCK DISPOSAL DETAIL

Appendix F

Greenhouse Gas Emissions Assessment

Greenhouse Gas Emissions Assessment
Meines Street and Palm Avenue Warehouse
City of Highland, California

Kimley»Horn
Expect More. Experience Better.

Prepared by:

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Orange, California 92868
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714.780.2551

May 2023

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APPENDIX
Appendix A: Greenhouse Gas Emissions Data

LIST OF ABBREVIATED TERMS

AB	Assembly Bill
CARB	California Air Resource Board
CCR	California Code of Regulations
CalEEMod	California Emissions Estimator Model
CEQA	California Environmental Quality Act
CALGreen Code	California Green Building Standards Code
CPUC	California Public Utilities Commission
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
CFC	Chlorofluorocarbon
CPP	Clean Power Plan
cy	Cubic yard
EPA	Environmental Protection Agency
FCAA	Federal Clean Air Act
FR	Federal Register
GHG	Greenhouse gas
HCFC	Hydrochlorofluorocarbon
HFC	Hydrofluorocarbon
LCFS	Low Carbon Fuel Standard
CH_4	Methane
$MMTCO_2e$	Million metric tons of carbon dioxide equivalent
$MTCO_2e$	Metric tons of carbon dioxide equivalent
NHTSA	National Highway Traffic Safety Administration
NF_3	Nitrogen trifluoride
N_2O	Nitrous oxide
PFC	Perfluorocarbon
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
SB	Senate Bill
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SCAG	Southern California Association of Government
Sf	Square foot
SF_6	Sulfur hexafluoride
TAC	Toxic air contaminants

1 INTRODUCTION

This report documents the results of a Greenhouse Gas (GHG) Emissions Assessment completed for the Meines Street and Palm Avenue Warehouse Project ("Project" or "proposed Project"). The purpose of this GHG Emissions Assessment is to evaluate the potential construction and operational emissions associated with the Project and determine the level of impact the Project would have on the environment.

1.1 Project Location

The proposed Project is located at the northwest corner of Meines Street and Palm Avenue in the City of Highland, California (City). The proposed site consists of 14 parcels (APN 1192-601-05, -09, and -43; 1192-621-02 through -08, and -20 through -23) on 12.8 acres. Currently, the site is used for industrial and non-conforming single-family residential uses. The Project site is relatively flat and has elevations ranging from approximately 1,175 to 1,193 feet above mean sea level (amsl). The site's topographic slightly slopes down to the west.

The Project site is bounded by the City Creek stormwater channel to the north, Palm Avenue to the east, Meines Street to the south, and an industrial lot to the west. In addition, the proposed Project is located approximately 1.2-mile northeast of the San Bernardino International Airport (SBIA).

Local access to the Project site is provided via Meines Street and Palm Avenue. The nearest major freeways to the site include Interstate 210 (I-210), located approximately 0.55-mile to the east and Interstate 10 (I-10), located approximately 2.86 miles to the south of the site; refer to Exhibit 1: Regional Location Vicinity Map and Exhibit 2: Site Vicinity Map.

1.2 Project Description

The Project proposes the development of single new industrial concrete tilt-up dock high warehouse building totaling 284,917 square feet, including 5,000 square feet of office space and 3,000 feet of mezzanine space. The structure will be supported by a screened truck yard, vehicular parking areas, tractor-trailer storage stalls, drive aisles, and landscaped areas. On-site improvements will include storm drains, stormwater/water quality treatment facilities (including underground infiltration chambers), sewer (including a private lift station), water, and dry utility systems. Additionally, minor onsite slopes and deepened building panels will be utilized. Vehicular access to the Project site will be provided by two new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site. The Project provides a total of 240 parking spaces that includes 47 trailer stalls, 159 standard auto stalls, and 34 compact auto stalls. Refer to Exhibit 3: Site Plan for further Project details.

The Project would increase onsite impermeable areas as a result of the construction of a 284,917-SF warehouse building and parking areas. However, the Project would also create a storm drain connection to the existing channel near the northwest corner of the Project site.

Project Phasing

The Project is anticipated to be developed in one phase. Construction activity is anticipated to occur over a duration of approximately 10 months, beginning in October 2023.

General Plan Land Use and Zoning Designations

As designated by the City's Development Code, the Project site has a General Plan land use designation of Industrial (I) and a Zoning designation of Industrial (I). As such, the Project is anticipated to be consistent with the existing land use and zoning.

Site Access

Local access to the Project site is provided via Meines Street, which traverses the south of the site in a west-east direction, Palm Avenue that traverses east of the site in a north-south direction. Regional access to the Project site is via the W 5th Street off-ramp from I-210. The Project would include two (2) new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The Project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site.

Walls and Fences

The Project would include the following walls and fences on-site:

- An 8-foot-high metal fence would be located along the northwestern, northeastern, and western boundaries of the Project site;
- A 10-foot-high screen wall would run along the northern property line and would also surround the truck trailer parking and loading dock area in the northern portion of the site; and
- Two 8-foot-high metal gates would border the western and eastern boundaries of the truck loading area in the northern portion of the site.

Parking

The Project proposes to provide a total of 240 parking spaces that include 159 standard parking stalls (9 feet by 19 feet), 34 compact auto stalls (9 feet by 14 feet), and 47 trailer parking stalls (10 feet by 53 feet). Trailer stalls would be positioned along the northern Project boundary to the north of the loading dock area. The proposed auto standard parking stalls would be provided along the northeast, east, and west portions of the site.

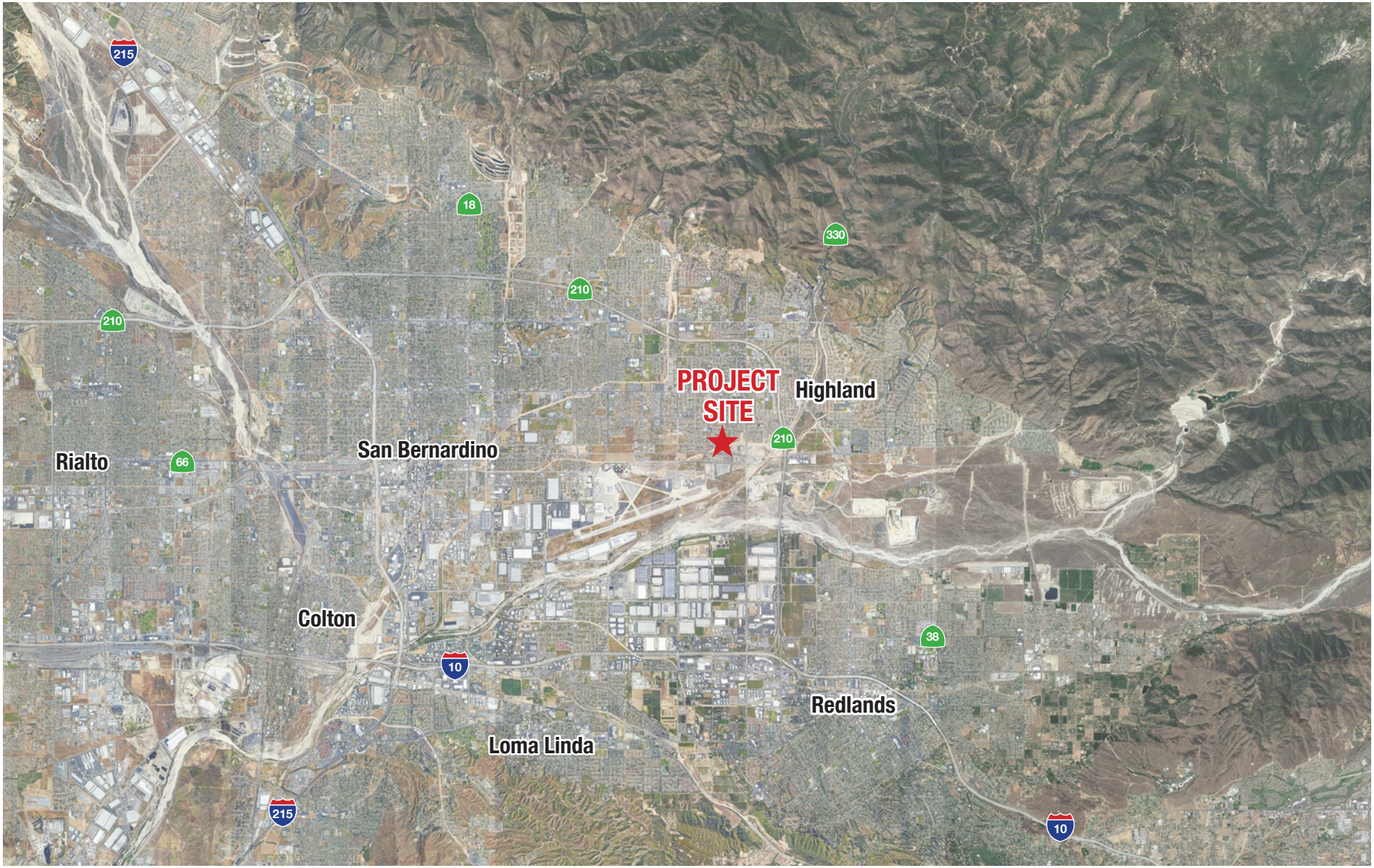

EXHIBIT 1: Regional Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

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EXHIBIT 2: Site Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

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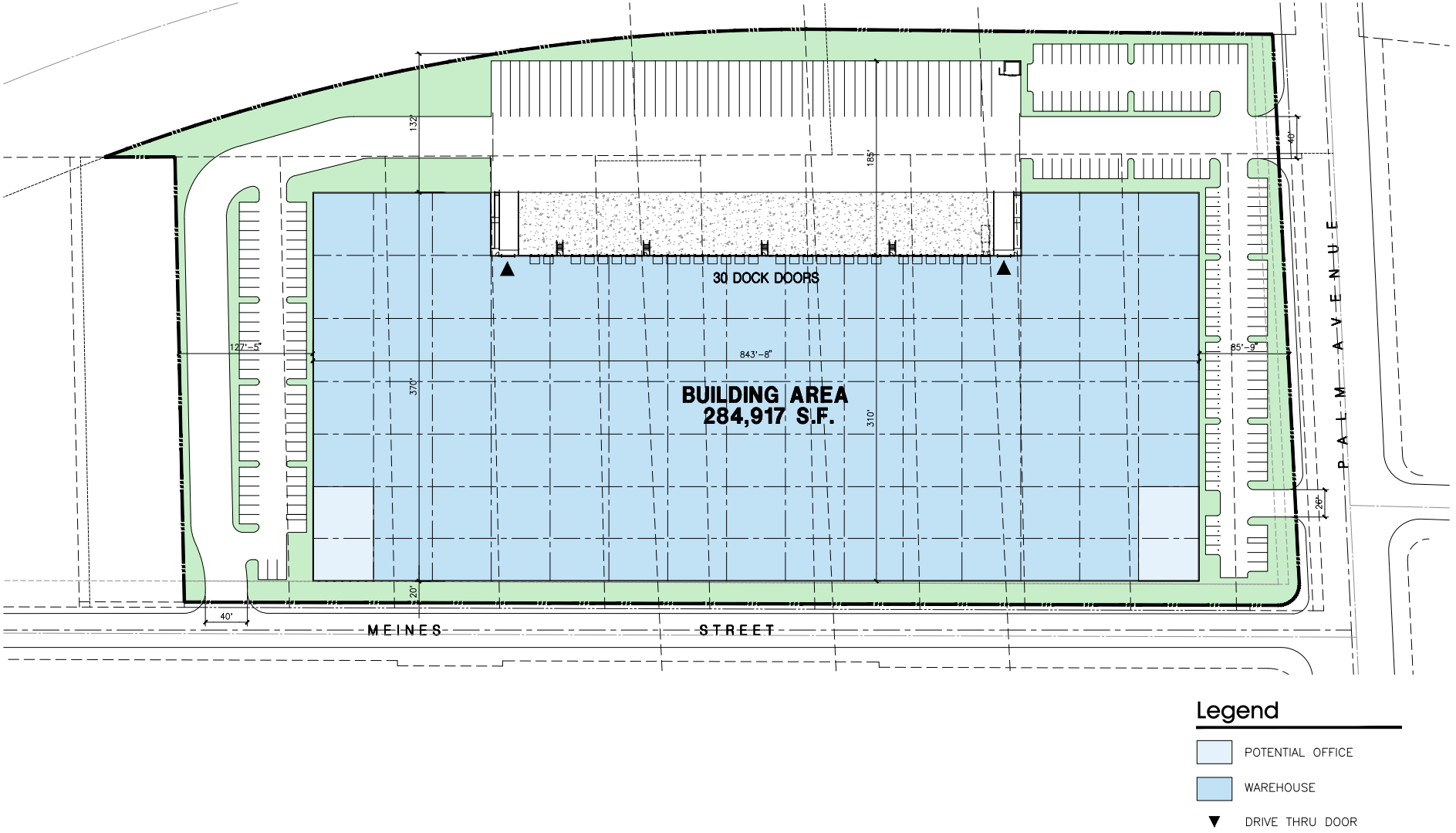

EXHIBIT 3: Site Plan

Meines Street and Palm Avenue Warehouse Project

City of Highland

Not to Scale

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2 ENVIRONMENTAL SETTING

2.1 Greenhouse Gases and Climate Change

Certain gases in the earth's atmosphere classified as GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. A portion of the radiation is absorbed by the earth's surface and a smaller portion of this radiation is reflected back toward space. This absorbed radiation is then emitted from the earth as low-frequency infrared radiation. The frequencies at which bodies emit radiation are proportional to temperature. Because the earth has a much lower temperature than the sun, it emits lower-frequency radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead "trapped," resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth.

The primary GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). Fluorinated gases also make up a small fraction of the GHGs that contribute to climate change. Examples of fluorinated gases include chlorofluorocarbons (CFCs), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3); however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of GHGs exceeding natural ambient concentrations are believed to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the Earth's climate, known as global climate change or global warming.

GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants (TACs), which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about one day), GHGs have long atmospheric lifetimes (one to several thousand years). GHGs persist in the atmosphere for long enough time periods to be dispersed around the globe. Although the exact lifetime of a GHG molecule is dependent on multiple variables and cannot be pinpointed, more CO_2 is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, or other forms of carbon sequestration. Of the total annual human-caused CO_2 emissions, approximately 55 percent is sequestered through ocean and land uptakes every year, averaged over the last 50 years, whereas the remaining 45 percent of human-caused CO_2 emissions remains stored in the atmosphere.[1] Table 1: Description of Greenhouse Gases describes the primary GHGs attributed to global climate change, including their physical properties.

[1] Intergovernmental Panel on Climate Change, *Carbon and Other Biogeochemical Cycles. In: Climate Change 2013: The Physical Science Basis*, *Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, 2013. http://www.climatechange2013.org/ images/report/WG1AR5_ALL_FINAL.pdf.

Table 1: Description of Greenhouse Gases

Greenhouse Gas	Description
Carbon Dioxide (CO_2)	CO_2 is a colorless, odorless gas that is emitted naturally and through human activities. Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood. The largest source of CO_2 emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, and industrial facilities. The atmospheric lifetime of CO_2 is variable because it is readily exchanged in the atmosphere. CO_2 is the most widely emitted GHG and is the reference gas (Global Warming Potential of 1) for determining Global Warming Potentials for other GHGs.
Nitrous Oxide (N_2O)	N_2O is largely attributable to agricultural practices and soil management. Primary human-related sources of N_2O include agricultural soil management, sewage treatment, combustion of fossil fuels, and adipic and nitric acid production. N_2O is produced from biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N_2O is approximately 120 years. The Global Warming Potential of N_2O is 298.
Methane (CH_4)	CH_4, a highly potent GHG, primarily results from off-gassing (the release of chemicals from nonmetallic substances under ambient or greater pressure conditions) and is largely associated with agricultural practices and landfills. Methane is the major component of natural gas, about 87 percent by volume. Human-related sources include fossil fuel production, animal husbandry, rice cultivation, biomass burning, and waste management. Natural sources of CH_4 include wetlands, gas hydrates, termites, oceans, freshwater bodies, non-wetland soils, and wildfires. The atmospheric lifetime of CH_4 is about 12 years and the Global Warming Potential is 25.
Hydrofluorocarbons (HFCs)	HFCs are typically used as refrigerants for both stationary refrigeration and mobile air conditioning. The use of HFCs for cooling and foam blowing is increasing, as the continued phase out of CFCs and HCFCs gains momentum. The 100-year Global Warming Potential of HFCs range from 124 for HFC-152 to 14,800 for HFC-23.
Perfluorocarbons (PFCs)	PFCs have stable molecular structures and only break down by ultraviolet rays about 60 kilometers above Earth's surface. Because of this, they have long lifetimes, between 10,000 and 50,000 years. Two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Global Warming Potentials range from 6,500 to 9,200.
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. They are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). CFCs were synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. The Montreal Protocol on Substances that Deplete the Ozone Layer prohibited their production in 1987. Global Warming Potentials for CFCs range from 3,800 to 14,400.
Sulfur Hexafluoride (SF_6)	SF_6 is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. This gas is manmade and used for insulation in electric power transmission equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas. The Global Warming Potential of SF_6 is 23,900.
Hydrochlorofluorocarbons (HCFCs)	HCFCs are solvents, similar in use and chemical composition to CFCs. The main uses of HCFCs are for refrigerant products and air conditioning systems. As part of the Montreal Protocol, HCFCs are subject to a consumption cap and gradual phase out. The United States is scheduled to achieve a 100 percent reduction to the cap by 2030. The 100-year Global Warming Potentials of HCFCs range from 90 for HCFC-123 to 1,800 for HCFC-142b.
Nitrogen Trifluoride (NF_3)	NF_3 was added to Health and Safety Code section 38505(g)(7) as a GHG of concern. This gas is used in electronics manufacture for semiconductors and liquid crystal displays. It has a high global warming potential of 17,200.

Source: Compiled from U.S. EPA, *Overview of Greenhouse Gases*, April 11, 2018 (https://www.epa.gov/ghgemissions/overview-greenhouse-gases); U.S. EPA, *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2016*, 2018; Intergovernmental Panel on Climate Change, *Climate Change 2007: The Physical Science Basis*, 2007; National Research Council, Advancing the Science of Climate Change, 2010; U.S. EPA, *Methane and Nitrous Oxide Emission from Natural Sources*, April 2010.

3 REGULATORY SETTING

3.1 Federal

To date, national standards have not been established for nationwide GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at the project level. Various efforts have been promulgated at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects.

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 (December 2007), among other key measures, requires the following, which would aid in the reduction of national GHG emissions:

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020 and direct the National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

U.S. Environmental Protection Agency Endangerment Finding

The U.S. Environmental Protection Agency's (U.S. EPA) authority to regulate GHG emissions stems from the U.S. Supreme Court decision in *Massachusetts v. EPA* (2007). The Supreme Court ruled that GHGs meet the definition of air pollutants under the existing Federal Clean Air Act (FCAA) and must be regulated if these gases could be reasonably anticipated to endanger public health or welfare. Responding to the Court's ruling, the U.S. EPA finalized an endangerment finding in December 2009. Based on scientific evidence it found that six GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6) constitute a threat to public health and welfare. Thus, it is the Supreme Court's interpretation of the existing FCAA and the U.S. EPA's assessment of the scientific evidence that form the basis for the U.S. EPA's regulatory actions.

Federal Vehicle Standards

In response to the U.S. Supreme Court ruling discussed above, Executive Order 13432 was issued in 2007 directing the U.S. EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the U.S. EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016.

In 2010, an Executive Memorandum was issued directing the Department of Transportation, Department of Energy, U.S. EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the U.S. EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO_2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021, and NHTSA intends to set standards for model years 2022–2025 in a future rulemaking. On January 12, 2017, the U.S. EPA finalized its decision to maintain the current GHG emissions standards for model years 2022–2025 cars and light trucks. It should be noted that the U.S. EPA is currently proposing to freeze the vehicle fuel efficiency standards at their planned 2020 level (37 mpg), canceling any future strengthening (currently 54.5 mpg by 2026).

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the U.S. EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018. The standards for CO_2 emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the U.S. EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6 to 23 percent over the 2010 baseline.

In August 2016, the U.S. EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO_2 emissions by approximately 1.1 billion metric tons and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program.[2]

On September 27, 2019, the U.S. EPA and the NHTSA published the "Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program." (84 Fed. Reg. 51,310 (Sept. 27, 2019.)[3] The SAFE Rule (Part One) revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. On March 31, 2020, the U.S. EPA and NHTSA finalized rulemaking for SAFE Part Two sets CO_2 emissions standards and corporate average fuel economy (CAFE) standards for passenger vehicles and light duty trucks, covering model years 2021-2026. The current U.S. EPA administration has repealed SAFE Rule Part One, effective January 28, 2022 and is reconsidering Part Two.

In December 2021, the U.S. EPA finalized federal GHG emissions standards for passenger cars and light trucks for Model Years 2023 through 2026. These standards are the strongest vehicle emissions standards ever established for the light-duty vehicle sector and are based on sound science and grounded in a

[2] U.S. EPA and NHTSA, *Greenhouse Gas Emissions and Fuel Efficiency Standards for Medium and Heavy-Duty Engines and Vehicles – Phase 2,* 2016. Available at: https://www.gpo.gov/fdsys/pkg/FR-2016-10-25/pdf/2016-21203.pdf. Accessed May 2023.

[3] U.S. EPA and NHTSA, Federal Register, Vol. 84, No. 188, *The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program*, September 27, 2019. Available at: https://www.govinfo.gov/content/pkg/FR-2019-09-27/pdf/2019-20672.pdf. Accessed May 2023.

rigorous assessment of current and future technologies. The updated standards will result in avoiding more than 3 billion tons of GHG emissions through 2050.[4]

3.2 State of California

California Air Resources Board

The California Air Resources Board (CARB) is responsible for the coordination and oversight of State and local air pollution control programs in California. Various statewide and local initiatives to reduce California's contribution to GHG emissions have raised awareness about climate change and its potential for severe long-term adverse environmental, social, and economic effects. California is a significant emitter of CO_2 equivalents (CO_2e) in the world and produced 369 million gross metric tons of carbon dioxide equivalent ($MMTCO_2e$) in 2020.[5] The transportation sector is the State's largest emitter of GHGs, followed by industrial operations such as manufacturing and oil and gas extraction.

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation, such as the landmark Assembly Bill (AB) 32, *California Global Warming Solutions Act of 2006*, was specifically enacted to address GHG emissions. Other legislation, such as Title 24 building efficiency standards and Title 20 appliance energy standards, were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the legislation's major provisions.

Assembly Bill 32 (California Global Warming Solutions Act of 2006)

AB 32 instructs the CARB to develop and enforce regulations for the reporting and verification of statewide GHG emissions. AB 32 also directed CARB to set a GHG emissions limit based on 1990 levels, to be achieved by 2020. It set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner.

2017 CARB Scoping Plan

CARB adopted the Scoping Plan to achieve the goals of AB 32. The Scoping Plan establishes an overall framework for the measures that would be adopted to reduce California's GHG emissions. CARB determined that achieving the 1990 emissions level would require a reduction of GHG emissions of approximately 29 percent below what would otherwise occur in 2020 in the absence of new laws and regulations (referred to as "business-as-usual").[6] The Scoping Plan evaluates opportunities for sector-specific reductions, integrates early actions and additional GHG reduction measures by both CARB and the State's Climate Action Team, identifies additional measures to be pursued as regulations, and outlines

[4] U.S. EPA, *Final Rule to Revise Existing National GHG Emissions Standards for Passenger Cars and Light Trucks Through Model Year 2026,* 2021. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-revise-existing-national-ghg-emissions. Accessed May 2023.

[5] California Air Resources Board, *Current California GHG Emissions Inventory Data, 2000-2020 GHG inventory (2022 Edition)*, https://ww2.arb.ca.gov/ghg-inventory-data, accessed May 2023.

[6] CARB defines business-as-usual (BAU) in its Scoping Plan as emissions levels that would occur if California continued to grow and add new GHG emissions but did not adopt any measures to reduce emissions. Projections for each emission-generating sector were compiled and used to estimate emissions for 2020 based on 2002–2004 emissions intensities. Under CARB's definition of BAU, new growth is assumed to have the same carbon intensities as was typical from 2002 through 2004.

the adopted role of a cap-and-trade program.[7] Additional development of these measures and adoption of the appropriate regulations occurred through the end of 2013. Key elements of the Scoping Plan include:

- Expanding and strengthening existing energy efficiency programs, as well as building and appliance standards.
- Achieving a statewide renewables energy mix of 33 percent by 2020.
- Developing a California cap-and-trade program that links with other programs to create a regional market system and caps sources contributing 85 percent of California's GHG emissions (adopted in 2011).
- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets (several sustainable community strategies have been adopted).
- Adopting and implementing measures pursuant to existing State laws and policies, including California's clean car standards, heavy-duty truck measures, the Low Carbon Fuel Standard (amendments to the Pavley Standard adopted 2009; Advanced Clean Car standard adopted 2012), goods movement measures, and the Low Carbon Fuel Standard (adopted 2009).
- Creating targeted fees, including a public goods charge on water use, fees on gasses with high global warming potential, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation.
- The California Sustainable Freight Action Plan was developed in 2016 and provides a vision for California's transition to a more efficient, more economically competitive, and less polluting freight transport system. This transition of California's freight transport system is essential to supporting the State's economic development in coming decades while reducing pollution.
- CARB's Mobile Source Strategy demonstrates how the State can simultaneously meet air quality standards, achieve GHG emission reduction targets, decrease health risk from transportation emissions, and reduce petroleum consumption over the next fifteen years. The mobile Source Strategy includes increasing ZEV buses and trucks.

In 2012, CARB released revised estimates of the expected 2020 emissions reductions. The revised analysis relied on emissions projections updated in light of current economic forecasts that accounted for the economic downturn since 2008, reduction measures already approved and put in place relating to future fuel and energy demand, and other factors. This update reduced the projected 2020 emissions from 596 million metric tons of CO_2e ($MMTCO_2e$) to 545 $MMTCO_2e$. The reduction in forecasted 2020 emissions means that the revised business-as-usual reduction necessary to achieve AB 32's goal of reaching 1990 levels by 2020 is now 21.7 percent, down from 29 percent. CARB also provided a lower 2020 inventory forecast that incorporated State-led GHG emissions reduction measures already in place. When this lower forecast is considered, the necessary reduction from business-as-usual needed to achieve the goals of AB 32 is approximately 16 percent.

[7] The Climate Action Team, led by the secretary of the California Environmental Protection Agency, is a group of State agency secretaries and heads of agencies, boards, and departments. Team members work to coordinate statewide efforts to implement global warming emissions reduction programs and the State's Climate Adaptation Strategy.

CARB adopted the first major update to the Scoping Plan on May 22, 2014. The updated Scoping Plan summarizes the most recent science related to climate change, including anticipated impacts to California and the levels of GHG emissions reductions necessary to likely avoid risking irreparable damage. It identifies the actions California has already taken to reduce GHG emissions and focuses on areas where further reductions could be achieved to help meet the 2020 target established by AB 32.

In 2016, the Legislature passed Senate Bill (SB) 32, which codifies a 2030 GHG emissions reduction target of 40 percent below 1990 levels. With SB 32, the Legislature passed companion legislation, AB 197, which provides additional direction for developing the Scoping Plan. On December 14, 2017 CARB adopted a second update to the Scoping Plan[8]. The 2017 Scoping Plan details how the State will reduce GHG emissions to meet the 2030 target set by Executive Order B-30-15 and codified by SB 32. Other objectives listed in the 2017 Scoping Plan are to provide direct GHG emissions reductions; support climate investment in disadvantaged communities; and support other Federal actions.

2022 CARB Scoping Plan

Adopted December 15, 2022, CARB's *2022 Scoping Plan for Achieving Carbon Neutrality* (2022 Scoping Plan) sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279. To achieve the targets of AB 1279, the 2022 Scoping Plan relies on existing and emerging fossil fuel alternatives and clean technologies, as well as carbon capture and storage. Specifically, the 2022 Scoping Plan focuses on zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen. The 2022 Scoping Plan sets one of the most aggressive approaches to reach carbon neutrality in the world. Unlike the 2017 Scoping Plan, CARB no longer includes a numeric per capita threshold and instead advocates for compliance with a local GHG reduction strategy (i.e., Climate Action Plan) consistent with CEQA Guidelines section 15183.5.

The key elements of the 2022 CARB Scoping Plan focus on transportation. Specifically, the 2022 Scoping Plan aims to rapidly move towards zero-emission transportation (i.e., electrifying cars, buses, trains, and trucks), which constitutes California's single largest source of GHGs. The regulations that impact the transportation sector are adopted and enforced by CARB on vehicle manufacturers and are outside the jurisdiction and control of local governments. The 2022 Scoping Plan accelerates development of new regulations as well as amendments to strengthen regulations and programs already in place.

Included in the 2022 Scoping Plan is a set of Local Actions (2022 Scoping Plan Appendix D) aimed at providing local jurisdictions with tools to reduce GHGs and assist the state in meeting the ambitious targets set forth in the 2022 Scoping Plan. Appendix D to the 2022 Scoping Plan includes a section on evaluating plan-level and project-level alignment with the State's Climate Goals in CEQA GHG analyses. In this section, CARB identifies several recommendations and strategies that should be considered for new development in order to determine consistency with the 2022 Scoping Plan. Notably, this section is focused on Residential and Mixed-Use Projects.[9] CARB specifically states that Appendix D does not address

[8] California Air Resources Board, *California's 2017 Climate Change Scoping Plan,* November 2017.
[9] California Air Resources Board, *2022 Scoping Plan for Achieving Carbon Neutrality*, *Appendix D: Local Actions*, Page 21, November 2022.

other land uses (e.g., industrial).[10] However, CARB plans to explore new approaches for other land use types in the future.[11]

As such, it would be inappropriate to apply the requirements contained in Appendix D of the 2022 Scoping Plan to any land use types other than residential or mixed-use residential development.

Senate Bill 32 (California Global Warming Solutions Act of 2006: Emissions Limit)

Signed into law in September 2016, SB 32 codifies the 2030 GHG reduction target in Executive Order B-30-15 (40 percent below 1990 levels by 2030). The bill authorizes CARB to adopt an interim GHG emissions level target to be achieved by 2030. CARB also must adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective GHG reductions. With SB 32, the Legislature passed companion legislation, AB 197, which provides additional direction for developing the Scoping Plan.

SB 375 (The Sustainable Communities and Climate Protection Act of 2008)

Signed into law on September 30, 2008, SB 375 provides a process to coordinate land use planning, regional transportation plans, and funding priorities to help California meet AB 32's GHG reduction goals. SB 375 requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, aligns planning for transportation and housing, and creates specified incentives for the implementation of the strategies.

AB 1493 (Pavley Regulations and Fuel Efficiency Standards)

AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the U.S. EPA's denial of an implementation waiver. The U.S. EPA subsequently granted the requested waiver in 2009, which was upheld by the by the U.S. District Court for the District of Columbia in 2011. The regulations establish one set of emission standards for passenger vehicle and light duty truck model years 2009–2016 and a second set of emissions standards for model years 2017 to 2025. By 2025, when all rules will be fully implemented, new passenger vehicles are anticipated to emit 34 percent fewer CO_2e emissions and 75 percent fewer smog-forming emissions.

SB 1368 (Emission Performance Standards)

SB 1368, which is AB 32's companion bill, directs the California Public Utilities Commission (CPUC) to adopt a performance standard for GHG emissions for the future power purchases of California utilities. SB 1368 limits carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. The new law effectively prevents California's utilities from investing in, otherwise financially supporting, or purchasing power from new coal plants located in or out of the State. The CPUC adopted the regulations required by SB 1368 on August 29, 2007. The regulations implementing SB 1368 establish a standard for baseload generation owned by, or under long-term contract to publicly owned utilities, for 1,100 pounds of CO_2 per megawatt-hour.

[10] Ibid.
[11] Ibid.

SB 1078, SB 107, and SBX1-2 (Renewable Electricity Standards)

SB 1078 (2002) required California to generate 20 percent of its electricity from renewable energy by 2017. SB 107 (2006) changed the due date to 2010 instead of 2017. On November 17, 2008, Governor Arnold Schwarzenegger signed Executive Order S-14-08, which established a Renewable Portfolio Standard target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. Executive Order S-21-09 also directed CARB to adopt a regulation by July 31, 2010, requiring the State's load serving entities to meet a 33 percent renewable energy target by 2020. CARB approved the Renewable Electricity Standard on September 23, 2010 by Resolution 10-23. SBX1-2 (2011) codified the 33 percent by 2020 goal.

SB 350 (Clean Energy and Pollution Reduction Act of 2015)

Signed into law on October 7, 2015, SB 350 implements Executive Order B-30-15's goals. The SB 350 objectives are to increase the procurement of electricity from renewable sources from 33 percent to 50 percent (with interim targets of 40 percent by 2024, and 45 percent by 2027) and to double the energy efficiency savings in electricity and natural gas end uses of retail customers through energy efficiency and conservation. SB 350 also reorganizes the Independent System Operator to develop more regional electricity transmission markets and improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.

AB 398 (Market-Based Compliance Mechanisms)

Signed on July 25, 2017, AB 398 extended the duration of the Cap-and-Trade program from 2020 to 2030. AB 398 required CARB to update the Scoping Plan and for all GHG rules and regulations adopted by the State. It also designated CARB as the statewide regulatory body responsible for ensuring that California meets its statewide carbon pollution reduction targets, while retaining local air districts' responsibility and authority to curb toxic air contaminants and criteria pollutants from local sources that severely impact public health. AB 398 also decreased free carbon allowances over 40 percent by 2030 and prioritized Cap-and-Trade spending to various programs including reducing diesel emissions in impacted communities.

SB 150 (Regional Transportation Plans)

Signed on October 10, 2017, SB 150 aligns local and regional GHG reduction targets with State targets (i.e., 40 percent below their 1990 levels by 2030). SB 150 creates a process to include communities in discussions on how to monitor their regions' progress on meeting these goals. The bill also requires the CARB to regularly report on that progress, as well as on the successes and the challenges regions experience associated with achieving their targets. SB 150 provides for accounting of climate change efforts and GHG reductions and identify effective reduction strategies.

SB 100 (California Renewables Portfolio Standard Program: Emissions of Greenhouse Gases)

Signed into law in September 2018, SB 100 increased California's renewable electricity portfolio from 50 to 60 percent by 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045.

AB 1346 (Air Pollution: Small Off-Road Engines)

Signed into Law in October 2021, AB 1346 requires CARB, to adopt cost-effective and technologically feasible regulations to prohibit engine exhaust and evaporative emissions from new small off-road engines, consistent with federal law, by July 1, 2022. The bill requires CARB to identify and, to the extent feasible, make available funding for commercial rebates or similar incentive funding as part of any updates to existing applicable funding program guidelines to local air pollution control districts and air quality management districts to implement to support the transition to zero-emission small off-road equipment operations.

AB 1279 (The California Climate Crisis Act)

Signed on September 16, 2022, AB 1279 established the goal to achieve net-zero GHG emissions no later than 2045 and net negative thereafter. The bill establishes a goal toward at least an 85% reduction target for anthropogenic GHG emissions below statewide emissions limit from Section 36550 of the California Health and Safety Code.

SB 1020 (100 Percent Clean Electric Grid)

Signed on September 16, 2022, SB 1020 provides additional goals for the path to the 2045 goal of 100 percent clean electricity retail sales. It creates a target of 90 percent clean electricity retail sales by 2035 and 95 percent clean electricity retail sales by 2040.

SB 905 (Carbon Sequestration Program)

Signed on September 16, 2022, SB 905 establishes regulatory framework and policies that involve carbon removal, carbon capture, utilization, and sequestration. It also prohibits the injecting of concentrated carbon dioxide fluid into a Class II injection well for the purpose of enhanced oil recovery.

AB 1757 (Nature-Based Solutions)

Signed on September 16, 2022, AB 1757 requires state agencies to develop a range of targets for natural carbon sequestration and nature-based climate solutions that reduce GHG emissions to meet the 2030, 2038, and 2045 goals which would be integrated into a scoping plan addressing natural and working lands.

Executive Orders Related to GHG Emissions

California's Executive Branch has taken several actions to reduce GHGs using executive orders. Although not regulatory, they set the tone for the State and guide the actions of state agencies.

Executive Order S-3-05. Executive Order S-3-05 was issued on June 1, 2005, which established the following GHG emissions reduction targets:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Executive Order S-01-07. Issued on January 18, 2007, Executive Order S 01-07 mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. The executive order established a Low Carbon Fuel Standard (LCFS) and directed the Secretary for Environmental Protection to coordinate the actions of the California Energy Commission (CEC), CARB, the University of California, and other agencies to develop and propose protocols for measuring the "life-cycle carbon intensity" of transportation fuels. CARB adopted the LCFS on April 23, 2009.

Executive Order S-13-08. Issued on November 14, 2008, Executive Order S-13-08 facilitated the California Natural Resources Agency development of the 2009 California Climate Adaptation Strategy. Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order S-14-08. Issued on November 17, 2008, Executive Order S-14-08 expands the State's Renewable Energy Standard to 33 percent renewable power by 2020. Additionally, Executive Order S-21-09 (signed on September 15, 2009) directs CARB to adopt regulations requiring 33 percent of electricity sold in the State come from renewable energy by 2020. CARB adopted the Renewable Electricity Standard on September 23, 2010, which requires 33 percent renewable energy by 2020 for most publicly owned electricity retailers.

Executive Order S-21-09. Issued on July 17, 2009, Executive Order S-21-09 directs CARB to adopt regulations to increase California's Renewable Portfolio Standard (RPS) to 33 percent by 2020. This builds upon SB 1078 (2002), which established the California RPS program, requiring 20 percent renewable energy by 2017, and SB 107 (2006), which advanced the 20 percent deadline to 2010, a goal which was expanded to 33 percent by 2020 in the 2005 Energy Action Plan II.

Executive Order B-30-15. Issued on April 29, 2015, Executive Order B-30-15 established a California GHG reduction target of 40 percent below 1990 levels by 2030 and directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of CO_2e (MMTCO2e). The 2030 target acts as an interim goal on the way to achieving reductions of 80 percent below 1990 levels by 2050, a goal set by Executive Order S-3-05. The executive order also requires the State's climate adaptation plan to be updated every three years and for the State to continue its climate change research program, among other provisions. With the enactment of SB 32 in 2016, the Legislature codified the goal of reducing GHG emissions by 2030 to 40 percent below 1990 levels.

Executive Order B-55-18. Issued on September 10, 2018, Executive Order B-55-18 establishes a goal to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. This goal is in addition to the existing statewide targets of reducing GHG emissions. The executive order requires CARB to work with relevant state agencies to develop a framework for implementing this goal. It also requires CARB to update the Scoping Plan to identify and recommend measures to achieve carbon neutrality. The executive order also requires state agencies to develop sequestration targets in the Natural and Working Lands Climate Change Implementation Plan.

Executive Order N-79-20. Signed in September 2020, Executive Order N-79-20 establishes as a goal that where feasible, all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, will be zero-emission by 2035. The executive order sets a similar goal requiring that all medium and heavy-duty vehicles will be zero-emission by 2045 where feasible. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new zero emission vehicles (ZEVs) "towards the target of 100 percent." The executive order directs the California Environmental Protection Agency, the California Geologic Energy Management Division (CalGEM), and the California Natural Resources Agency to transition and repurpose oil production facilities with a goal toward meeting carbon neutrality by 2045. Executive Order N-79-20 builds upon the CARB Advanced Clean Trucks regulation, which was adopted by CARB in July 2020.

California Regulations and Building Codes

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California's energy consumption relatively flat even with rapid population growth.

Title 20 Appliance Efficiency Regulations. The appliance efficiency regulations (California Code of Regulations [CCR] Title 20, Sections 1601-1608) include standards for new appliances. Twenty-three categories of appliances are included in the scope of these regulations. These standards include minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy- and water-efficient appliances.

Title 24 Building Energy Efficiency Standards. California's Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR Title 24, Part 6) was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The CEC adopted the 2022 Energy Code on August 11, 2021, which was subsequently approved by the California Building Standards Commission for inclusion into the California Building Standards Code. The 2022 Energy Code encourages efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, strengthens ventilation standards, and more. Buildings whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code.

Title 24 California Green Building Standards Code. The California Green Building Standards Code (CCR Title 24, Part 11 code) commonly referred to as the CALGreen Code, is a statewide mandatory construction code developed and adopted by the California Building Standards Commission and the Department of Housing and Community Development. The CALGreen standards require new residential and commercial buildings to comply with mandatory measures under the topics of planning and design, energy efficiency, water efficiency/conservation, material conservation and resource efficiency, and environmental quality. CALGreen also provides voluntary tiers and measures that local governments may adopt that encourage or require additional measures in the five green building topics. The latest update to the CALGreen Code went into effect January 1, 2020 (2019 CALGreen). The 2019 CALGreen standards improve upon the previous standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The new 2019 CALGreen standards require residential buildings are required to be solar ready through solar panels (refer to Section 110.10 in the 2019 Building Energy Efficiency

Standards for more details). The CEC adopted the 2022 CALGreen Code, which went into effect on January 1, 2023.

CARB Advanced Clean Truck Regulation. CARB adopted the Advanced Clean Truck Regulation in June 2020 requiring truck manufacturers to transition from diesel trucks and vans to electric zero-emission trucks beginning in 2024. By 2045, every new truck sold in California is required to be zero-emission. This rule directly addresses disproportionate risks and health and pollution burdens and puts California on the path for an all zero-emission short-haul drayage fleet in ports and railyards by 2035, and zero-emission "last-mile" delivery trucks and vans by 2040. The Advanced Clean Truck Regulation accelerates the transition of zero-emission medium-and heavy-duty vehicles from Class 2b to Class 8. The regulation has two components including a manufacturer sales requirement, and a reporting requirement:

- Zero-Emission Truck Sales: Manufacturers who certify Class 2b through 8 chassis or complete vehicles with combustion engines are required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales need to be 55 percent of Class 2b – 3 truck sales, 75 percent of Class 4 – 8 straight truck sales, and 40 percent of truck tractor sales.

- Company and Fleet Reporting: Large employers including retailers, manufacturers, brokers and others would be required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, would be required to report about their existing fleet operations. This information would help identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

3.3 Regional

South Coast Air Quality Management District Thresholds

The South Coast Air Quality Management District (SCAQMD) formed a GHG California Environmental Quality Act (CEQA) Significance Threshold Working Group to provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents. This working group was formed to assist SCAQMD's efforts to develop a GHG significance threshold and is composed of a wide variety of stakeholders including the State Office of Planning and Research, CARB, the Attorney General's Office, a variety of city and county planning departments in the SCAB, various utilities such as sanitation and power companies throughout the SCAB, industry groups, and environmental and professional organizations. The Working Group has proposed a tiered approach to evaluating GHG emissions for development projects where SCAQMD is not the lead agency, wherein projects are evaluated sequentially through a series of "tiers" to determine whether the project is likely to result in a potentially significant impact due to GHG emissions.

With the tiered approach, a project is compared against the requirements of each tier sequentially and would not result in a significant impact if it complies with any tier. Tier 1 excludes projects that are specifically exempt from SB 97 from resulting in a significant impact. Tier 2 excludes projects that are consistent with a GHG reduction plan that has a certified final CEQA document and complies with AB 32 GHG reduction goals. Tier 3 excludes projects with annual emissions lower than a screening threshold. The SCAQMD has adopted a threshold of 10,000 $MTCO_2e$ per year for industrial projects and a 3,000 $MTCO_2e$ threshold was proposed for non-industrial projects but has not been adopted. During Working Group Meeting #7 it was explained that this threshold was derived using a 90 percent capture rate of a

large sampling of industrial facilities. During Meeting #8, the Working Group defined industrial uses as production, manufacturing, and fabrication activities or storage and distribution. The Working Group indicated that the 10,000 $MTCO_2e$ per year threshold applies to both emissions from construction and operational phases plus indirect emissions (electricity, water use, etc.). The SCAQMD concluded that projects with emissions less than the screening threshold would not result in a significant cumulative impact.

Tier 4 consists of three decision tree options. Under the Tier 4 first option, SCAQMD initially outlined that a project would be excluded if design features and/or mitigation measures resulted in emissions 30 percent lower than business as usual emissions. However, the Working Group did not provide a recommendation for this approach. The Working Group folded the Tier 4 second option into the third option. Under the Tier 4 third option, a project would be excluded if it was below an efficiency-based threshold of 4.8 $MTCO_2e$ per service population per year. Tier 5 would exclude projects that implement offsite mitigation (GHG reduction projects) or purchase offsets to reduce GHG emission impacts to less than the proposed screening level.

Tier 3 Screening Thresholds

When the tiered approach is applied to a proposed project, and the project is found not to comply with Tier 1 or Tier 2, the project's emissions are compared against a screening threshold, as described above, for Tier 3. The screening threshold formally adopted by SCAQMD is an "interim" screening threshold for stationary source industrial projects where the SCAQMD is the lead agency under CEQA. The threshold was termed "interim" because, at the time, SCAQMD anticipated that CARB would be adopting a statewide significance threshold that would inform and provide guidance to SCAQMD in its adoption of a final threshold. However, no statewide threshold was ever adopted, and the interim threshold remains in effect.

For projects for which SCAQMD is not a lead agency, no screening thresholds have been formally adopted. However, the SCAQMD Working Group has recommended a threshold of 10,000 $MTCO_2e$/year for industrial projects and 3,000 $MTCO_2e$/year for residential and commercial projects. SCAQMD determined that these thresholds would "capture" 90 percent of GHG emissions from these sectors, "capture" meaning that 90 percent of total emissions from all new projects would be subject to some type of CEQA analysis (i.e., found potentially significant).[12]

Southern California Association of Governments

On September 3, 2020, SCAG's Regional Council adopted Connect SoCal (2020 - 2045 Regional Transportation Plan/Sustainable Communities Strategy [2020 RTP/SCS]). The RTP/SCS charts a course for closely integrating land use and transportation so that the region can grow smartly and sustainably. The strategy was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. The RTP/SCS is a long-range vision plan that balances future mobility and housing needs with economic, environmental, and public health goals. The SCAG region strives toward

[12] SCAQMD, "Staff Report: Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans," December 5, 2008, Attachment E: "Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold," October 2008, p. 3-2.

sustainability through integrated land use and transportation planning. The SCAG region must achieve specific federal air quality standards and is required by state law to lower regional GHG emissions.

3.4 Local

City of Highland General Plan

The following are relevant goals and policies of the Highland General Plan, which may reduce GHG emissions impacts.

Circulation Element

Policy 3.1.1 Require new development proposals to ensure that all mid-block street segments operate at LOS "D" or better during the peak hours of traffic.

Policy 3.1.2 Ensure that all intersections operate at LOS "D" or better during the peak hours of traffic.

Policy 3.1.10 Encourage major employers to reduce vehicular trips by offering incentive concepts discussed in the General Plan Circulation Element, including but not limited to reduced transit passes and preferential parking for ridesharing.

Policy 3.2.5 Develop and implement programs and policies that require additional improvements or mitigation from industries or entities that generate heavy truck traffic and pavement impacts.

Policy 3.4.11 Encourage and improve pedestrian connections from residential neighborhoods to retail activity centers, employment centers, schools, parks, open space areas and community centers.

Goal 3.5 **Promote bus service and paratransit improvements.**

Policy 3.5.1 Continue to support the regional bus system to provide intracity service, intercity service to major employment centers, and connection to regional transportation transfer points.

Policy 3.5.2 Plan for the provision of areas within the City to be used as park-and-ride regional bus and carpool facilities.

Policy 3.5.3 Work with Omnitrans to ensure that transit services are extended to serve residents in the eastern portion of the study area.

Policy 3.5.5 Ensure accessibility of disabled persons to public transportation.

Policy 3.5.7 Support privately funded local transit systems for commuter residents and maintain local transit systems for seniors and youth.

Policy 3.7.1 Develop a system of continuous and convenient bicycle routes to places of employment, shopping centers, schools, and other high activity areas with potential for increased bicycle use.

Policy 3.7.4 Assure that local bicycle routes will complement regional systems and be compatible with routes of neighboring municipalities.

Policy 3.8.5 Coordinate transit planning with the Southern California Association of Governments, SANBAG, Omnitrans and adjacent communities.

Policy 3.8.6 Work with the Southern California Commuter Rail Council and the San Bernardino Association of Governments and Omnitrans to establish a transit connection with the Metrolink Commuter Rail System.

Policy 3.8.8 Coordinate with human services agencies and public schools to reduce duplicate transportation where feasible.

Policy 3.9.6 Develop strategies for the control of parking demand such as improved transit service, amenities for bicyclists and rideshare vehicles.

Public Services and Facilities Element

Policy 4.5.3 Reduce the volume of solid waste material sent to landfills by continuing source reduction, recycling and composting programs in compliance with State law and encouraging the participation of all residents and businesses in these programs.

Land Use Element

Policy 2.1.1 Actively plan and promote the development of the Town Center, Golden Triangle and other designated mixed-use areas.

Policy 2.10.3 Provide access to multiple modes of travel, including pedestrian, bicycle, transit and automobile.

Conservation and Open Space Element

Policy 5.10.29 Locate parks and recreation facilities within convenient walking and biking distance of all neighborhoods.

Policy 5.16.1 Consolidate and adopt energy-saving practices for all City departments.

Policy 5.16.2 Monitor energy usage for all City facilities.

Policy 5.16.4 Distribute energy-conservation information, in both English and Spanish, to residents and businesses.

Policy 5.16.5 Coordinate energy-related policies and actions with local utilities and energy agencies.

Policy 5.17.1 Encourage energy and environmentally sustainable designs— such as "Green Development Standards"—in the design and approval of new projects.

Policy 5.17.7 Encourage energy-efficient retrofitting of existing buildings, where practical, throughout the City including assisting applicants in the installation of more efficient HVAC (heating, ventilation, air conditioning) systems.

Policy 5.17.8 Distribute and participate in incentive programs for incorporation of solar and photovoltaic panels (active solar) into existing or new buildings.

Policy 5.19.1 Reduce locally generated emissions through traffic flow improvements (including signal synchronization) and construction management practices.

Policy 5.19.2 Encourage the use of public transit within the City through coordination with regional transit providers and publication of routes and timetables on the City website and publications.

Policy 5.19.3 Encourage land use planning and urban design that reduces vehicle trips through mixed and multi-use development, consolidation of commercial development along major arterials, provision of pedestrian connections from residential to retail areas, and development of a multi-use Town Center.

Policy 5.19.7 Encourage employers to develop trip reduction plans to promote alternative work schedules, ridesharing, telecommuting and work-at-home programs, employee education and preferential parking.

Policy 5.19.8 Conduct City staff in-service training, in conjunction with regional air quality agencies, on the latest policies, techniques, programs and technology for air quality planning.

Policy 5.19.10 Reduce particulate emissions from roads, parking lots, construction sites and agricultural lands to the maximum extent practical through dust suppression, street cleaning and other practices.

Policy 5.19.13 Continue comprehensive efforts to reduce energy consumption.

Policy 5.19.14 Offer incentives to home-based businesses, carpool networks and park-and-ride facilities.

Policy 5.19.15 Evaluate the desirability of developing a multi-modal, transit hub in the City.

Public Health and Safety Element

Policy 6.8.3 Create and integrate innovative local emissions reducing pilot programs into city plans for future government facilities and equipment.

Policy 6.8.4 Support the development and use of alternative fuel sources for transportation-related activities to reduce local government energy demand.

Policy 6.8.6 Cooperate with regional transit agencies in the continued development of diverse and efficiently operated transportation systems that generate the minimum feasible pollutants.

Policy 6.8.7 Support current incentive programs that recognize and reward developments using new and innovative emission reduction techniques such as innovative efficient window

glazing, wall insulation, and ventilation systems; efficient air conditioning, heating, and appliances; use of passive solar design, and solar heating systems; use of energy cogeneration and/or use of waste energy; and landscape techniques that reduce water consumption and provide passive solar benefits.

Policy 6.8.8 Develop transportation demand management programs and incentives to reduce home to work vehicle trips.

Policy 6.8.9 Reduce work trips in the City and peak period auto travel by enforcing the City's Transportation Demand Ordinance; supporting current staggered, flexible, and compressed work schedules in public agencies; working with private agencies to encourage work schedule flexibility programs for employers with more than 25 employees in a single location; educating City residents on the advantages of ride sharing and public transit; and encouraging the development of job-intensive uses within designated employment centers for local residents.

Policy 6.8.10 Reduce vehicle emissions by supporting the design and implementation of the Citywide system of bikeways and pedestrian trails as a non-polluting circulation alternative by requiring as part of the development review process the installation of planned bicycle routes, paths, and lanes where designated; and the construction of necessary bicycle parking and storage areas within convenient commercial, employment and recreation activity areas.

Policy 6.8.11 Reduce the number of vehicles driven to work by requiring as part of the development review process that preferential parking be included in parking lot designs to high occupancy vehicles, vanpools, and shuttle services, if applicable.

San Bernardino County Greenhouse Gas Reduction Plan

The County of San Bernardino adopted the *San Bernardino County Regional Greenhous Gas Reduction Plan* (County GHG Reduction Plan) in September 2021 (GHG Reduction Plan). The County GHG Reduction Plan provides a means of implementing state regulations, including AB 32, AB 1493, Executive Order S-3-05, SB 375, Executive Order B-30-15, SB 32, AB 398, and SB 97, at the County level. The County GHG Reduction Plan provides a target and comprehensive set of actions for GHG emission reductions for the year 2030 (i.e., an emissions reduction 40 percent below 2007 levels). This reduction would be consistent with the State's long-term goal to achieve statewide carbon neutrality (zero net emissions) by 2045.

4 SIGNIFICANCE CRITERIA AND METHODOLOGY

4.1 Thresholds and Significance Criteria

Addressing GHG emissions generation impacts requires an agency to determine what constitutes a significant impact. The amendments to the CEQA Guidelines specifically allow lead agencies to determine thresholds of significance that illustrate the extent of an impact and are a basis from which to apply mitigation measures. This means that each agency is left to determine whether a project's GHG emissions will have a "significant" impact on the environment. The guidelines direct that agencies are to use "careful judgment" and "make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" the project's GHG emissions.[13]

Based upon the criteria derived from Appendix G of the CEQA Guidelines, a project normally would have a significant effect on the environment if it would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, based on any applicable threshold of significance; or
- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

South Coast Air Quality Management District Thresholds

On December 5, 2008, the SCAQMD Governing Board adopted a 10,000 $MTCO_2e$ industrial threshold for projects where the SCAQMD is lead agency. During the GHG CEQA Significance Threshold Working Group Meeting #15, the SCAQMD noted that it was considering extending the industrial GHG significance threshold for use by all lead agencies. This working group was formed to assist SCAQMD's efforts to develop a GHG significance threshold and is composed of a wide variety of stakeholders including the State Office of Planning and Research, CARB, the Attorney General's Office, a variety of city and county planning departments in the SCAB, various utilities such as sanitation and power companies throughout the SCAB, industry groups, and environmental and professional organizations. However, the SCAQMD has not announced when staff is expecting to present GHG thresholds for land use projects where the SCAQMD is not the lead agency to the governing board. During Meeting #8, the Working Group defined industrial uses as production, manufacturing, and fabrication activities or storage and distribution (e.g., warehouse, transfer facility, etc.). Additionally, the SCAQMD GHG Significance Threshold Stakeholder Working Group has specified that a warehouse is considered to be an industrial project.[14] Furthermore, the Working Group indicated that the 10,000 $MTCO_2e$ per year threshold applies to both emissions from construction and operational phases plus indirect emissions (electricity, water use, etc.).

Although the screening threshold for industrial projects is 10,000 $MTCO_2e$ per year, this analysis conservatively utilizes 3,000 $MTCO_2e$ per year as the Project GHG threshold.

[13] 14 California Code of Regulations, Section 15064.4a

[14] South Coast Air Quality Management District, *Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #8*, 2009.

4.2 Methodology

The Project's construction and operational emissions were calculated using the California Emissions Estimator Model version 2022.1.1 (CalEEMod). Details of the modeling assumptions and emission factors are provided in Appendix A: Greenhouse Gas Emissions Data. For construction, CalEEMod calculates emissions from off-road equipment usage and on-road vehicle travel associated with haul, delivery, and construction worker trips. GHG emissions during construction were forecasted based on the proposed construction schedule and applying the mobile-source and fugitive dust emissions factors derived from CalEEMod. The Project's construction-related GHG emissions would be generated from off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. The Project's operational-related GHG emissions would be generated by vehicular traffic, area sources (e.g., landscaping maintenance and consumer products), electrical generation, natural gas consumption, water supply and wastewater treatment, and solid waste.

5 POTENTIAL IMPACTS AND MITIGATION

5.1 Greenhouse Gas Emissions

Threshold 5.1 Would the Project generate GHG emissions, either directly or indirectly, that could have a significant impact on the environment?

Short-Term Construction Greenhouse Gas Emissions

Project construction activities would generate direct CO_2, N_2O, and CH_4 emissions from construction equipment, transport of materials, and construction workers commuting to and from the Project site. Total GHG emissions generated during all construction phases were combined and are presented in Table 2: Construction-Related Greenhouse Gas Emissions

Table 2: Construction-Related Greenhouse Gas Emissions

Category	$MTCO_2e$
2023 Construction	259
2024 Construction	271
Total Construction Emissions	530
30-Year Amortized Construction	17.66

Source: CalEEMod version 2022.1. Refer to Appendix A for model outputs.

As indicated in Table 2, the Project would result in the generation of approximately 530 $MTCO_2e$ over the course of construction. Construction GHG emissions are typically summed and amortized over a 30-year period, then added to the operational emissions.[15] The amortized Project construction emissions would be 17.66 $MTCO_2e$ per year. Once construction is complete, construction-related GHG emissions would cease.

Long-Term Operational Greenhouse Gas Emissions

Operational or long-term emissions occur over the life of the Project. GHG emissions would result from direct emissions such as Project generated vehicular traffic, on-site combustion of natural gas, and operation of any landscaping equipment. Operational GHG emissions would also result from indirect sources, such as off-site generation of electrical power, the energy required to convey water to, and wastewater from the Project, the emissions associated with solid waste generated from the Project, and any fugitive refrigerants from air conditioning or refrigerators.

Total GHG emissions associated with the Project are summarized in Table 3: Project Greenhouse Gas Emissions. As shown in Table 3, the Project's unmitigated GHG emissions would be approximately 3,839.66 $MTCO_2e$ annually from both construction and operations of the proposed Project. The existing steel processing facility and a residential unit uses currently located on the Project site generates approximately 595 $MTCO_2e$ annually and will be removed and replaced by the Project. Existing emissions have been estimated based on the CalEEMod default emissions factors for building operations and

[15] The amortization period is 30 years per the South Coast Air Quality Management District (South Coast Air Quality Management District, *Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #13,* August 26, 2009).

estimated trip generation. Therefore, the net unmitigated emissions from the proposed Project would be approximately 3,244.66 $MTCO_2e$/year.

Table 3: Project Greenhouse Gas Emissions

Emissions Source	$MTCO_2e$ per Year	
	Unmitigated	**Mitigated**
Proposed Emissions		
Construction Amortized Over 30 Years	17.66	17.66
Area Source	<1	<1
Energy	551	551
Mobile	2,640	2,640
Off-Road – Forklifts[1]	228	0
Off-Road – Yard Trucks[1]	158	0
Waste	84	84
Water and Wastewater	161	161
Proposed Total	**3,839.66**	**3,453.66**
Existing Emissions		
Area Source	1	1
Energy	11	11
Mobile	22	22
Off-Road – Forklifts[2]	82	82
Off-Road – Yard Trucks[2]	475	475
Waste	1	1
Water and Wastewater	2	2
Existing Total	**595**	**595**
Net New Emissions	**3,244.66**	**2,858.66**
Threshold	*3,000*	*3,000*
Net Emissions Exceeds Threshold?	**Yes**	**No**

Notes:
1. Mitigation Measure HRA-1 (refer to the Project's Health Risk Assessment, Kimley-Horn 2023) requires operation of electric forklifts and yard trucks.
2. Three forklifts and two yard trucks have been assumed for the current steel processing facility on the proposed Project site.

Source: CalEEMod version 2022.1. Refer to Appendix A for model outputs.

The majority of Project-generated GHG emissions (67 percent unmitigated and 82 percent mitigated) are associated with non-construction related mobile sources. Emissions of motor vehicles are controlled by State and federal standards, and the Project has no control over these standards.

The Project would reduce GHG emissions through implementation of Mitigation Measure HRA-1 from the Project's Health Risk Assessment (Kimley-Horn, 2023). Mitigation Measure HRA-1 requires that off-road cargo handling equipment (e.g., forklifts and yard trucks) used during operational activities be electrically powered/zero emission. As shown in Table 3, implementation of Mitigation Measure HRA-1 would reduce the Project's net GHG emissions to 2,858.66 $MTCO_2e$ which is below the SCAQMD's 3,000 $MTCO_2e$ per year threshold. Therefore, the GHG emission of the proposed Project would be less than significant with implementation of mitigation measures.

Laws, Ordinances, and Regulations:

Laws, Ordinances, and Regulations (LOR) are existing requirements that are based on local, state, or federal regulations or laws that are frequently required independently of CEQA review. Typical LORs and requirements include compliance with the provisions of the Building Code, SCAQMD Rules, etc. The City may impose additional conditions during the approval process, as appropriate. Because LORs are neither Project specific nor a result of development of the Project, they are not considered to be either Project Design Features or Mitigation Measures.

LOR GHG-1 Require diesel powered construction equipment to turn off when not in use per Title 13 of the California Code of Regulations, Section 2449.

LOR GHG-2 Install water-efficient irrigation systems and devices, such as soil moisture-based irrigation controls and sensors for landscaping according to the City's Water Efficient Landscape requirements (Chapter 16.40.390 of the City's Municipal Code).

LOR GHG-3 The Project shall be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every three years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10(b)1) require all buildings to be designed to have a total area of at least 15 percent (after subtracting any skylights) "solar ready" zone on the roof top that will structurally accommodate later installation of rooftop solar panels. The installation of the solar panels is specific to the end use and will be determined at the time the specific projects are developed. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.

LOR GHG-4 The Project shall be designed in accordance with the applicable California Green Building Standards (CALGreen) Code (24 CCR, Part 11). The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. These requirements include, but are not limited to:

- Design buildings to be water-efficient. Install water-efficient fixtures in accordance with Section 4.303 (residential) and Section 5.303 (nonresidential) of the California Green Building Standards Code Part 11.

- Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 4.408.1 (residential) and Section 5.408.1 (nonresidential) of the California Green Building Standards Code Part 11.

- Provide storage areas for recyclables and green waste and adequate recycling containers located in readily accessible areas in accordance with Section 4.410 (residential) and Section 5.410 (nonresidential) of the California Green Building Standards Code Part 11.

- To facilitate future installation of electric vehicle supply equipment (EVSE), residential construction shall comply with Section 4.106.4 (residential electric vehicle charging) of the California Green Building Standards Code Part 11 and nonresidential construction shall comply with Section 5.106.5.3 (nonresidential electric vehicle charging) of the California Green Building Standards Code Part 11.

Mitigation Measures: Refer to Mitigation Measure HRA-1 in the Project's Health Risk Assessment.

Level of Significance: Less than significant with mitigation incorporated.

5.2 Greenhouse Gas Reduction Plan Compliance

Threshold 5.2 Would the Project conflict with an applicable plan, policy, or regulation of an agency adopted for the purpose of reducing GHG emissions?

Regional Transportation Plan/Sustainable Communities Strategy Consistency

On September 3, 2020, SCAG's Regional Council adopted Connect SoCal (*2020 - 2045 Regional Transportation Plan/Sustainable Communities Strategy* [2020 RTP/SCS]). The RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The RTP/SCS embodies a collective vision for the region's future and is developed with input from local governments, county transportation commissions, tribal governments, nonprofit organizations, businesses, and local stakeholders in the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. SCAG's RTP/SCS establishes GHG emissions goals for automobiles and light-duty trucks for 2020 and 2035 as well as an overall GHG target for the Project region consistent with both the target date of AB 32 and the post-2020 GHG reduction goals of Executive Orders 5-03-05 and B-30-15.

The RTP/SCS contains over 4,000 transportation projects, ranging from highway improvements, railroad grade separations, bicycle lanes, new transit hubs and replacement bridges. These future investments were included in county plans developed by the six county transportation commissions and seek to reduce traffic bottlenecks, improve the efficiency of the region's network, and expand mobility choices for everyone. The RTP/SCS is an important planning document for the region, allowing project sponsors to qualify for federal funding.

The plan accounts for operations and maintenance costs to ensure reliability, longevity, and cost effectiveness. The RTP/SCS is also supported by a combination of transportation and land use strategies that help the region achieve state GHG emissions reduction goals and Federal Clean Air Act (FCAA) requirements, preserve open space areas, improve public health and roadway safety, support our vital goods movement industry, and utilize resources more efficiently. GHG emissions resulting from

development-related mobile sources are the most potent source of emissions, and therefore Project comparison to the RTP/SCS is an appropriate indicator of whether the Project would inhibit the post-2020 GHG reduction goals promulgated by the state. The Project's consistency with the RTP/SCS goals is analyzed in detail in Table 4: Regional Transportation Plan/Sustainable Communities Strategy Consistency.

Table 4: Regional Transportation Plan/Sustainable Communities Strategy Consistency

SCAG Goals		Compliance	
GOAL 1:	Encourage regional economic prosperity and global competitiveness.	N/A:	This is not a Project-specific policy and is therefore not applicable. However, the Project is located on an occupied site that is surrounded by development. Redevelopment of the site would contribute to regional economic prosperity.
GOAL 2:	Improve mobility, accessibility, reliability, and travel safety for people and goods.	Consistent:	Although this Project is not a transportation improvement project, the Project is located near existing transit routes of I-215, I-10, and SR-210.
GOAL 3:	Enhance the preservation, security, and resilience of the regional transportation system.	N/A:	This is not a transportation improvement project and is therefore not applicable.
GOAL 4:	Increase person and goods movement and travel choices within the transportation system.	N/A:	This is not a transportation improvement project and is therefore not applicable.
GOAL 5:	Reduce greenhouse gas emissions and improve air quality.	Consistent:	The Project site is located within an urban area in proximity to existing transit routes, freeways, and residential development. Locating an employment center in close proximity to existing residential uses would potentially reduce trip lengths required for existing residents to travel to work and/or commercial services. Reduction of trip lengths would result in reduced GHG and air quality emissions. The Project would also reduce air quality and GHG emissions through mitigation measures such as providing electrifying cargo handling equipment (Mitigation Measure HRA-1).
GOAL 6:	Support healthy and equitable communities	Consistent:	As discussed in the Air Quality Assessment and the Health Risk Assessment, the Project would not exceed thresholds or result in health impacts. The Project does not violate any air quality standards or contribute substantially to an existing or projected air quality violation. The Project would not conflict with the surrounding community's ability to access healthy food or parks.
GOAL 7:	Adapt to a changing climate and support an integrated regional development pattern and transportation network.	N/A:	This is not a project-specific policy and is therefore not applicable.
GOAL 8:	Leverage new transportation technologies and data-driven solutions that result in more efficient travel.	N/A:	This is not a project-specific policy and is therefore not applicable. However, the Project is located in a developed area in proximity to existing truck routes and freeways. Location of the Project within a developed area would reduce trip lengths, which would result in more efficient travel.

Table 4: Regional Transportation Plan/Sustainable Communities Strategy Consistency			
SCAG Goals		**Compliance**	
GOAL 9:	Encourage development of diverse housing types in areas that are supported by multiple transportation options.	Consistent:	The Project involves development of a warehouse and does not include housing.
GOAL 10:	Promote conservation of natural and agricultural lands and restoration of habitats.	N/A:	This Project is located within an urban area and is not located on agricultural or habitat lands.
Source: Southern California Association of Governments, *Connect SoCal (2020 - 2045 Regional Transportation Plan/Sustainable Communities Strategy,* 2020.			

The goals stated in the RTP/SCS were used to determine consistency with the planning efforts previously stated. As shown in Table 4, the Project would be consistent with the stated goals of the RTP/SCS. Therefore, the Project would not result in any significant impacts or interfere with SCAG's ability to achieve the region's post-2020 mobile source GHG reduction targets.

California Air Resources Board Scoping Plan Consistency

As previously noted, the 2022 Scoping Plan sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279. The transportation, electricity, and industrial sectors are the largest GHG contributors in the State. The 2022 Scoping Plan plans to achieve the AB 1279 targets primarily through zero-emission transportation (e.g., electrifying cars, buses, trains, and trucks). Additional GHG reductions are achieved through decarbonizing the electricity and industrial sectors.

Statewide strategies to reduce GHG emissions in the latest 2022 Scoping Plan include implementing SB 100, which would achieve 100 percent clean electricity by 2045; achieving 100 percent zero emission vehicle sales in 2035 through Advanced Clean Cars II; and implementing the Advanced Clean Fleets regulation to deploy zero-electric vehicle buses and trucks. Additional transportation policies include the Off-Road Zero-Emission Targeted Manufacturer rule, Clean Off-Road Fleet Recognition Program, In-use Off-Road Diesel-Fueled Fleets Regulation, Off-Road Zero-Emission Targeted Manufacturer rule, Clean Off-Road Fleet Recognition Program, and Amendments to the In-use Off-Road Diesel-Fueled Fleets Regulation. The 2022 Scoping Plan would continue to implement SB 375. GHGs would be further reduced through the Cap-and-Trade Program carbon pricing and SB 905. SB 905 requires CARB to create the Carbon Capture, Removal, Utilization, and Storage Program to evaluate, demonstrate, and regulate carbon dioxide removal projects and technology.

As indicated in Table 3, approximately 92 percent of the Project's mitigated GHG emissions are from energy and mobile sources which would be further reduced by the 2022 Scoping Plan measures described above. It should be noted that the City has no control over vehicle emissions (approximately 82 percent of the Project's total emissions). However, these emissions would decline in the future due to Statewide measures discussed above, as well as cleaner technology and fleet turnover. Several of the State's plans and policies would contribute to a reduction in mobile source emissions from the Project. These include the following:

- **CARB's Advanced Clean Truck Regulation**: Adopted in June 2020, CARB's Advanced Clean Truck Regulation requires truck manufacturers to transition from diesel trucks and vans to electric zero-

emission trucks beginning in 2024. By 2045, every new truck sold in California is required to be zero-emission. The Advanced Clean Truck Regulation accelerates the transition of zero-emission medium-and heavy-duty vehicles from Class 2b to Class 8.

- **Executive Order N-79-20**: Executive Order N-79-20 establishes the goal for all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, will be zero-emission by 2035 and all medium and heavy-duty vehicles will be zero-emission by 2045. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new ZEVs "towards the target of 100 percent."

- **CARB's Mobile Source Strategy**: CARB's Mobile Source Strategy takes an integrated planning approach to identify the level of transition to cleaner mobile source technologies needed to achieve all of California's targets by increasing the adoption of ZEV buses and trucks.

- **CARB's Sustainable Freight Action Plan**: The Sustainable Freight Action Plan which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks. This Plan applies to all trucks accessing the Project site and may include existing trucks or new trucks that are part of the statewide goods movement sector.

- **CARB's Emissions Reduction Plan for Ports and Goods Movement**: CARB's Emissions Reduction Plan for Ports and Goods Movement identifies measures to improve goods movement efficiencies such as advanced combustion strategies, friction reduction, waste heat recovery, and electrification of accessories.

While these measures are not directly applicable to the Project, any commercial activity associated with goods movement would be required to comply with these measures as adopted. The Project would not obstruct or interfere with efforts to increase ZEVs or state efforts to improve system efficiency. As such, the Project would not interfere with their implementation.

San Bernardino County Regional Greenhouse Gas Reduction Plan

The Project's GHG emissions would not conflict with the County GHG Reduction Plan. The Project would be consistent with the applicable Highland General Plan policies that form the foundation for the City's GHG emissions reduction measures outlined in the County GHG Reduction Plan. In addition, the Project would be required to implement Mitigation Measure HRA-1 which would help reduce its GHG and air pollutant emissions and would also support the goals of the County GHG Reduction Plan. Therefore, the proposed Project would be consistent with the County GHG Reduction Plan.

The proposed Project would be consistent with the SCAG's RTP/SCS and the CARB Scoping Plan, and would be required to comply with existing regulations, including applicable measures from the City's General Plan. The Project would be directly affected by the outcomes (vehicle trips and energy consumption would be less carbon intensive due to statewide compliance with future low carbon fuel standard amendments and increasingly stringent Renewable Portfolio Standards). As such, the Project would not conflict with any other State-level regulations pertaining to GHGs.

Conclusion

As shown in Table 3, approximately 92 percent of the Project's GHG emissions are from energy and mobile sources which would be further reduced by the 2022 Scoping Plan goals described above (including achieve 100 percent clean electricity by 2045 [SB 100], achieving 100 percent zero emission vehicle sales in 2035 [Advanced Clean Cars II], and implementing the Advanced Clean Fleets regulation [ZEV buses and trucks]). It should be noted that the City has no control over vehicle emissions. However, these emissions would decline in the future due to Statewide measures discussed above (including the reduction in fuels' carbon content, CARB's Advanced Clean Car Program, CARB's Mobile Source Strategy, fuel efficiency standards, etc.), as well as cleaner technology and fleet turnover. It is also noted that the Project would not convert any Natural and Working Lands (NWL) and/or decrease the urban forest carbon stock in the State, which are areas of emphasis in the 2022 Scoping Plan. SCAG's 2020 RTP/SCS is also expected to help California reach its GHG reduction goals, with reductions in per capita transportation emissions of 19 percent by 2035.[16]

In conclusion, the Project does not conflict with the applicable plans that are discussed above and therefore, with respect to this particular threshold, the Project does not have a significant impact.

Mitigation Measures: Refer to Mitigation Measure HRA-1 as identified in the Project's Health Risk Assessment.

Level of Significance: Less than significant with mitigation incorporated.

5.3 Cumulative Setting, Impacts, and Mitigation Measures

Cumulative Setting

Climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and TACs, which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about 1 day), GHGs have much longer atmospheric lifetimes of 1 year to several thousand years that allow them to be dispersed around the globe.

Cumulative Impacts

It is generally the case that an individual project of this size and nature is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory.[17] The State CEQA Guidelines generally address GHG emissions as a cumulative impact because of the global nature of climate change.[18] As the California Supreme Court explained, "because of the global scale of climate change, any one project's contribution is unlikely to be significant by itself".[19] As such, GHG impacts are recognized as exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective. The additive effect of Project-related GHGs would not result in a reasonably foreseeable cumulatively considerable contribution to global climate change. In addition, the Project as well as other cumulative related projects would also be subject to all applicable regulatory requirements,

[16] California Air Resources Board, *SB 375 Regional Plan Climate Targets*, https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regional-plan-targets.
[17] California Air Pollution Control Officers Association, *CEQA and Climate Change White Paper*, 2008.
[18] Pub. Resources Code, § 21083, subd. (b)(2)
[19] *Cleveland National Forest Foundation v. San Diego Assn. of Governments* (2017) 3 Cal.5th 497, 512.

which would further reduce GHG emissions. As discussed above, the Project would not conflict with the RTP/SCS, or the CARB Scoping Plan and the Project-related net GHG emissions would not exceed the SCAQMD's 3,000 $MTCO_2e$ threshold of significance with implementation of Mitigation Measure HRA-1 (from the Project's Health Risk Assessment). Therefore, the Project's cumulative contribution of GHG emissions would be less than significant and the Project's cumulative GHG impacts would also be less than cumulatively considerable.

Mitigation Measures: Refer to Mitigation Measure HRA-1 as identified in the Project's Health Risk Assessment.

Level of Significance: Less than significant with mitigation incorporated.

6 REFERENCES

1. California Air Pollution Control Officers Association, *CEQA and Climate Change White Paper*, 2008.
2. California Air Resources Board, *2022 Scoping Plan for Achieving Carbon Neutrality*, November 2022.
3. California Air Resources Board, *California's 2017 Climate Change Scoping Plan,* 2017.
4. California Air Resources Board, *Current California GHG Emissions Inventory Data, 2000-2020 GHG inventory (2022 Edition)*, https://ww2.arb.ca.gov/ghg-inventory-data, accessed May 2023.
5. California Air Resources Board, *SB 375 Regional Plan Climate Targets*, https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regional-plan-targets.
6. City of Highland, Highland *General Plan*, 2012.
7. City of Highland, Highland Municipal Code, current through Ordinance 459, passed January 10, 2023.
8. Intergovernmental Panel on Climate Change, *Climate Change 2007: The Physical Science Basis*, 2007.
9. Intergovernmental Panel on Climate Change, *Climate Change 2013: The Physical Science Basis, Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, 2013.
10. National Research Council, *Advancing the Science of Climate Change*, 2010.
11. Kimley-Horn and Associates, *Meines Street and Palm Avenue Warehouse Health Risk Assessment*, May 2023.
12. Kimley-Horn and Associates, *Traffic Study for the Meines Street and Palm Avenue Warehouse Project*, March 2023.
13. San Bernardino County Council of Governments, *San Bernardino County Regional Greenhouse Gas Reduction Plan*, March 2021.
14. State of California, *Code of Regulations Section 15065.5a*, 2018.
15. Southern California Association of Governments, *2020 - 2045 Regional Transportation Plan/Sustainable Communities Strategy (Connect SoCal)*, 2020.
16. South Coast Air Quality Management District, *Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #13*, 2009.
17. U.S. EPA and NHTSA, Federal Register, Vol. 84, No. 188, *The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program*, September 27, 2019. Available at: https://www.govinfo.gov/content/pkg/FR-2019-09-27/pdf/2019-20672.pdf. Accessed May 2023.
18. U.S. EPA and NHTSA, *Greenhouse Gas Emissions and Fuel Efficiency Standards for Medium and Heavy-Duty Engines and Vehicles – Phase 2,* 2016. Available at: https://www.gpo.gov/fdsys/pkg/FR-2016-10-25/pdf/2016-21203.pdf. Accessed May 2023.
19. U.S. EPA, *Final Rule to Revise Existing National GHG Emissions Standards for Passenger Cars and Light Trucks Through Model Year 2026,* 2021.
20. U.S. EPA, *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2016*, 2018.
21. U.S. EPA, *Methane and Nitrous Oxide Emission from Natural Sources*, 2010.

22. U.S. EPA, *Midterm Evaluation of Light-Duty Vehicle Greenhouse Gas Emissions Standards for Model Years 2022-2025*. Available online at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/midterm-evaluation-light-duty-vehicle-greenhouse-gas, accessed November 2022.

U.S. EPA, *Overview of Greenhouse Gases*, 2018.

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Meines St & Palm Ave Warehouse-Proposed Detailed Report

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1.1. Basic Project Information

Data Field	Value
Project Name	Meines St & Palm Ave Warehouse-Proposed
Construction Start Date	10/1/2023
Operational Year	2024
Lead Agency	City of Highland
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	11.2
Location	34.10971222888604, -117.21056657432398
County	San Bernardino-South Coast
City	Highland
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5173
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

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

Unrefrigerated Warehouse-No Rail	277	1000sqft	6.36	276,917	64,146	—	—	—
Parking Lot	244	1000sqft	5.60	0.00	0.00	—	—	—
General Office Building	8.00	1000sqft	0.18	8,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.27	25.3	13.5	24.1	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,573	5,573	0.28	0.30	10.9	5,679
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.85	4.04	40.4	36.7	0.10	1.81	14.7	16.0	1.66	3.99	5.65	—	13,516	13,516	1.29	1.60	0.56	14,026
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.80	4.42	6.51	7.26	0.01	0.26	1.34	1.60	0.24	0.43	0.67	—	1,613	1,613	0.10	0.10	1.26	1,638
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.81	1.19	1.32	< 0.005	0.05	0.24	0.29	0.04	0.08	0.12	—	267	267	0.02	0.02	0.21	271

Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.27	25.3	13.5	24.1	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,573	5,573	0.28	0.30	10.9	5,679
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.85	4.04	40.4	36.7	0.10	1.81	14.7	16.0	1.66	3.99	5.65	—	13,516	13,516	1.29	1.60	0.56	14,026
2024	2.24	1.83	13.6	21.6	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,431	5,431	0.28	0.30	0.28	5,527
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	0.80	0.62	6.51	5.92	0.01	0.26	1.34	1.60	0.24	0.43	0.67	—	1,530	1,530	0.10	0.10	0.71	1,563
2024	0.73	4.42	4.56	7.26	0.01	0.19	0.53	0.72	0.17	0.13	0.30	—	1,613	1,613	0.08	0.08	1.26	1,638
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.15	0.11	1.19	1.08	< 0.005	0.05	0.24	0.29	0.04	0.08	0.12	—	253	253	0.02	0.02	0.12	259
2024	0.13	0.81	0.83	1.32	< 0.005	0.03	0.10	0.13	0.03	0.02	0.05	—	267	267	0.01	0.01	0.21	271

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.27	25.3	13.5	24.1	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,573	5,573	0.28	0.30	10.9	5,679
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.85	4.04	40.4	36.7	0.10	1.81	14.7	16.0	1.66	3.99	5.65	—	13,516	13,516	1.29	1.60	0.56	14,026
2024	2.24	1.83	13.6	21.6	0.03	0.52	1.95	2.47	0.48	0.47	0.95	—	5,431	5,431	0.28	0.30	0.28	5,527
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.80	0.62	6.51	5.92	0.01	0.26	1.34	1.60	0.24	0.43	0.67	—	1,530	1,530	0.10	0.10	0.71	1,563
2024	0.73	4.42	4.56	7.26	0.01	0.19	0.53	0.72	0.17	0.13	0.30	—	1,613	1,613	0.08	0.08	1.26	1,638
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.15	0.11	1.19	1.08	< 0.005	0.05	0.24	0.29	0.04	0.08	0.12	—	253	253	0.02	0.02	0.12	259
2024	0.13	0.81	0.83	1.32	< 0.005	0.03	0.10	0.13	0.03	0.02	0.05	—	267	267	0.01	0.01	0.21	271

2.4. Operations Emissions Compared Against Thresholds

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.84	8.12	16.0	21.6	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,238	19,508	28.7	2.32	49.1	20,966
Mit.	2.84	8.12	16.0	21.6	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,812	18,082	28.6	2.30	49.1	19,532
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	7%	< 0.5%	1%	—	7%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.76	8.04	16.7	19.2	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,016	19,286	28.7	2.32	1.29	20,698
Mit.	2.76	8.04	16.7	19.2	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,591	17,860	28.6	2.31	1.29	19,264
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	7%	< 0.5%	1%	—	7%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.75	8.03	16.9	19.7	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,050	19,320	28.7	2.33	21.2	20,752
Mit.	2.75	8.03	16.9	19.7	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,624	17,894	28.6	2.31	21.2	19,318
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	7%	< 0.5%	1%	—	7%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	1.47	3.08	3.59	0.03	0.06	0.55	0.61	0.06	0.12	0.17	44.7	3,154	3,199	4.76	0.39	3.51	3,436
Mit.	0.50	1.47	3.08	3.59	0.03	0.06	0.55	0.61	0.06	0.12	0.17	44.7	2,918	2,963	4.73	0.38	3.51	3,198
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	7%	< 0.5%	1%	—	7%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.67	1.54	14.5	20.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,491	15,491	1.10	1.99	49.1	16,159
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	3,317	3,317	0.30	0.02	—	3,330
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.84	8.12	16.0	21.6	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,238	19,508	28.7	2.32	49.1	20,966

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.60	1.47	15.2	18.0	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,269	15,269	1.10	1.99	1.27	15,892
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	3,317	3,317	0.30	0.02	—	3,330
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.76	8.04	16.7	19.2	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,016	19,286	28.7	2.32	1.29	20,698
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.59	1.46	15.4	18.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,303	15,303	1.10	1.99	21.2	15,946
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	3,317	3,317	0.30	0.02	—	3,330
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.75	8.03	16.9	19.7	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	19,050	19,320	28.7	2.33	21.2	20,752
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.27	2.81	3.36	0.03	0.04	0.55	0.59	0.04	0.12	0.15	—	2,534	2,534	0.18	0.33	3.51	2,640
Area	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.01	0.27	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	549	549	0.05	< 0.005	—	551
Water	—	—	—	—	—	—	—	—	—	—	—	20.8	71.3	92.1	2.14	0.05	—	161
Waste	—	—	—	—	—	—	—	—	—	—	—	23.9	0.00	23.9	2.39	0.00	—	83.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.50	1.47	3.08	3.59	0.03	0.06	0.55	0.61	0.06	0.12	0.17	44.7	3,154	3,199	4.76	0.39	3.51	3,436

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.67	1.54	14.5	20.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,491	15,491	1.10	1.99	49.1	16,159
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,891	1,891	0.17	< 0.005	—	1,897
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.84	8.12	16.0	21.6	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,812	18,082	28.6	2.30	49.1	19,532
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.60	1.47	15.2	18.0	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,269	15,269	1.10	1.99	1.27	15,892
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,891	1,891	0.17	< 0.005	—	1,897
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.76	8.04	16.7	19.2	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,591	17,860	28.6	2.31	1.29	19,264
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.59	1.46	15.4	18.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,303	15,303	1.10	1.99	21.2	15,946
Area	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,891	1,891	0.17	< 0.005	—	1,897
Water	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971

Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	2.75	8.03	16.9	19.7	0.15	0.32	3.02	3.34	0.31	0.65	0.96	270	17,624	17,894	28.6	2.31	21.2	19,318
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.27	2.81	3.36	0.03	0.04	0.55	0.59	0.04	0.12	0.15	—	2,534	2,534	0.18	0.33	3.51	2,640
Area	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.01	0.27	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	313	313	0.03	< 0.005	—	314
Water	—	—	—	—	—	—	—	—	—	—	—	20.8	71.3	92.1	2.14	0.05	—	161
Waste	—	—	—	—	—	—	—	—	—	—	—	23.9	0.00	23.9	2.39	0.00	—	83.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.50	1.47	3.08	3.59	0.03	0.06	0.55	0.61	0.06	0.12	0.17	44.7	2,918	2,963	4.73	0.38	3.51	3,198

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.39	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	11.9	11.9	—	1.81	1.81	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.12	0.97	< 0.005	0.05	—	0.05	0.05	—	0.05	—	141	141	0.01	< 0.005	—	141
Demolition	—	—	—	—	—	—	0.49	0.49	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.3	23.3	< 0.005	< 0.005	—	23.4
Demolition	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	202	202	0.01	0.01	0.02	204
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	1.34	0.20	13.0	6.99	0.06	0.12	2.56	2.69	0.12	0.70	0.82	—	9,889	9,889	1.14	1.57	0.53	10,385
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.42	8.42	< 0.005	< 0.005	0.02	8.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	0.54	0.29	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	406	406	0.05	0.06	0.37	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.41

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	67.3	67.3	0.01	0.01	0.06	70.7

3.2. Demolition (2023) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.39	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	11.9	11.9	—	1.81	1.81	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.12	0.97	< 0.005	0.05	—	0.05	0.05	—	0.05	—	141	141	0.01	< 0.005	—	141
Demolition	—	—	—	—	—	—	0.49	0.49	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.3	23.3	< 0.005	< 0.005	—	23.4
Demolition	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	202	202	0.01	0.01	0.02	204
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	1.34	0.20	13.0	6.99	0.06	0.12	2.56	2.69	0.12	0.70	0.82	—	9,889	9,889	1.14	1.57	0.53	10,385
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.42	8.42	< 0.005	< 0.005	0.02	8.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	0.54	0.29	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	406	406	0.05	0.06	0.37	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	67.3	67.3	0.01	0.01	0.06	70.7

3.3. Site Preparation (2023) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.70	3.95	39.7	35.5	0.05	1.81	—	1.81	1.66	—	1.66	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	2.18	1.94	< 0.005	0.10	—	0.10	0.09	—	0.09	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.42	0.42	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.35	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.11	1.22	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	236	236	0.01	0.01	0.03	238
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.03	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.17	2.17	< 0.005	< 0.005	< 0.005	2.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2023) - Mitigated

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

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

Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	2.18	1.94	< 0.005	0.10	—	0.10	0.09	—	0.09	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.42	0.42	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.35	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.11	1.22	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	236	236	0.01	0.01	0.03	238
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.03	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.17	2.17	< 0.005	< 0.005	< 0.005	2.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2023) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.43	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	2.04	1.72	< 0.005	0.09	—	0.09	0.08	—	0.08	—	362	362	0.01	< 0.005	—	363

Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.37	0.31	< 0.005	0.02	—	0.02	0.01	—	0.01	—	59.9	59.9	< 0.005	< 0.005	—	60.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	269	269	0.01	0.01	0.03	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.30	0.04	2.93	1.58	0.01	0.03	0.58	0.61	0.03	0.16	0.19	—	2,234	2,234	0.26	0.35	0.12	2,346
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.03	15.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.16	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	122	122	0.01	0.02	0.11	129
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.48	2.48	< 0.005	< 0.005	< 0.005	2.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	0.02	21.3

3.6. Grading (2023) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.43	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	2.04	1.72	< 0.005	0.09	—	0.09	0.08	—	0.08	—	362	362	0.01	< 0.005	—	363
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.37	0.31	< 0.005	0.02	—	0.02	0.01	—	0.01	—	59.9	59.9	< 0.005	< 0.005	—	60.1

Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	269	269	0.01	0.01	0.03	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.30	0.04	2.93	1.58	0.01	0.03	0.58	0.61	0.03	0.16	0.19	—	2,234	2,234	0.26	0.35	0.12	2,346
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.03	15.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.16	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	122	122	0.01	0.02	0.11	129
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.48	2.48	< 0.005	< 0.005	< 0.005	2.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	0.02	21.3

3.7. Building Construction (2023) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.50	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.1	75.1	< 0.005	< 0.005	—	75.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.4	12.4	< 0.005	< 0.005	—	12.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.61	0.73	8.27	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,600	1,600	0.08	0.06	0.19	1,620
Vendor	0.16	0.04	1.83	0.96	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,481	1,481	0.12	0.22	0.11	1,549
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.02	0.27	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	50.8	50.8	< 0.005	< 0.005	0.10	51.5
Vendor	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	46.3	46.3	< 0.005	0.01	0.06	48.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.41	8.41	< 0.005	< 0.005	0.02	8.53
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.67	7.67	< 0.005	< 0.005	0.01	8.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2023) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.50	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.1	75.1	< 0.005	< 0.005	—	75.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.4	12.4	< 0.005	< 0.005	—	12.5

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.61	0.73	8.27	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,600	1,600	0.08	0.06	0.19	1,620
Vendor	0.16	0.04	1.83	0.96	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,481	1,481	0.12	0.22	0.11	1,549
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.27	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	50.8	50.8	< 0.005	< 0.005	0.10	51.5
Vendor	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	46.3	46.3	< 0.005	0.01	0.06	48.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.41	8.41	< 0.005	< 0.005	0.02	8.53
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.67	7.67	< 0.005	< 0.005	0.01	8.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2024) - Unmitigated

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

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

Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.28	2.66	3.11	0.01	0.12	—	0.12	0.11	—	0.11	—	568	568	0.02	< 0.005	—	570
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.48	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.0	94.0	< 0.005	< 0.005	—	94.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.62	0.58	10.1	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,711	1,711	0.07	0.06	6.84	1,737
Vendor	0.16	0.04	1.68	0.90	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,464	1,464	0.11	0.22	4.08	1,536
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.59	0.68	7.60	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,568	1,568	0.07	0.06	0.18	1,588

Vendor	0.15	0.04	1.75	0.91	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,465	1,465	0.11	0.22	0.11	1,533
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.16	1.89	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	377	377	0.02	0.01	0.70	382
Vendor	0.04	0.01	0.42	0.22	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	347	347	0.03	0.05	0.42	363
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.34	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	62.4	62.4	< 0.005	< 0.005	0.12	63.2
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.4	57.4	< 0.005	0.01	0.07	60.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2024) - Mitigated

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

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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.28	2.66	3.11	0.01	0.12	—	0.12	0.11	—	0.11	—	568	568	0.02	< 0.005	—	570
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.48	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.0	94.0	< 0.005	< 0.005	—	94.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.68	0.62	0.58	10.1	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,711	1,711	0.07	0.06	6.84	1,737
Vendor	0.16	0.04	1.68	0.90	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,464	1,464	0.11	0.22	4.08	1,536
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.59	0.68	7.60	0.00	0.00	1.55	1.55	0.00	0.36	0.36	—	1,568	1,568	0.07	0.06	0.18	1,588
Vendor	0.15	0.04	1.75	0.91	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,465	1,465	0.11	0.22	0.11	1,533
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.16	1.89	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	377	377	0.02	0.01	0.70	382
Vendor	0.04	0.01	0.42	0.22	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	347	347	0.03	0.05	0.42	363
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.34	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	62.4	62.4	< 0.005	< 0.005	0.12	63.2

Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.4	57.4	< 0.005	0.01	0.07	60.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.16	1.48	< 0.005	0.06	—	0.06	0.05	—	0.05	—	224	224	0.01	< 0.005	—	224
Paving	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.0	37.0	< 0.005	< 0.005	—	37.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	216	216	0.01	0.01	0.86	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.7	29.7	< 0.005	< 0.005	0.06	30.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.92	4.92	< 0.005	< 0.005	0.01	4.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.16	1.48	< 0.005	0.06	—	0.06	0.05	—	0.05	—	224	224	0.01	< 0.005	—	224
Paving	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.0	37.0	< 0.005	< 0.005	—	37.2
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	216	216	0.01	0.01	0.86	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.7	29.7	< 0.005	< 0.005	0.06	30.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.92	4.92	< 0.005	< 0.005	0.01	4.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	25.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Architectural Coatings	—	3.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	—	3.34
Architectural Coatings	—	0.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.12	2.01	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	342	342	0.01	0.01	1.37	347
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	47.9	47.9	< 0.005	< 0.005	0.09	48.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.94	7.94	< 0.005	< 0.005	0.01	8.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	25.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Architectural Coatings	—	3.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	—	3.34
Architectural Coatings	—	0.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.12	2.01	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	342	342	0.01	0.01	1.37	347
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	47.9	47.9	< 0.005	< 0.005	0.09	48.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.94	7.94	< 0.005	< 0.005	0.01	8.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Unrefrige Warehouse-No Rail	1.34	0.31	13.7	7.08	0.11	0.19	1.98	2.17	0.18	0.47	0.65	—	12,649	12,649	0.99	1.91	36.8	13,279
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	1.33	1.23	0.82	13.3	0.03	0.01	1.04	1.05	0.01	0.18	0.19	—	2,842	2,842	0.10	0.08	12.2	2,880
Total	2.67	1.54	14.5	20.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,491	15,491	1.10	1.99	49.1	16,159
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.33	0.30	14.3	7.10	0.11	0.19	1.98	2.17	0.19	0.47	0.65	—	12,651	12,651	0.99	1.91	0.96	13,246
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	1.27	1.16	0.90	10.9	0.03	0.01	1.04	1.05	0.01	0.18	0.19	—	2,618	2,618	0.11	0.08	0.32	2,646
Total	2.60	1.47	15.2	18.0	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,269	15,269	1.10	1.99	1.27	15,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.24	0.06	2.64	1.29	0.02	0.04	0.36	0.40	0.03	0.09	0.12	—	2,094	2,094	0.16	0.32	2.63	2,195
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.23	0.21	0.17	2.07	< 0.005	< 0.005	0.19	0.19	< 0.005	0.03	0.04	—	439	439	0.02	0.01	0.87	445
Total	0.47	0.27	2.81	3.36	0.03	0.04	0.55	0.59	0.04	0.12	0.15	—	2,534	2,534	0.18	0.33	3.51	2,640

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.34	0.31	13.7	7.08	0.11	0.19	1.98	2.17	0.18	0.47	0.65	—	12,649	12,649	0.99	1.91	36.8	13,279
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	1.33	1.23	0.82	13.3	0.03	0.01	1.04	1.05	0.01	0.18	0.19	—	2,842	2,842	0.10	0.08	12.2	2,880
Total	2.67	1.54	14.5	20.4	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,491	15,491	1.10	1.99	49.1	16,159
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.33	0.30	14.3	7.10	0.11	0.19	1.98	2.17	0.19	0.47	0.65	—	12,651	12,651	0.99	1.91	0.96	13,246
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	1.27	1.16	0.90	10.9	0.03	0.01	1.04	1.05	0.01	0.18	0.19	—	2,618	2,618	0.11	0.08	0.32	2,646
Total	2.60	1.47	15.2	18.0	0.14	0.21	3.02	3.23	0.20	0.65	0.85	—	15,269	15,269	1.10	1.99	1.27	15,892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.24	0.06	2.64	1.29	0.02	0.04	0.36	0.40	0.03	0.09	0.12	—	2,094	2,094	0.16	0.32	2.63	2,195
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.23	0.21	0.17	2.07	< 0.005	< 0.005	0.19	0.19	< 0.005	0.03	0.04	—	439	439	0.02	0.01	0.87	445
Total	0.47	0.27	2.81	3.36	0.03	0.04	0.55	0.59	0.04	0.12	0.15	—	2,534	2,534	0.18	0.33	3.51	2,640

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.12	0.01	—	1,229
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	204	204	0.02	< 0.005	—	205
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,559	1,559	0.15	0.02	—	1,568
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.12	0.01	—	1,229
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	204	204	0.02	< 0.005	—	205
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,559	1,559	0.15	0.02	—	1,568
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	202	202	0.02	< 0.005	—	203
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	33.8	33.8	< 0.005	< 0.005	—	34.0
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	22.1	22.1	< 0.005	< 0.005	—	22.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	258	258	0.02	< 0.005	—	260

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Total	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Total	—	—	—	—	—	—	—	—	—	—	—	—	133	133	0.01	< 0.005	—	134
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	22.1	22.1	< 0.005	< 0.005	—	22.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	22.1	22.1	< 0.005	< 0.005	—	22.2

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	0.08	1.41	1.19	0.01	0.11	—	0.11	0.11	—	0.11	—	1,687	1,687	0.15	< 0.005	—	1,692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.5
Total	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,758	1,758	0.16	< 0.005	—	1,762
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	0.08	1.41	1.19	0.01	0.11	—	0.11	0.11	—	0.11	—	1,687	1,687	0.15	< 0.005	—	1,692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.5
Total	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,758	1,758	0.16	< 0.005	—	1,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	279	279	0.02	< 0.005	—	280
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Total	0.03	0.01	0.27	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	291	291	0.03	< 0.005	—	292

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	0.08	1.41	1.19	0.01	0.11	—	0.11	0.11	—	0.11	—	1,687	1,687	0.15	< 0.005	—	1,692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.5
Total	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,758	1,758	0.16	< 0.005	—	1,762
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	0.16	0.08	1.41	1.19	0.01	0.11	—	0.11	0.11	—	0.11	—	1,687	1,687	0.15	< 0.005	—	1,692
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.4	70.4	0.01	< 0.005	—	70.5
Total	0.16	0.08	1.47	1.24	0.01	0.11	—	0.11	0.11	—	0.11	—	1,758	1,758	0.16	< 0.005	—	1,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	279	279	0.02	< 0.005	—	280
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.6	11.6	< 0.005	< 0.005	—	11.7
Total	0.03	0.01	0.27	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	291	291	0.03	< 0.005	—	292

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.3.1. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	123	422	544	12.6	0.30	—	950

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.72	9.25	12.0	0.28	0.01	—	21.0
Total	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	123	422	544	12.6	0.30	—	950
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.72	9.25	12.0	0.28	0.01	—	21.0
Total	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	20.3	69.8	90.1	2.09	0.05	—	157
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.45	1.53	1.98	0.05	< 0.005	—	3.47
Total	—	—	—	—	—	—	—	—	—	—	—	20.8	71.3	92.1	2.14	0.05	—	161

4.4.1. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	123	422	544	12.6	0.30	—	950
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.72	9.25	12.0	0.28	0.01	—	21.0
Total	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	123	422	544	12.6	0.30	—	950
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.72	9.25	12.0	0.28	0.01	—	21.0
Total	—	—	—	—	—	—	—	—	—	—	—	125	431	556	12.9	0.31	—	971
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	20.3	69.8	90.1	2.09	0.05	—	157
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.45	1.53	1.98	0.05	< 0.005	—	3.47
Total	—	—	—	—	—	—	—	—	—	—	—	20.8	71.3	92.1	2.14	0.05	—	161

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	0.00	140	14.0	0.00	—	491
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.01	0.00	4.01	0.40	0.00	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	0.00	140	14.0	0.00	—	491
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.01	0.00	4.01	0.40	0.00	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	—	—	—	—	—	—	—	—	—	—	—	23.2	0.00	23.2	2.32	0.00	—	81.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.66	0.00	0.66	0.07	0.00	—	2.32
Total	—	—	—	—	—	—	—	—	—	—	—	23.9	0.00	23.9	2.39	0.00	—	83.6

4.5.1. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	0.00	140	14.0	0.00	—	491

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.01	0.00	4.01	0.40	0.00	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	0.00	140	14.0	0.00	—	491
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.01	0.00	4.01	0.40	0.00	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	505
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	23.2	0.00	23.2	2.32	0.00	—	81.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.66	0.00	0.66	0.07	0.00	—	2.32
Total	—	—	—	—	—	—	—	—	—	—	—	23.9	0.00	23.9	2.39	0.00	—	83.6

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

4.6.2. Mitigated

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

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

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2023	10/22/2023	5.00	15.0	—
Site Preparation	Site Preparation	10/23/2023	11/19/2023	5.00	20.0	—
Grading	Grading	11/20/2023	12/15/2023	5.00	20.0	—
Building Construction	Building Construction	12/16/2023	4/30/2024	5.00	97.0	—
Paving	Paving	5/1/2024	7/15/2024	5.00	54.0	—
Architectural Coating	Architectural Coating	7/16/2024	9/30/2024	5.00	55.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT

Demolition	Hauling	138	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	31.3	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	119	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	46.7	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.8	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	138	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	31.3	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	119	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	46.7	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.8	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	427,376	142,459	12,519

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	8,297	—
Site Preparation	—	—	30.0	0.00	—
Grading	—	5,000	75.0	0.00	—
Paving	0.00	0.00	0.00	0.00	5.60

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	5.60	100%
General Office Building	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	349	0.03	< 0.005
2024	0.00	349	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	131	131	131	47,815	4,349	4,349	4,349	1,587,458
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	356	356	356	129,940	3,845	3,845	3,845	1,403,520

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	131	131	131	47,815	4,349	4,349	4,349	1,587,458
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	356	356	356	129,940	3,845	3,845	3,845	1,403,520

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	427,376	142,459	12,519

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value

Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	1,278,997	349	0.0330	0.0040	5,264,380
Parking Lot	213,649	349	0.0330	0.0040	0.00
General Office Building	139,615	349	0.0330	0.0040	219,520

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	5,264,380
Parking Lot	0.00	349	0.0330	0.0040	0.00
General Office Building	139,615	349	0.0330	0.0040	219,520

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	64,037,056	1,030,129
Parking Lot	0.00	0.00
General Office Building	1,421,870	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	64,037,056	1,030,129
Parking Lot	0.00	0.00
General Office Building	1,421,870	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	260	—
Parking Lot	0.00	—
General Office Building	7.44	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	260	—
Parking Lot	0.00	—
General Office Building	7.44	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	4.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.46	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	54.7
AQ-DPM	45.4
Drinking Water	85.2
Lead Risk Housing	51.4
Pesticides	61.9
Toxic Releases	43.6
Traffic	54.3
Effect Indicators	—
CleanUp Sites	78.6
Groundwater	41.1
Haz Waste Facilities/Generators	84.5
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	61.5
Cardio-vascular	77.6
Low Birth Weights	92.5
Socioeconomic Factor Indicators	—
Education	65.8
Housing	35.3
Linguistic	39.8
Poverty	38.6

Unemployment	59.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	34.38983703
Employed	23.22597203
Median HI	32.7216733
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	56.16578981
Active commuting	17.15642243
Social	—
2-parent households	17.02810214
Voting	25.22776851
Neighborhood	—
Alcohol availability	50.14756833
Park access	22.89233928
Retail density	22.46888233
Supermarket access	23.17464391
Tree canopy	4.709354549
Housing	—
Homeownership	53.58655203

Housing habitability	53.77903247
Low-inc homeowner severe housing cost burden	25.38175286
Low-inc renter severe housing cost burden	49.2878224
Uncrowded housing	49.1979982
Health Outcomes	—
Insured adults	65.30219428
Arthritis	0.0
Asthma ER Admissions	25.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	6.8
Cognitively Disabled	21.0
Physically Disabled	14.3
Heart Attack ER Admissions	21.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0

No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	37.8
Elderly	60.7
English Speaking	38.4
Foreign-born	44.6
Outdoor Workers	60.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	66.9
Traffic Density	57.8
Traffic Access	23.0
Other Indices	—
Hardship	69.5
Other Decision Support	—
2016 Voting	34.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	84.0
Healthy Places Index Score for Project Location (b)	21.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Per project construction schedule
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip rates per traffic study Trip length for truck and passenger cars has been modified for warehouse Trip percentage for truck and passenger cars has been modified for warehouse
Construction: Dust From Material Movement	Per project site info 5,000 cubic yard for off-site improvement activity
Operations: Fleet Mix	Truck fleet mix under the warehouse land use Passenger car fleet mix under the general office building land use
Operations: Refrigerants	Warehouse is unrefrigerated and has no cold storage
Operations: Architectural Coatings	SCAQMD Rule 1113

Model Output: OFFROAD2021 (v1.0.4) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2024
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	otal_Activity_h	Total_Population	Horsepower_Hours_hhpy
San Bernardino (SC)	2024	Airport Ground Support - Cargo Tractor	Aggregate	175	Diesel	2.74035E-05	3.31582E-05	3.94611E-05	0.00041402	0.00028002	0.06775277	1.63064E-05	1.50019E-05	6.27186E-07	5.54402E-07	2203.778901	819.088802	1.207211714	117815.8305
San Bernardino (SC)	2024	Airport Ground Support - Cargo Tractor	Aggregate	300	Diesel	2.83534E-05	3.43076E-05	4.08289E-05	0.0002137	0.00032437	0.09897363	1.08417E-05	9.97434E-06	9.16547E-07	8.09873E-07	3219.292469	792.863323	1.207211714	172104.402

g/hph

	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2024	0.077019097	0.093193108	0.1109075	1.1636382	0.7870103	190.42297	0.045830084	0.042163677	0.001762741	0.001558177	6193844.215
2024	0.054551745	0.066007611	0.078554512	0.4111519	0.6240925	190.42476	0.020859334	0.019190587	0.001763432	0.001558191	6193902.447

	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2024	0.092978356	0.112503811	0.133888833	1.4047577	0.9500881	229.88084	0.055326614	0.050900485	0.002128002	0.001881049	7477281.294
2024	0.065855505	0.079685161	0.094831927	0.4963474	0.7534118	229.883	0.025181632	0.023167102	0.002128836	0.001881067	7477351.592

0.158833862	0.192188972	0.228720761	1.9011051	1.7034999	459.76384	0.080508246	0.074067587	0.004256837	0.003762116	14954632.89
0.065785421	0.079600359	0.094731006	0.7873951	0.7055514	190.42386	0.033344709	0.030677132	0.001763087	0.001558184	6193873.331

Yard Truck for Warehouse 1

HP	190	
Hours per Day	12	
Days per Year	365	
1 pound =	453.5924	grams

Emissions Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	MT/yr	PM10 tons/yr
Yard Truck Emissions	0.40	3.54	3.95	0.01	0.17	0.15	954.21	157.98	0.030

Based on aggregated emission rates obtained from CARB OFFROAD Version 1.0.4.
Number of yard trucks/hostlers per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

Model Output: OFFROAD2021 (v1.0.4) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2024
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	el Consumpti	otal_Activity_h	Total_Population	Horsepower_Hours_hhpy
San Bernardino (SC)	2024	Industrial - Forklifts	Aggregate	100	Diesel	0.003691871	0.004467164	0.00531629	0.0553541	0.04212664	8.050593	0.002409194	0.00221646	7.45E-05	6.59E-05	261859.8017	306065.8879	392.7312337	25228131.43
San Bernardino (SC)	2024	Industrial - Misc - Forklifts	Aggregate	100	Gasoline	0.026785073	0.02463691	0.02947534	2.5320484	0.13680202	32.03446	0.002233519	0.00168755	0.000309	0.000479	1366341	652174.7	362	45652229
San Bernardino (SC)	2024	Industrial - Misc - Forklifts	Aggregate	100	Nat Gas	0	0	0.00552478	2.6238452	0.26264186	58.41244	0.005194833	0	0	0	3248653.3	1365183.95	757.78	95562876.5

		g/hph										
		HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
	2024	0.04845709	0.0586331	0.069778	0.726542	0.552927	105.667	0.031621514	0.0290918	0.00098	0.00086	3437001
	2024	0.1942794	0.1786982	0.213793	18.36563	0.992262	232.355	0.016200322	0.0122402	0.00224	0.00347	9910441.9
	2024	0	0	0.019144	9.091696	0.910061	202.401	0.018000239	0	0	0	11256673

Forklifts for Warehouse	6	
HP	89	
Hours per Day	12	
Days per Year	365	
1 pound =	453.5924	grams

Emissions Source (lb/day)	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	metric tons/yr	PM10 tons/yr
Forklift Emissions	0.76	7.21	9.47	0.01	0.41	0.38	1,378	228	0.075

Based on emission rates obtained from CARB OFFROAD Version 1.0.4.
Number of forklifts per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

Meines St & Palm Ave Warehouse-Existing Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Meines St & Palm Ave Warehouse-Existing
Operational Year	2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	11.2
Location	34.10930844873174, -117.21037811952846
County	San Bernardino-South Coast
City	Highland
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5173
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Heavy Industry	1.68	1000sqft	0.04	1,684	0.00	—	—	—

Single Family Housing	1.00	Dwelling Unit	0.32	1,950	11,713	—	3.00	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.02	1.49	0.19	5.81	0.01	0.65	0.05	0.71	0.63	0.01	0.64	64.9	265	330	0.86	0.01	1.19	356
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.99	1.46	0.19	5.55	0.01	0.65	0.05	0.71	0.63	0.01	0.64	64.9	253	318	0.86	0.01	0.47	344
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.22	0.26	0.11	1.00	< 0.005	0.05	0.04	0.09	0.05	0.01	0.05	6.70	208	215	0.30	0.01	0.71	226
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.04	0.05	0.02	0.18	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	1.11	34.5	35.6	0.05	< 0.005	0.12	37.4

2.5. Operations Emissions by Sector, Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.08	0.78	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	173	173	0.01	0.01	0.74	176
Area	1.91	1.40	0.07	5.01	0.01	0.65	—	0.65	0.63	—	0.63	62.5	18.4	80.8	0.60	< 0.005	—	95.9
Energy	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.7	67.7	0.01	< 0.005	—	67.9
Water	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Waste	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Total	2.02	1.49	0.19	5.81	0.01	0.65	0.05	0.71	0.63	0.01	0.64	64.9	265	330	0.86	0.01	1.19	356
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.08	0.09	0.66	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	162	162	0.01	0.01	0.02	165
Area	1.89	1.38	0.07	4.88	0.01	0.65	—	0.65	0.63	—	0.63	62.5	17.9	80.4	0.60	< 0.005	—	95.5
Energy	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.7	67.7	0.01	< 0.005	—	67.9
Water	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Waste	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Total	1.99	1.46	0.19	5.55	0.01	0.65	0.05	0.71	0.63	0.01	0.64	64.9	253	318	0.86	0.01	0.47	344
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.08	0.56	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	133	133	0.01	0.01	0.26	136
Area	0.14	0.19	0.01	0.42	< 0.005	0.04	—	0.04	0.04	—	0.04	4.28	1.54	5.82	0.04	< 0.005	—	6.85
Energy	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.7	67.7	0.01	< 0.005	—	67.9
Water	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Waste	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Total	0.22	0.26	0.11	1.00	< 0.005	0.05	0.04	0.09	0.05	0.01	0.05	6.70	208	215	0.30	0.01	0.71	226

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.0	22.0	< 0.005	< 0.005	0.04	22.4
Area	0.03	0.03	< 0.005	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	0.71	0.25	0.96	0.01	< 0.005	—	1.13
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.2	11.2	< 0.005	< 0.005	—	11.2
Water	—	—	—	—	—	—	—	—	—	—	—	0.14	1.00	1.14	0.01	< 0.005	—	1.59
Waste	—	—	—	—	—	—	—	—	—	—	—	0.26	0.00	0.26	0.03	0.00	—	0.93
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07
Total	0.04	0.05	0.02	0.18	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	1.11	34.5	35.6	0.05	< 0.005	0.12	37.4

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.05	0.05	0.05	0.45	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	99.7	99.7	< 0.005	< 0.005	0.43	102
Single Family Housing	0.05	0.04	0.04	0.34	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	73.1	73.1	< 0.005	< 0.005	0.31	74.6
Total	0.10	0.09	0.08	0.78	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	173	173	0.01	0.01	0.74	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Heavy Industry	0.05	0.05	0.05	0.37	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.3	93.3	0.01	< 0.005	0.01	94.9
Single Family Housing	0.04	0.04	0.04	0.28	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	68.5	68.5	< 0.005	< 0.005	0.01	69.7
Total	0.09	0.08	0.09	0.66	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	162	162	0.01	0.01	0.02	165
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.01	0.01	0.01	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.02	11.0
Single Family Housing	0.01	0.01	0.01	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.02	11.4
Total	0.01	0.01	0.01	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.0	22.0	< 0.005	< 0.005	0.04	22.4

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4	< 0.005	< 0.005	—	23.5
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	11.1	11.1	< 0.005	< 0.005	—	11.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5	< 0.005	< 0.005	—	34.6

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	23.4	23.4	< 0.005	< 0.005	—	23.5
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	11.1	11.1	< 0.005	< 0.005	—	11.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	34.5	34.5	< 0.005	< 0.005	—	34.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	3.88	3.88	< 0.005	< 0.005	—	3.89
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1.84	1.84	< 0.005	< 0.005	—	1.84
Total	—	—	—	—	—	—	—	—	—	—	—	—	5.71	5.71	< 0.005	< 0.005	—	5.73

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.1	23.1	< 0.005	< 0.005	—	23.2
Single Family Housing	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.0	10.0	< 0.005	< 0.005	—	10.1
Total	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.2	33.2	< 0.005	< 0.005	—	33.3

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.1	23.1	< 0.005	< 0.005	—	23.2
Single Family Housing	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.0	10.0	< 0.005	< 0.005	—	10.1
Total	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.2	33.2	< 0.005	< 0.005	—	33.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.83	3.83	< 0.005	< 0.005	—	3.84
Single Family Housing	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.66	1.66	< 0.005	< 0.005	—	1.66
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.49	5.49	< 0.005	< 0.005	—	5.51

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.89	1.29	0.07	4.88	0.01	0.65	—	0.65	0.63	—	0.63	62.5	17.9	80.4	0.60	< 0.005	—	95.5
Consumer Products	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.45	0.45	< 0.005	< 0.005	—	0.45
Total	1.91	1.40	0.07	5.01	0.01	0.65	—	0.65	0.63	—	0.63	62.5	18.4	80.8	0.60	< 0.005	—	95.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.89	1.29	0.07	4.88	0.01	0.65	—	0.65	0.63	—	0.63	62.5	17.9	80.4	0.60	< 0.005	—	95.5
Consumer Products	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.89	1.38	0.07	4.88	0.01	0.65	—	0.65	0.63	—	0.63	62.5	17.9	80.4	0.60	< 0.005	—	95.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.02	0.02	< 0.005	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	0.71	0.20	0.91	0.01	< 0.005	—	1.08
Consumer Products	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.05	0.05	< 0.005	< 0.005	—	0.05
Total	0.03	0.03	< 0.005	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	0.71	0.25	0.96	0.01	< 0.005	—	1.13

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	0.75	3.86	4.61	0.08	< 0.005	—	7.08
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.08	2.19	2.27	0.01	< 0.005	—	2.54
Total	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	0.75	3.86	4.61	0.08	< 0.005	—	7.08
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.08	2.19	2.27	0.01	< 0.005	—	2.54
Total	—	—	—	—	—	—	—	—	—	—	—	0.83	6.06	6.88	0.09	< 0.005	—	9.62
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	0.12	0.64	0.76	0.01	< 0.005	—	1.17
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.01	0.36	0.38	< 0.005	< 0.005	—	0.42
Total	—	—	—	—	—	—	—	—	—	—	—	0.14	1.00	1.14	0.01	< 0.005	—	1.59

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	1.13	0.00	1.13	0.11	0.00	—	3.94
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.47	0.00	0.47	0.05	0.00	—	1.65
Total	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	1.13	0.00	1.13	0.11	0.00	—	3.94
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.47	0.00	0.47	0.05	0.00	—	1.65
Total	—	—	—	—	—	—	—	—	—	—	—	1.60	0.00	1.60	0.16	0.00	—	5.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	—	0.65
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.08	0.00	0.08	0.01	0.00	—	0.27
Total	—	—	—	—	—	—	—	—	—	—	—	0.26	0.00	0.26	0.03	0.00	—	0.93

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.44	0.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.45	0.45
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Heavy Industry	6.62	10.8	8.57	2,736	68.6	112	88.8	28,356
Single Family Housing	9.44	9.54	8.55	3,404	81.0	81.9	73.4	29,213

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	1
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	1
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
3948.75	1,316	2,526	842	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Heavy Industry	16,062	532	0.0330	0.0040	72,220
Single Family Housing	7,610	532	0.0330	0.0040	31,290

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	389,425	0.00
Single Family Housing	41,681	229,901

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	2.09	—
Single Family Housing	0.88	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Heavy Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	4.20	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.46	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	100
AQ-PM	54.7
AQ-DPM	45.4

Drinking Water	85.2
Lead Risk Housing	51.4
Pesticides	61.9
Toxic Releases	43.6
Traffic	54.3
Effect Indicators	—
CleanUp Sites	78.6
Groundwater	41.1
Haz Waste Facilities/Generators	84.5
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	61.5
Cardio-vascular	77.6
Low Birth Weights	92.5
Socioeconomic Factor Indicators	—
Education	65.8
Housing	35.3
Linguistic	39.8
Poverty	38.6
Unemployment	59.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	34.38983703

Employed	23.22597203
Median HI	32.7216733
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	—
Auto Access	56.16578981
Active commuting	17.15642243
Social	—
2-parent households	17.02810214
Voting	25.22776851
Neighborhood	—
Alcohol availability	50.14756833
Park access	22.89233928
Retail density	22.46888233
Supermarket access	23.17464391
Tree canopy	4.709354549
Housing	—
Homeownership	53.58655203
Housing habitability	53.77903247
Low-inc homeowner severe housing cost burden	25.38175286
Low-inc renter severe housing cost burden	49.2878224
Uncrowded housing	49.1979982
Health Outcomes	—
Insured adults	65.30219428
Arthritis	0.0

Asthma ER Admissions	25.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	6.8
Cognitively Disabled	21.0
Physically Disabled	14.3
Heart Attack ER Admissions	21.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	37.8
Elderly	60.7
English Speaking	38.4

Foreign-born	44.6
Outdoor Workers	60.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	66.9
Traffic Density	57.8
Traffic Access	23.0
Other Indices	—
Hardship	69.5
Other Decision Support	—
2016 Voting	34.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	84.0
Healthy Places Index Score for Project Location (b)	21.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Hearths	existing residence has 1 wood burning stove
Land Use	The existing land uses include steel processing facility and single-family residential land uses

Model Output: OFFROAD2021 (v1.0.4) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2024
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	el Consumpti	otal_Activity_h	Total_Population	Horsepower_Hours_hhpy
San Bernardino (SC)	2024	Industrial - Forklifts	Aggregate	100	Diesel	0.003691871	0.004467164	0.00531629	0.0553541	0.04212664	8.050593	0.002409194	0.00221646	7.45E-05	6.59E-05	261859.8017	306065.8879	392.7312337	25228131.43
San Bernardino (SC)	2024	Industrial - Misc - Forklifts	Aggregate	100	Gasoline	0.026785073	0.02463691	0.02947534	2.5320484	0.13680202	32.03446	0.002233519	0.00168755	0.000309	0.000479	1366341	652174.7	362	45652229
San Bernardino (SC)	2024	Industrial - Misc - Forklifts	Aggregate	100	Nat Gas	0	0	0.00552478	2.6238452	0.26264186	58.41244	0.005194833	0	0	0	3248653.3	1365183.95	757.78	95562876.5

		g/hph									
		HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
	2024	0.04845709	0.0586331	0.069778	0.726542	0.552927	105.667	0.031621514	0.0290918	0.00098	0.00086	3437001
	2024	0.1942794	0.1786982	0.213793	18.36563	0.992262	232.355	0.016200322	0.0122402	0.00224	0.00347	9910441.9
	2024	0	0	0.019144	9.091696	0.910061	202.401	0.018000239	0	0	0	11256673

Forklifts for Warehouse	2	
HP	89	
Hours per Day	12	
Days per Year	365	
1 pound =	453.5924	grams

Emissions Source (lb/day)	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	metric tons/yr	PM10 tons/yr
Forklift Emissions	0.28	2.60	3.42	0.00	0.15	0.14	498	82	0.027

Based on emission rates obtained from CARB OFFROAD Version 1.0.4.
Number of forklifts per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

Model Output: OFFROAD2021 (v1.0.4) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2024
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	otal_Activity_h	Total_Population	Horsepower_Hours_hhpy
San Bernardino (SC)	2024	Airport Ground Support - Cargo Tractor	Aggregate	175	Diesel	2.74035E-05	3.31582E-05	3.94611E-05	0.00041402	0.00028002	0.06775277	1.63064E-05	1.50019E-05	6.27186E-07	5.54402E-07	2203.778901	819.088802	1.207211714	117815.8305
San Bernardino (SC)	2024	Airport Ground Support - Cargo Tractor	Aggregate	300	Diesel	2.83534E-05	3.43076E-05	4.08289E-05	0.0002137	0.00032437	0.09897363	1.08417E-05	9.97434E-06	9.16547E-07	8.09873E-07	3219.292469	792.863323	1.207211714	172104.402

g/hph

	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2024	0.077019097	0.093193108	0.1109075	1.1636382	0.7870103	190.42297	0.045830084	0.042163677	0.001762741	0.001558177	6193844.215
2024	0.054551745	0.066007611	0.078554512	0.4111519	0.6240925	190.42476	0.020859334	0.019190587	0.001763432	0.001558191	6193902.447

	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2024	0.092978356	0.112503811	0.133888833	1.4047577	0.9500881	229.88084	0.055326614	0.050900485	0.002128002	0.001881049	7477281.294
2024	0.065855505	0.079685161	0.094831927	0.4963474	0.7534118	229.883	0.025181632	0.023167102	0.002128836	0.001881067	7477351.592

	0.158833862	0.192188972	0.228720761	1.9011051	1.7034999	459.76384	0.080508246	0.074067587	0.004256837	0.003762116	14954632.89
	0.065785421	0.079600359	0.094731006	0.7873951	0.7055514	190.42386	0.033344709	0.030677132	0.001763087	0.001558184	6193873.331

Yard Truck for Warehouse 3

HP	190
Hours per Day	12
Days per Year	365
1 pound =	453.5924 grams

Emissions Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	MT/yr	PM10 tons/yr
Yard Truck Emissions	1.20	10.64	11.87	0.03	0.50	0.46	2871.52	475.41	0.092

Based on aggregated emission rates obtained from CARB OFFROAD Version 1.0.4.
Number of yard trucks/hostlers per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

Appendix G

Phase I Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT

27124-27280 MEINES STREET
HIGHLAND, CALIFORNIA

On Behalf Of:
Lovett Industrial, LLC

Prepared By:
Ramboll US Consulting, Inc.
Los Angeles, California

Date Issued:
May 2022

Project Number:
1690026564

RAMBOLL

ENVIRONMENT
& HEALTH

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SIGNATURE AND ENVIRONMENTAL PROFESSIONAL STATEMENT

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Amy Manion, PG, CHG
Senior Managing Consultant

John M. Pekala, PG
Principal

Ramboll US Consulting, Inc.
350 S. Grand Avenue, Suite 2800
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Figure 2: Site Layout

Figure 3: Tax Parcels

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Appendix A: Site Photographs

Appendix B: Environmental Database Report

Appendix C: Historical Research Documentation

C.1: Topographic Maps

C.2: Aerial Photographs

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1. SUMMARY OF CONCLUSIONS

Ramboll US Consulting, Inc. (Ramboll) was retained by Lovett Industrial, LLC to perform a Phase I Environmental Site Assessment (ESA) of the site located northwest of the intersection of Palm Avenue and Meines Street in Highland, California (herein referred to as the "site"; see Figures 1, 2, and 3). Ramboll's assessment was conducted in connection with a potential purchase of the site.

The objective of the Phase I ESA, which was conducted in conformance with the scope and limitations of ASTM International's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* E1527-21[1] (the "ASTM Standard"), was to identify Recognized Environmental Conditions (RECs), as defined in the ASTM Standard (see Section 8).

The scope of work for the Phase I ESA was expanded to include an evaluation of certain additional considerations that are not included within the ASTM Standard,[2] as noted in Section 2.1 of this report.

1.1 Site Summary

The site is approximately 13.7-acres and located at 27124-27280 Meines Street in Highland, California. The site is located in San Bernardino County approximately 66 miles east of downtown Los Angeles. The site is composed of 15 tax parcels owned by eight different entities and occupied by five different parties.

- Ten parcels (1192-601-05, 1192-601-43, 1192-601-09, 1192-621-05, 1192-621-06, 1192-621-07, 1192-621-08, 1192-621-21, 1192-621-22, and 1192-621-23) are occupied by KCB Towers Inc. and are developed with an approximately 22,500-square-foot warehouse, which is located in the eastern portion of the lot. The warehouse building includes a two-story office space in the southeast corner and a single-story warehouse space used for steel cutting and welding in the remainder of the building. Other smaller structures on the site include a second smaller approximately 5,150-square-foot warehouse on the western portion of the site used for the owner's personal storage, two small residential buildings on the western portion of the site, one metal container used as a contained fuel station on the western portion of the site, a vehicle and machine maintenance shop on the northern portion of the site, and approximately 10 metal storage containers throughout the site.
- Two parcels (1192-621-02 and 1192-621-20) are occupied by Mazzulla Offroad and are developed with an approximately 3,200-square-foot building, which is located in the southwest portion of the lot. The single-story building includes a manufacturing space with metal cutting and welding machinery and a small office space. Other smaller structures on the site include metal containers, owned by Mazzulla Offroad and third parties, that are used for miscellaneous storage, including scrap metal, furniture, construction supplies, and truck parts.
- One parcel (1192-621-03) is owned by Robert Forshay and is not currently occupied. Two residential buildings, approximately 520 square-feet and 220 square-feet, are located on the southeast portion of the lot. The buildings were used as personal residences from approximately the 1930s to the 1980s and have been vacant since the 1980s.
- One parcel (1192-621-04) is occupied by Ransom (Randy) and Sandy Tirb and is developed with an approximately 1,568-square-foot residential building, which is located in the southern portion of the lot. The single-story building is used as a personal residence for the parcel owners. Other

[1] While this report was prepared to meet the 2021 ASTM Standard, it also meets the requirements of the 2013 ASTM Standard.

[2] The ASTM Standard refers to these areas as "non-scope considerations."

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smaller structures on the site include a personal swimming pool and four small structures on the northern portion of the lot that are used as personal storage.

- One parcel (1192-621-09) is occupied by the Filipino Association of San Bernardino County and is developed with an approximately 4,275-square-foot building in the center of the lot. The building is used as an event space and gathering center for the association.

The site was undeveloped land until residences were constructed on the site from approximately 1930 to 1960. In the 1960s, some portions of the site began to be developed for industrial use while other portions of the site remained residential. Notable site occupants include the Bogh family, who started their steel cutting and welding business around 1982 and the Mazzulla family, who started their grading operations on the site around 1983.

1.2 Phase I ESA Conclusions

1.2.1 Recognized Environmental Conditions

Ramboll performed a Phase I ESA of the site in conformance with the scope and limitations of the ASTM Standard. Any exceptions to, or deletions from, this practice are described in Section 7.2 of this report. This assessment has identified no RECs in connection with the site.

1.2.2 Other Findings

Although not considered to be RECs or CRECs, Ramboll identified the following other findings, which represents a contingent risk not clearly defined by the ASTM Standard:

- **Past Light Industrial Operations at the Site.** Metalworking operations by KCB Towers Inc. began at the site around 1982 and has continued to the present. There is no readily available information as to the specific use of chemicals in the past, but there is no indication that these operations were chemically intensive or involved the use of significant amounts of petroleum products or hazardous substances. Because of the nature of the operations, it is possible that the use of the site for metalworking operations involved the use of chlorinated solvents. The site is not listed on any environmental databases indicative of a release or of hazardous waste generation. Also, Ramboll notes that these operations were conducted during a time period when robust environmental regulations were in the process of being put in place regarding chemical handling and waste management. While it is possible that small-scale spills or releases of chemicals or petroleum products may have occurred in the past, Ramboll identified no specific contamination concerns (e.g., obvious evidence of contamination, former underground storage tanks, listings indicating past chlorinated solvent use in significant quantities, known releases), and thus this matter is not considered a REC.
- **Presence of Floor Drains and Below-Grade Grease Pits.** Two areas with floor drains and below-grade grease pits are located on the KCB Towers lot, one adjacent to the vehicle and equipment maintenance area on the northern portion of the lot and one adjacent to the refueling station on the southwest corner of the lot. The drains are used to collect, and the grease pits are used to contain, any fluid containing petroleum products or chemicals from each area. The pits (1,000-gallon capacity) are constructed of concrete and are pumped out for cleaning on a routine basis by a third-party. Ramboll could not evaluate the integrity of the pits at the time of the site visit and cannot rule out the possibility of leakage from the pits and contamination to the subsurface. Site representatives indicated that no breaches in the pit have been discovered during the cleanings, which include a visual inspection, and no spills or leaks have occurred. Documentation of the cleanings and inspections was not available. Because Ramboll's review did not identify documentation of a release, a suspected release, or a potentially material threat of a

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release of a hazardous substance or petroleum product related to this matter, it is not considered a REC.

- **Staining on Unpaved Ground.** Ramboll observed multiple areas of darkened staining from unknown substances on unpaved surface on parcel 1192-621-20 owned by Mark Mazzulla, in areas associated with vehicle storage, minor auto repair operations, and around drums of hazardous substances. Portions of the stains were covered, obscuring visibility, but the largest staining was approximately three feet by five feet in area. While the nature of the stain was not clear, the use of the lot is related to vehicle storage and vehicle maintenance has occurred on the lot. However, Ramboll considers this minor staining matter unlikely to be the subject of additional investigation if brought to the attention of a regulatory authority and considers this matter to represent an Other Finding.

Additional findings of Ramboll's Phase I ESA that are not considered RECs or CRECs, *de minimis* conditions, are discussed in Section 7 of this report.

1.3 Additional Considerations

Ramboll conducted a screening-level review of certain additional considerations that are not considered part of the ASTM Standard, as discussed in Section 5.3. Ramboll did not identify any concerns relating to wetlands, flood plains, and radon. Ramboll's key finding from its review of additional considerations includes the following:

- **Possible Presence of Asbestos-Containing Material (ACM) in Site Buildings.** A formal asbestos survey has not been conducted within site buildings. The use of asbestos was phased out of many building materials in the 1980s. Given the date of construction of the buildings at the site, it is possible that ACMs are present in building materials. The building materials that were observed by Ramboll did not appear to be extensively damaged, broken or deteriorated, except for the two residential buildings on parcel 1192-621-03.
- **Possible Presence of Lead-Based Paint.** Lead was an ingredient in certain paint pigment prior to and through the 1940s. While other pigments were used in the 1950s, the use of lead in paint continued until the 1970s. In 1978, the Consumer Products Safety Commission banned paint and other surfacing coating materials that are "lead-containing paint." Based on the construction date of some of the site buildings (i.e., the two residential buildings on parcel 1192-621-03 in the 1930s, one residential building on parcel 1192-621-05 in the 1950s, and one building on parcel 1192-621-09 in the 1960s), it is possible that lead-based paint was used historically on the buildings. Site personnel knew of no lead-based paint, but Ramboll observed damaged and degraded paint in the two residential buildings on parcel 1192-621-03.

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2. INTRODUCTION

2.1 Scope of Work

Ramboll conducted a Phase I ESA of the site, which relied upon the sources of information noted below. The date on which the information was obtained/reviewed is also indicated in the table below.

Table 1: Sources of Information Relied on for the Phase I ESA

Resource	Description	Date
Site Reconnaissance		
Site visit	Ramboll representative: Kelly Chen (photographs from the site visit are provided in Appendix A)	May 2, 2022 and May 16, 2022
Interviews		
Site Representatives[1] (year first associated with the site)	Chris Mazzulla, Manager of Mazzulla Offroad (1999) Greg Bogh, Manager of KCB Towers Inc. (1989) Tyler Plata, Industrial Real Estate Associate of Lee & Associates (2019)	May 2, 2022 and May 16, 2022
Site Owner Representative	Randy Tirb, site owner (parcel 1192-621-04) since 2001	May 2, 2022
Records Review		
Environmental Database Search[2]	Environmental Data Resources, Inc. (EDR) database report (Appendix B)	April 28, 2022
Federal and State Governmental Online Resources	USEPA Envirofacts and Enforcement and Compliance History Online (ECHO) databases California State Water Resources Control Board (SWRCB) GeoTracker database Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's EnviroStor (EnviroStor) database California Geologic Energy Management Division (CalGEM) website U.S. Air Force Civil Engineering Center Administrative Records website	April 28, 2022
Local Agency Records	San Bernardino County Fire Department, City of Highland Fire Department, and City of Highland Building Department.	May 6 and 9, 2022
Historical Sources	Aerial photographs, topographic maps, city directory listings, Sanborn maps (as available), obtained from EDR (Appendix C).	April 28, 2022

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Table 1: Sources of Information Relied on for the Phase I ESA

Resource	Description	Date
Physical Setting Sources	Current USGS 7.5-minute topographic map for the site and surrounding area. Geologic, hydrogeologic, and hydrologic information provided in the EDR report.	April 28, 2022
User-provided Information		
User-provided Information	Information provided by the user of this assessment, including responses to a User Questionnaire (Appendix D) consistent with Appendix X3 of the ASTM Standard and other information identified in Section 10.8 and 10.9 of the ASTM Standard.	May 18, 2022

Notes:

[1] - The site representatives interviewed by Ramboll were identified by the owners as having good knowledge of the uses, physical characteristics, and operations of the site (i.e., "key site manager" as defined by the ASTM Standard).

[2] - The radius searched for each database, as well as the databases themselves, were selected in accordance with the ASTM Standard.

This Phase I ESA was conducted in accordance with the methodology specified in the ASTM Standard, as agreed upon by Ramboll and its client in the proposal for this assignment.

The scope of work for this assignment was expanded to include an evaluation of certain additional considerations that are not included in the ASTM Standard, which included a screening-level review of wetlands, flood plains, radon, asbestos, and lead-based paint. The review of additional considerations was conducted based on available information and documentation; no samples of any media were collected as part of this assignment unless explicitly stated otherwise. Any other areas referred to as non-scope considerations by the ASTM Standard not listed above were outside the scope of this assessment.[3]

2.2 Significant Assumptions

In conducting this review, Ramboll made no significant assumptions, except for the following:

- Site-specific field measurements or other detailed hydrogeological information for the site were not publicly available or reasonably ascertainable. In the absence of such data, Ramboll has assumed that the flow direction of shallow groundwater beneath the site and in the local vicinity generally mimics surface topography and is affected by nearby surface water bodies. Therefore, in evaluating potential on-site impacts from off-site sources, those off-site facilities not located adjacent to or upgradient of the site are not considered to represent a significant contamination concern to the site. This interpretation is based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within the unsaturated soil for a

[3] The ASTM Standard considers per-/polyfluoroalkyl substances (PFAS) and other emerging contaminants as non-scope considerations; however, for the purposes of this assessment, Ramboll considered PFAS within the context of the Phase I ESA.

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significant distance, although a hazardous material can migrate in the groundwater in a generally downgradient direction.

2.3 Reliance and General Limitations

This report has been prepared for the exclusive use of Lovett Industrial, LLC and may not be relied upon by any other person or entity without Ramboll's prior express written permission. Reliance on Ramboll's report may be granted through the issuance of a separate reliance letter. If granted, and unless otherwise specified in writing, Ramboll's total aggregate exposure and liability in connection with the Report to Lovett Industrial, LLC and any third-party to which reliance has been issued shall not exceed the limits of liability established in the contract between Ramboll and its client for this assignment.

This report is considered current only for a period of 180 days from the site inspection (or the earliest date identified in the table above). The conclusions presented in this report represent Ramboll's professional judgment based upon the information available and conditions existing as of the date of this report. In performing its assignment, Ramboll must rely upon publicly available information, information provided by the client, and information provided by third parties. Accordingly, the conclusions in this report are valid only to the extent that the information provided to Ramboll was accurate and complete. This review is not intended as legal advice, nor is it an exhaustive review of site conditions. Ramboll makes no representations or warranties, expressed or implied, about the conditions of the site.

Ramboll's scope of work for this assignment did not include collecting samples of any environmental media. As such, this review cannot rule out the existence of latent conditions including contamination not identified and defined by the data and information available for Ramboll's review; however, this report is intended, consistent with normal standards of practice and care, to assist the client in identifying the risks of such latent conditions.

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3. SITE DESCRIPTION

3.1 Site Setting

The site is an approximately 13.7-acre site located at 27124-27280 Meines Street in Highland, California. The site is in San Bernardino County and is located approximately 66 miles east of downtown Los Angeles (Figure 1).

The site is composed of 15 tax parcels owned by eight different entities and occupied by five different parties (see Figures 2 and 3):

- Ten parcels (1192-601-05, 1192-601-43, 1192-601-09, 1192-621-05, 1192-621-06, 1192-621-07, 1192-621-08, 1192-621-21, 1192-621-22, and 1192-621-23) are occupied by KCB Towers Inc. and are developed with an approximately 22,500-square-foot warehouse, which is located in the eastern portion of the lot. The warehouse building includes a two-story office space in the southeast corner and a single-story warehouse space used for steel cutting and welding in the remainder of the building. Other smaller structures on the site include a second smaller approximately 5,150-square-foot warehouse on the western portion of the site used for the owner's personal storage, two small residential buildings on the western portion of the site, one metal container used as a contained fuel station on the western portion of the site, a vehicle and machine maintenance shop on the northern portion of the site, and approximately 10 metal storage containers throughout the site.
- Two parcels (1192-621-02 and 1192-621-20) are occupied by Mazzulla Offroad and are developed with an approximately 3,200-square-foot building, which is located in the southwest portion of the lot. The single-story building includes a manufacturing space with metal cutting and welding machinery and a small office space. Other smaller structures on the site include metal containers, owned by Mazzulla Offroad and third parties, that are used for miscellaneous storage, including scrap metal, furniture, construction supplies, and truck parts.
- One parcel (1192-621-03) is owned by Robert Forshay and is not currently occupied. Two residential buildings, approximately 520 square-feet and 220 square-feet, are located on the southeast portion of the lot. The buildings were used as personal residences from approximately the 1930s to the 1980s and have been vacant since the 1980s.
- One parcel (1192-621-04) is occupied by Ransom (Randy) and Sandy Tirb and is developed with an approximately 1,568-square-foot residential building, which is located in the southern portion of the lot. The single-story building is used as a personal residence for the parcel owners. Other smaller structures on the site include a personal swimming pool and four small structures on the northern portion of the lot that are used as personal storage.
- One parcel (1192-621-09) is occupied by the Filipino Association of San Bernardino County and is developed with an approximately 4,275-square-foot building in the center of the lot. The building is used as an event space and gathering center for the association.

There are multiple site access points along Meines Street at the southern site boundary and one site access at the northeast corner of the site along Palm Avenue.

The following table provides an overview of physical setting and utility information for the site.

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Table 2: Physical Setting Information

Conditions	Description
Site Information	
Ownership	Bogh Family Trust (1192-601-05, 1192-601-43, 1192-621-21, 1192-621-22, and 1192-621-23), Lynn Bogh (1192-621-05), KCB Towers Inc. (1192-601-09, 1192-621-07, and 1192-621-08), Mark J Mazzulla (1192-621-02 and 1192-621-20), Robert Forshay (1192-621-03), Ransom Tirb (1192-621-04), Raymond C. T.R. Ramirez (1192-621-06), and Filipino Association of San Bernardino County (1192-621-09).
Size	Approximately 13.7 acres
Property Tax ID	APNs: 1192-601-05, 1192-601-09, 1192-601-43, 1192-621-02, 1192-621-03, 1192-621-04, 1192-621-05, 1192-621-06, 1192-621-07, 1192-621-08, 1192-621-09, 1192-621-20, 1192-621-21, 1192-621-22, and 1192-621-23.
Topography and Hydrology	
Topography	Site: Generally flat Region: Regionally, the ground slopes downward to the west
Nearest Surface Water Body to the Site	On-site: There is one approximately 500-square-foot personal swimming pool on parcel 1192-621-04. Off-site: City Creek, a tributary of the Santa Ana River, adjacent to the north.
Geology and Hydrogeology	
Presumed Direction of Shallow Groundwater Flow[1]	According to the "*Operations, Maintenance, and Monitoring 2017 Annual Report*" prepared for the former Norton Air Force Base located 0.18 miles to the southwest, groundwater in the vicinity of the site flows to the southwest. Based on the topographic gradient of the site and the flow of the City Creek to the southwest, shallow groundwater at the site likely flows to the southwest.
Depth to Groundwater	Depth to groundwater information for the site was not readily available. Groundwater at the former Norton Air Force Base located 0.18 miles to the southwest of the site was encountered at 185.7 to 188.4 feet below-ground surface (bgs) during the January 2019 monitoring event according to the "*IRP Site 2 Landfill OMM 2019 Annual Report – Final*".
Nearby Groundwater Supply Wells	According to well database information provided in the EDR report, one federally registered well is present on-site and 26 state and federally registered wells are present within one-quarter mile of the site; none are identified as a public supply well.
Geologic Conditions	Regional soils are well drained to excessively drained gravelly loamy sands with moderate to high infiltration rates.

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Table 2: Physical Setting Information	
Conditions	**Description**
Notes: Information in this table was obtained through visual observations during the site visit; a review of USGS topographic maps, Google Earth imagery, information contained in the database search report, prior environmental assessment reports (if available), and local agency sources (noted in Chapter 2), and information provided by site representatives. [1] - In the absence of on-site measurements of groundwater flow direction, presumed direction of groundwater flow is based on local/regional topography and the location and direction of flow of nearby surface water bodies.	

3.2 Current Use of the Site

Parcel 1192-621-04 is currently used by Ransom (Randy) Tirb as a residential lot, which includes a residential home on the southern portion of the lot, a personal pool, and four storage structures on the northern portion of the lot. Operations on the lot do not involve any manufacturing or fabrication activities. The tenant conducts vehicle maintenance and upkeep on the lot as a personal activity. The storage structures on the northern portion of the lot contain vehicles, vehicle parts, and maintenance materials. Maintenance-related chemicals and janitorial supplies, including lubricants, antifreeze, coolant, and paint, are used in small quantities (containers of five gallons and smaller). Site representatives knew of no use of chlorinated solvents or polyfluoroalkyl substances (PFAS) at the site, and the use of such chemicals is considered unlikely based on the nature of site uses.

Parcel 1192-621-03 is currently owned by Robert Forshay and is vacant. Structures on the site include two small, residential buildings that have been vacant since the 1980s. Operations on the site do not involve the storage of any raw materials and do not involve any manufacturing or fabrication activities. Site representatives knew of no use of chlorinated solvents or polyfluoroalkyl substances (PFAS) at the site, and the use of such chemicals is considered unlikely based on the nature of site uses.

Parcel 1192-621-09 is currently used by the Filipino Association of San Bernardino County as an event space, which involves the gathering of people at the site. Operations on the site do not involve the storage any raw materials and do not involve any manufacturing or fabrication activities. Site representatives knew of no use of chlorinated solvents or polyfluoroalkyl substances (PFAS) at the site, and the use of such chemicals is considered unlikely based on the nature of site uses.

The parcels 1192-621-02 and 1192-621-20 are currently used by Mazzulla Offroad for metal auto parts manufacturing, truck parking, and storage. The major operations conducted at the site are described below:

- *Metal Manufacturing* – Mazzulla Offroad performs minor metalworking operations in the warehouse on the southern portion of the lot to manufacture offroad truck products, including control arms, skid plates, bumpers, and hubs. The manufacturing process includes cutting machines and turning machines.
- *Third-party Storage* – The site owner rents out space to third parties that store trucks, vehicles, and miscellaneous materials on the site. Notable items stored at the site include containers of scrap metal, stucco material, and drums of oil.

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- *Ancillary Operations* – Mazzulla Offroad also performs packaging, shipping and administrative operations, none of which involve the use of significant quantities of chemicals. In addition, Mazzulla Offroad conducts the following activities in support of the major operations:
  - General building and machinery/equipment maintenance, which includes replacing the coolant and small parts.
  - Transfer of raw materials and finished products using one propane-powered forklift; the unit is serviced on-site by outside contractors.

The primary raw materials used at the site include metal, oil, coolant, and propane. In addition, the Mazzulla Offroad uses maintenance-related materials, such as lubricants, greases, and welding gases. According to site representatives, no chlorinated solvents or PFAS are currently used at the site. However, because of the history of metalworking at the site and the lack of information about historical chemical use, it is possible that chlorinated solvents have been used at the site. This matter is further discussed in Section 6.

The parcels 1192-601-05, 1192-601-43, 1192-601-09, 1192-621-05, 1192-621-06, 1192-621-07, 1192-621-08, 1192-621-21, 1192-621-22, and 1192-621-23 are currently used by KCB Towers Inc. for steel product manufacturing and distribution. The major operations conducted at the site are described below:

- *Receiving* – Raw, unfinished steel is received from the site entrance at the northeast corner of the lot. The raw steel is stored on the exterior gravel on the western portion of the site until it is ready to be processed.
- *Metalworking* – Metalworking, including cutting, drilling, and welding, is performed on the raw steel in the warehouse on the eastern portion of the lot.
- *Finishing* – If needed, the steel pieces are painted in a concrete-paved area surrounded by a berm on the northeast corner of the lot.
- *Vehicle Refueling* – Vehicles and heavy machinery are refueled with diesel fuel at the contained fueling station at the southwest corner of the lot.
- *Personal Storage* – The owner and employees of KCB Towers Inc. store personal belongings, including furniture, teaching supplies, and ATVs in metal storage containers and the small warehouse and residential buildings on the western portion of the site.
- *Ancillary Operations* – KCB Towers Inc. also performs shipping and administrative operations, none of which involve the use of significant quantities of chemicals. In addition, KCB Towers Inc. conducts the following activities in support of the major operations:
  - General building and machinery/equipment maintenance, including parts changing, fluid changes, and vehicle repair.
  - Operation of one parts washer unit, containing a petroleum-based degreaser, in the maintenance area.
  - Transfer of raw materials and finished products using two propane-powered forklifts and approximately six diesel-fueled heavy machinery; the units are serviced on-site by outside contractors.

The primary raw materials used at the site include steel, diesel fuel, and compressed gases. In addition, KCB Towers Inc. uses maintenance-related materials, such as fuels, oils, lubricants, coolant, antifreeze, greases, non-chlorinated degreasers, welding gases, and detergents. According to site

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representatives, no chlorinated solvents or PFAS are currently used at the site. However, because of the history of metalworking at the site and the lack of information about historical chemical use, it is possible that chlorinated solvents have been used at the site. This matter is further discussed in Section 6.

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4. RECORDS REVIEW

4.1 Historical Site Use and Local Agency Information

The site was undeveloped land until residences were constructed on the site from approximately 1930 to 1960. In the 1960s, some portions of the site began to be developed for industrial use while other portions of the site remained residential. Notable site occupants include the Bogh family, who started their steel cutting and welding business around 1982 and the Mazzulla family, who started their grading operations on the site around 1983.

Based on Ramboll's review of the past uses of the site, it is possible that former use of the site for metalworking operations involved the use of chlorinated solvents; Ramboll considers the historical use of PFAS at the site to be unlikely.

The following table provides a summary of key information obtained by Ramboll from a review of available historical resources and information obtained from local governmental agencies and regulatory bodies.

Table 3: Summary of Historical Resources and Local Agency Information for the Site

Historical Resource	Key Observations Regarding Site History
Historical Resources	
Aerial Photographs (1930, 1938, 1949, 1953, 1959, 1966, 1968, 1975, 1985, 1989, 1994, 2002, 2006, 2009, 2012, and 2016) Satellite Imagery [1] (1985 to 2021)	1930 – 1938: The site is mostly undeveloped, vacant land with one small residential structure on the southeast corner of the site (lot 1192-621-22). 1949 – 1953: Two more residential structures appear along the southern boundary of the site (lots 1192-621-05 and 1192-621-03). Each residential structure has associated smaller structures (about three) around them. 1959: All previous structures remain the same. A small residential structure is present on the northwest corner of the site (lot 1192-621-07). 1966: All previous structures remain the same. A small warehouse-like structure is located on the western portion of the site (lot 1192-621-09). 1968 – 1975: All previous structures remain the same. One larger warehouse structure is added to lot 1192-621-09. One lot on the eastern portion of the site (lot 1192-621-21) is developed for industrial purposes with two warehouse buildings and vehicle parking. 1985: All previous structures remain the same. One lot in the center (current parcel 1192-621-04) appears to be developed for residential purposes with a residential structure and storage on the northern portion of the lot. 1989 – 1994: All previous structures remain the same. Two lots on the eastern portion of the site (1192-621-02 and 1192-621-20) are now developed for industrial use with one warehouse structure on the southwest corner of lot 1192-621-02. One large warehouse structure has been constructed in the center of lot 1192-621-21 on the eastern portion of the site. 2002: All previous structures remain the same, except for the warehouse on lot 1192-621-02 which has been extended to the north. A large portion of the northern and western sites (lots 1192-601-05, 1192-601-43, 1192-601-09, 1192-621-08, 1192-621-07) are developed for industrial use. 2006 – 2012: All previous structures remain the same. Lot 1192-621-06 has been developed for light industrial use and appears to be used as storage.

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Table 3: Summary of Historical Resources and Local Agency Information for the Site

Historical Resource	Key Observations Regarding Site History
	2016 – 2021: All previous structures remain the same.
Topographic Maps (1899 to 2018)	1899 – 1901: No development depicted. 1953 – 1954: Three small structures are depicted along the southern boundary of the site. 1967 – 1988: One of the structures along the southern boundary has been removed. Two additional structures are depicted on the western portion of the site. 2012 – 2018: No development depicted.
City Directory Abstracts (1971, 1976, 1980, 1986, 1992, 1995, 2000, 2005, 2010, 2014, and 2017)	Prior uses and occupants of the site are listed as: 27124 Meines Street: Philipino Association San Bernardino (1971-2010) 27184 Meines Street: Aron Pruett Sr. (1971-1986), Ed Kruse (1992), and Oscar Uribe (2005) 27200 Meines Street: Marvin Peek (1980-1986), Pride Utilities (1992-1995) and Ransom Tirb (2005-2017) 27220 Meines Street: Salvador L Yepez (1980) and Gonzalo Uribe (1986) 27232 Meines Street: Mazzulla Offroad and Mazzulla Grading (2010) 27260 Meines Street: Mark J Mazzulla Grading Company (1986-2000), Highland Crane (1992-2000), Highlander Group (2005), and KCB Towers Inc. (1995-2017) 27280 Meines Street: S P Manning Tree Service (1971-1980), Simon P Manning (1971-1986) and Lynn Bogh (2005-2014)
Local Agency Information	
Tax assessor website	The site is composed of 15 tax parcels: 1192-601-05: Bogh Family Trust, site owner since 2008 1192-601-43: Bogh Family Trust, site owner since 2019 1192-601-09: KCB Towers Inc, site owner since 2017 1192-621-02: Mark J Mazzulla, site owner since 2013 1192-621-03: Robert Forshay, site owner since 1976 1192-621-04: Ransom Tirb, site owner since 2001 1192-621-05: Lynn Bogh, site owner since 2009 1192-621-06: Raymond Ramirez, site owner since 1997 1192-621-07: KCB Towers Inc, site owner since 2017 1192-621-08: KCB Towers Inc, site owner since 2017 1192-621-09: Filipino Association of San Bernardino County, site owner since 1963 1192-621-20: Mark J Mazzulla, site owner since 2013 1192-621-21: Bogh Family Trust, site owner since 2008 1192-621-22: Bogh Family Trust, site owner since 2008 1192-621-23: Bogh Family Trust, site owner since 2014

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Table 3: Summary of Historical Resources and Local Agency Information for the Site

Historical Resource	Key Observations Regarding Site History
San Bernardino County Fire Department	Ramboll requested records from the San Bernardino County Fire Department concerning the utilization, manufacture, storage, and discharge of hazardous materials and waste and any information concerning previous or ongoing site investigations and remediation pertaining to hazardous materials and waste at the site. The San Bernardino County Fire Department informed Ramboll that the department only had records for 27232 and 27260 Meines Street. Records provided by the department include: • Special Generator and Special Handler permits for Ronald A. Dieffenbacher (27232 Meines Street) from 1997 to 2002. • Ronald A. Dieffenbacher (27232 Meines Street) was declared Out of Business in 2002. A hazardous waste generator and handler inspection was conducted, and one 300-gallon AST of waste oil was properly removed. • Limited Quantity Generator and Hazardous Material Handler 3-10 Employees permits for KCB Towers Inc. (27260 Meines Street) from 1995 to 2016. • KCB Towers Inc. (27260 Meines Street) submitted their Hazardous Materials Business Plan (HMBP) in 1996 and updated it in 1997, 2000, 2006, 2007, 2008, 2009, 2010, 2011, 2012, and 2013. • CUPA Compliance Inspection Report of KCB Towers Inc. (27260 Meines Street) from 2000, 2005, 2011, 2014, 2017, and 2020. Violations included failure to obtain EPA ID, illegal disposal of hazardous waste due to an inactive EPA ID, improper labeling, improper management of hazardous waste, improper disposal of waste oil filters, and administrative violation. All violations have been returned to compliance.
City of Highland Fire Department	Ramboll requested records from the City of Highland Fire Department concerning the storage of hazardous materials and waste and underground storage tanks at the site. The City of Highland Fire Department informed Ramboll that they do not have records for the site and the lead agency for the site is the San Bernardino County Fire Department.
City of Highland Building Department	Ramboll requested records from the City of Highland Building Department concerning building permits and certificates of occupancy for the site. Records from the City of Highland Building Department include: • Electrical permits for address 27162 Meines Street, owned by Margaret and Miles Bogh, from 2008. • Building permits for address 27184 Meines Street, owned by E. W. Kruse, to add detached garage in 1988 and to build a carport in 1991. • Building permits for address 27184 Meines Street, owned by Clarene and Stanley Harris, to add two walls to an existing carport in 1998, to tear off and reroof the building in 2007, and to board up and remove utilities from the garage and metal building in 2008. • Building permit for address 27200 Meines Street, owned by Ransom and Sandra Tirb, to replace windows and doors in 2021. • Building permit for address 27232 Meines Street, owned by Mark Mazzulla, for electrical upgrades in 2020. • Certificate of occupancy for address 27260 Meines Street by IWA Engineers in 1996.

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Table 3: Summary of Historical Resources and Local Agency Information for the Site	
Historical Resource	**Key Observations Regarding Site History**
	• Building permit for address 27260 Meines Street, owned by KCB Towers Inc, for electrical upgrades in 1996, to construct a garden wall in 2000, for a building extension in 2000, and for a new heating system in 2005. • Building permit for address 27280 Meines Street, owned by Bogh Family Trust, to build a fence in 2020.

Notes:

[1] In addition to aerial photographs provided by the third-party provider, Ramboll viewed historical satellite imagery available on Google Earth. Printed copies were not obtained, and imagery dates were not independently verified.

The third-party provider reported that Sanborn fire insurance map coverage is not available for the site.

4.2 Environmental Regulatory Database Review for the Site

Ramboll reviewed the results of the state and federal environmental database searches performed by EDR (see Appendix B) and reviewed information available in California GeoTracker and EnviroStor. The site is listed on several environmental databases, as discussed in the table below.

Table 4: Summary of Environmental Database Listings for the Site	
Summary of Information Contained in Database	**Ramboll's Comments**
KCB Towers Inc. (27260 Meines Street) is listed on the following databases: Resource Conservation and Recovery Act as a Non-generator or No Longer Regulated (RCRA NONGEN/NLR), Hazardous Waste Tracking System (HWTS), Facility and Manifest Data (HAZNET), California Environmental Reporting System (CERS), CERS Hazardous Waste (CERS HAZ WASTE), and the San Bernardino County Permit (SAN BERN. CO. PERMIT) for the generation of California-regulated hazardous materials. EPA IDs used in association with these listings include CAC002209065 (active from 2000 to 2001) and CAL000248885 (active from 2002 and is currently active). Hazardous wastes generated include unspecified solvent mixture, off-specification, aged, or surplus organics, unspecified oil-containing waste, unspecified organic liquid mixture, organic solids with halogens, and other organic solids. Violations included improper handling of wastes, improper labeling, and administrative violations. All violations have been returned to compliance in a timely manner. KCB Towers Inc. is also listed on the Aboveground Storage Tank (AST) database for the presence of an on-site AST. The date of installation, contents, and size of the AST is not reported.	Listings related to hazardous waste generation and on-site ASTs, without indication of spills or releases, do not suggest a contamination concern to the site.

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Table 4: Summary of Environmental Database Listings for the Site

Summary of Information Contained in Database	Ramboll's Comments
Ron Dieffenbacher Equipment (27232 Meines Street) is listed on the HWTS and SAN BERN. CO. PERMIT databases for the generation of California-regulated hazardous materials. The EPA ID registered with this listing is CAC002557205 (active from 2002 to 2003). The type of wastes generated at the site are not reported and there are no violations reported.	Listings related to hazardous waste generation, without indication of spills or releases, do not suggest a contamination concern to the site.
Equipment Storage (27256 Meines Street) is listed on the HWTS for the generation of California-regulated hazardous materials. The EPA ID registered with this listing is CAL000250323 (active from 2002 to 2008). The type of wastes generated at the site are not reported and there are no violations reported.	Listings related to hazardous waste generation, without indication of spills or releases, do not suggest a contamination concern to the site.

Notes:

The site is also listed on the following databases related to regulatory compliance: National Pollutant Discharge Elimination System (NPDES), California Integrated Water Quality System (CIWQS), Enforcement & Compliance History Information (ECHO), and Facility Index System/Facility Registration System (FINDS). Listings on these databases, by themselves, are not necessarily indicative of contamination.

4.3 Previous Environmental Assessments and Activities

Based on a review of historical site documents and interviews with site representatives, no prior Phase I environmental assessments, UST closures, environmental sampling, or remediation activities are known to have been conducted at the site.

4.4 User-Provided Information

Ramboll provided Lovett Industrial, LLC with a User Questionnaire (consistent with Appendix X3 of the ASTM Standard) that requested information relating to environmental liens, activity use limitations (AULs), specialized knowledge of the site, property value diminution, chain-of-title, and any other commonly known or obvious indications of site contamination, as well as information on any proceedings involving the site (as noted in Section 10.9 of the ASTM Standard) that was not otherwise provided to Ramboll (see Appendix D). The user did not provide any information that was not otherwise obtained and reviewed by Ramboll.

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5. SITE OBSERVATIONS

5.1 Chemical and Petroleum Storage

5.1.1 Underground Storage Tanks (USTs)

According to site representatives, there are no current or former USTs at the site, and Ramboll identified no visual evidence of such (e.g., vent pipes, fill ports, or dispensing equipment) during the site visit or in the review of records pertaining to the site.

5.1.2 Aboveground Storage Tanks (ASTs)

Several ASTs are maintained at the site, as summarized in the table below. Site representatives knew of no leaks or spills relating to the tanks, and Ramboll did not observe evidence of staining or past releases at the time of the site visit. Site representatives indicated that there are no current or former underground transfer lines used to convey the materials from the tanks.

Table 5: Aboveground Storage Tanks and Bulk Containers

Location	# of tanks	Contents	Sizes	Observations
Northeast corner of parcel 1192-601-43	1	Propane gas	499 gallons	Tank is maintained within a secondary containment area constructed on concrete block. No evidence of spills or releases observed.
Oil reservoir in cutting machine on parcel 1192-621-02	1	Coolant	50 gallons	No secondary containment is provided but the cutting equipment is located indoors, and no evidence of significant spills or releases of oils was observed.
North side of parcel 1192-621-02	1	Propane gas	499 gallons	Tank is maintained within a secondary containment area constructed on concrete block. No evidence of spills or releases observed.
South side of parcel 1192-621-08	2	Diesel fuel	1000 gallons and 500 gallons	Tanks are maintained within a concrete area with a drain and containment pit. No evidence of spills or releases observed.

5.1.3 Other Chemical and Petroleum Containers

Chemical storage at the Mazzulla Offroad lot is limited to lubricating oils and coolant (stored in 5-gallon pails in the warehouse), welding gases (stored in cylinders in the warehouse), oil (owned by third parties and stored in 55-gallon drums on the exterior of the site), propane (stored in an AST), and janitorial and maintenance chemicals (stored in retail-sized containers of 5-gallons of less inside of the warehouse). Staining, the largest approximately three feet by five feet in surface area, was observed around the oil drums on the exterior gravel of the site. This matter is discussed further in Section 7.

Several dedicated drum and other storage areas for chemicals and petroleum products are maintained at the KCB Towers Inc. facility:

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- Lubricating oils and other petroleum products are stored in 55-gallon drums and 5-gallon pails in the maintenance area on the northern portion of the site. During the site visit, Ramboll observed 5 drums stored on wooden pallets and approximately 7 pails stored on pavement in this area.
- Small, retail-sized containers (5-gallons or less) of chemicals are stored on a shelf in the maintenance area on the northern portion of the site. Chemical stored in this area include paint thinner, paint, non-chlorinated solvents, engine oil, brake fluid, adhesives, detergents, and sanitizers.
- Empty drums and chemical storage containers are stored in the eastern maintenance area on the northern portion of the site. During the site visit, Ramboll observed approximately 15 empty drums and chemical storage containers stored on pavement.
- Tanks of compressed gases and liquefied gases, including oxygen, argon, nitrogen, and propane, of various sizes from are stored along the exterior of the eastern wall of the warehouse.

Site representatives knew of no significant spills or releases of materials at drum and container storage areas. While dedicated secondary containment was not provided for all of the drums and containers, Ramboll did not observe evidence of spills or uncontrolled releases from these storage areas, other than minor staining on the paved flooring of the maintenance area. Staining did not appear to extend to unpaved surfaces.

Chemical storage at the remainder of the site is limited to retail-sized containers (5-gallons or less) of maintenance and cleaning chemicals, including motor oil, lubricants, detergents, bleach, and sanitizers stored inside of the Filipino Association of San Bernardino County's building and inside of Randy Tirb's garage and warehouses. No evidence of releases was observed in these areas. Chemicals are not stored in exterior areas of the site.

5.2 Other Site Reconnaissance Observations

During the site visit, Ramboll made observations of interior and exterior portions of the site to look for and identify the features, activities, uses, and conditions specified in Section 9.4 of the ASTM Standard, as discussed in the table below.

Table 6: Site Reconnaissance Observations

Conditions	Description
Site Utilities and Equipment	
Heating and Cooling Equipment	The buildings are cooled with packaged electric air conditioning units.
Natural Gas Service	The site is provided with natural gas service.
Use of Fuel Oil for Building Heat	No current or known former use of fuel oil for building heat.
Foam-based Fire Suppression System	According to site representatives, the site is not equipped with a built-in foam-based fire suppression system.

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Table 6: Site Reconnaissance Observations

Conditions	Description	
Water Supply and On-site Water Wells	The site receives drinking and process water from the East Valley Water District water system.	
PCB-containing Equipment	Site representatives were not aware of any on-site equipment that is known to contain PCBs. There are currently three pole-mounted transformers along the southern boundary of the site and one pad-mounted transformer located at the southwest corner of parcel 1192-621-21; the units are owned by Southern California Edison. The units are not labeled as to their PCB content. Because the units may have been installed before the 1979 federal ban on the manufacture of PCBs, it is possible that transformer oils contain PCBs. Because the buildings were constructed prior to the 1979 federal ban on the manufacture of PCBs, it is possible that hydraulic or other types of electrical equipment, such as capacitors, contain PCBs. Ramboll observed no evidence of leaks or releases from transformers or other hydraulic/electrical equipment during the site visit.	
Waste, Wastewater and Stormwater		
Waste	Hazardous and Universal	Hazardous wastes generated at the site, which include metal shavings and waste oil, are stored in 55-gallon drums inside of the Mazzulla Offroad warehouse and in the KCB Towers Inc. maintenance area. Universal wastes, which include batteries and light bulbs, are stored inside the Mazzulla Offroad warehouse and the KCB Towers Inc. office.
	Nonhazardous	Nonhazardous waste generated at the site includes general waste and recyclable waste and is stored on pavement in lidded dumpsters and trash bins along the southern site boundary and on pavement on the northeast corner of the site.
	Observations	Ramboll observed staining around the hazardous waste drums containing waste oil in the maintenance area of KCB Towers Inc. Staining was limited in size, on pavement, and did not extend to unpaved surfaces or stormwater drains.
Wastewater	Sanitary	Sanitary wastewater from the site is discharged to the municipal sanitary sewer system.
	Process	Operations at the site do not generate process wastewater.
	Septic Systems	Sanitary wastewater is discharged to a septic tank with associated leach field located at parcel 1192-621-02 owned by the Filipino Association of San Bernardino County.
	Observations	Ramboll observed no evidence a contamination concern associated with wastewater management at the site.
Stormwater	Management	Percolates into the ground surface at unpaved areas and enters catch basins that discharge to the municipal storm sewer system.

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Table 6: Site Reconnaissance Observations

Conditions	Description	
	Observations	Ramboll observed no evidence of a contamination concern associated with stormwater management at the site.
Other Interior and Exterior Observations		
Exterior Ponds, Pits, Lagoons and Standing Surface Water	Ramboll observed a personal swimming pool on parcel 1192-621-04, owned by Randy Tirb, but did not identify any evidence of spills or releases of chemicals or petroleum products to the pool.	
On-site Disposal or Fill Material	Ramboll observed a pile of soil and dirt on the southwest corner of the KBC Towers Inc. lot. Facility personnel reported that the soil originated at the site and is the remnants of leveling activities at the site.	
Staining and Stressed Vegetation	Other than previously mentioned staining, Ramboll observed no evidence of additional staining or stressed vegetation at the site.	
Interior Drains, Sumps, Pits, and Trenches	Ramboll observed two areas with floor drains and below-ground, 1000-gallon grease pits adjacent to the vehicle and equipment maintenance area on the northern portion of the KCB Towers Inc. lot and adjacent to the refueling station on the southwest corner of the KCB Towers Inc. lot. The drains are used to collect and the grease pits are used to contain releases of oils, oily water, and any fluid from the maintenance and refueling areas. According to a site representative, these pits are constructed of concrete, do not have outlets, and are routinely serviced by a third-party if liquid accumulates. The interiors of the drains and pits could not be observed during the site visit. No staining on the concrete or other evidence of releases to the drains and grease pits were observed during the site visit. The drains and grease pits are further discussed in Section 7.1.	
Odors	At the time of the site visit, Ramboll did not note strong odors in interior or exterior areas at the site.	

5.3 Additional Considerations

Ramboll's scope of work also included a review of certain additional considerations that are not included within the scope of the ASTM Standard (i.e., "ASTM non-scope considerations"). A summary of Ramboll's findings for these additional considerations is provided in the table below and in Section 5.3.1.

Table 7: Review of Additional Considerations

Consideration	Site Visit Information and Observations	Comments/Findings
Flood Plains	Site representatives reported no known occurrences of flooding at the site. The site is not located within a 500-year flood zone.	No issues identified
Wetlands	According to the wetlands information provided by the National Wetland Inventory (NWI) (as obtained	No issues identified

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Table 7: Review of Additional Considerations

Consideration	Site Visit Information and Observations	Comments/Findings
	from the EDR database report), there are no on-site federally designated wetlands.	
Lead-Based Paint	Lead was a major ingredient in paint pigment prior to and through the 1940s. While other pigments were used in the 1950s, the use of lead in paint continued until the early 1970s. In 1978, the Consumer Products Safety Commission banned paint and other surfacing coating materials that are "lead-containing paint." Based on the construction date of some of the site buildings (i.e., the two residential buildings on parcel 1192-621-03 in the 1930s, one residential building on parcel 1192-621-05 in the 1950s, and one building on parcel 1192-621-09 in the 1960s), it is possible that lead-based paint was used historically on the buildings. Ramboll made limited, non-exhaustive observations of painted surfaces at the site. Site representatives indicated that no LBP surveys have been performed at the site. Ramboll observed damaged and degraded paint in the two residential buildings on parcel 1192-621-03.	Ramboll observed damaged and degraded paint in the two residential buildings on parcel 1192-621-03. Based on the age of the site buildings, it is possible that these surfaces contain LBP.
Radon	According to site representatives, no radon surveys have been completed at the site. According to the USEPA's radon zone information for the site (as obtained from the EDR database report), the site is located in an area categorized as Zone 2, which has average indoor basement radon levels from 2 to 4 picoCuries per Liter (pCi/L). California tested radon levels at 21 properties in the zip code in which the site is located (i.e., 92346), and found that none of the sites surveyed found radon levels greater than 4 pCi/L and the maximum result for all sites surveyed was 2 pCi/L.	The USEPA's continuous exposure limit for radon, which is the limit at which further testing or remedial action is suggested, is 4.0 pCi/L. This USEPA continuous exposure limit applies to residential, not commercial, properties. The risk of exposure to radon is limited by the fact that, according to California's radon test results, no sites within the zip code have exceeded 2 pCi/L.

Notes:

Ramboll did not conduct a comprehensive survey for any of the issues noted above. Furthermore, Ramboll's observations were inherently limited and included only non-exhaustive visual observations.

5.3.1 Asbestos Containing Materials (ACMs)

Although an asbestos inspection and sampling of suspect building materials in conformance with established protocols (as outlined in 40 CFR §763), applicable state or local regulations, or industry standards, were beyond our scope of work, Ramboll made limited visual observations[4] of representative building materials in those areas accessed during the site tour to identify readily apparent PACM and suspect ACM. OSHA's definition of PACM is limited to thermal system insulation

[4] Ramboll did not observe all building materials or formally survey the facility to determine the presence and condition of PACM and suspect ACM.

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(TSI) and surfacing materials present in buildings constructed before 1981. Vinyl floor tiles are not considered PACM, but OSHA nonetheless requires that asphalt and vinyl floor tiles present in buildings constructed before 1981 be treated similarly to PACM. The term suspect ACM is not defined by OSHA but can include numerous building materials manufactured using asbestos currently or in the past (e.g., ceiling tiles, roofing materials, joint compound), as well as TSI, surfacing materials, and flooring materials installed after 1981.

Because most of the buildings at the site were constructed prior to 1981, including two small residential buildings on parcel 1192-621-03 built-in the 1930s, one residential building on parcel 1192-621-05 built-in the 1950s, one building occupied by Filipino Association of San Bernardino County on parcel 1192-621-09 built-in the 1960s, and one residential home occupied by Randy Tirb on parcel 1192-621-04 built-in 1979, and a comprehensive asbestos survey has not been conducted, TSI, surfacing materials and vinyl/asphalt flooring must be treated as PACM. Also, based on the building age, the roofing materials may be considered suspect ACM.

There are no regulatory requirements to remove PACM, suspect ACM and known ACM or to confirm whether building materials contain asbestos, unless the materials are damaged and have the potential to release fibers or the materials have the potential to be disturbed during renovation or demolition activities. Ramboll observed certain building materials that were damaged or deteriorating, specifically including the two small residential buildings on parcel 1192-621-03 built-in the 1930s. OSHA requires building owners and employers to identify locations of PACM and confirmed ACM at the facility and comply with certain employee notification, training, labeling and recordkeeping requirements (29 CFR §1910.1001(j)) and housekeeping programs (1910.1001(k)).

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6. SURROUNDING PROPERTIES

The ASTM Phase I Standard requires an evaluation of the potential for migration of contamination onto the site from adjoining and other off-site properties. Ramboll's review of potential contamination risks posed by properties surrounding the site is presented below.

6.1 Current and Past Uses of Adjoining Properties and Surrounding Area

The site is located in a mixed industrial, commercial, and residential land use area, as summarized below. The nearest residence to the site is located adjacent to the site to the south.

The properties in the vicinity of the site have primarily been used for agricultural purposes (north, east, south, and west) since as early as the 1960s, with a few residences along Pomfret Road to the north and south. Ramboll did not observe obvious indications of environmental concern on the historical sources reviewed.

Table 8: Current and Past Uses of Adjoining Properties

Uses of Adjoining and Nearby Properties	Notable Past Uses and Approximate Time Period	Observations and Notes
North		
City Creek, a tributary of the Santa Ana River. Residential homes and vacant lots are present beyond the creek.	Undeveloped land (<1960) Residential (1966 – Present)	Ramboll did not observe conditions on or identify past uses of adjacent properties that represent a potential contamination concern to the site.
East		
Palm Avenue, beyond which is H & H General Contractors Inc, MEI Electrical Construction, KCB Offroad auto parts manufacturer, and vacant lots.	Undeveloped land (<1975) Small commercial/industrial buildings (1985 – Present)	H & H General Contractors is listed on databases related to generation of hazardous waste and ASTs and is further discussed in Section 6.2.1.
South		
Farmer Boys restaurant, vacant lots, Cool Distribution merchandise liquidator, and residential homes.	Undeveloped land (<1938) Residential homes (1949 – 1975) Residential home and small commercial buildings (1985 – Present)	Ramboll did not observe conditions on or identify past uses of adjacent properties that represent a potential contamination concern to the site.

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Table 8: Current and Past Uses of Adjoining Properties		
Uses of Adjoining and Nearby Properties	**Notable Past Uses and Approximate Time Period**	**Observations and Notes**
West		
Residential homes and ongoing construction.	Undeveloped land (<1938) Residential homes (1949 – Present)	Ramboll did not observe conditions on or identify past uses of adjacent properties that represent a potential contamination concern to the site.
Notes: During the site visit, Ramboll walked or drove by the borders of the properties that are adjacent to the site. Ramboll did not enter the neighboring properties.		

6.2 Database Review for Off-site Properties

6.2.1 Adjoining Properties

Based on a review of the environmental database search report, Ramboll identified the adjoining property listed below on databases relating to known or potential past releases.

Table 9: Database Listings Relating to Known/Potential Releases at Adjoining Properties[1]		
Listing Name or Address and Location Relative to the Site	**Summary of Information Contained in Database**	**Ramboll's Comments**
H & H General Contractors Inc. 7919 Palm Avenue (Adjoining to the east)	The property is listed on the AST and CERS Tanks database for the presence of an on-site AST. The date of installation, contents, and size of the AST are not reported.	Because there is no indication of any spills or releases, this off-site listing does not suggest a contamination concern to the site.
Notes: [1] Ramboll's analysis of adjoining properties was based on observations made during the site reconnaissance and location information for off-site listings as presented in the database report. Also, for purposes of this analysis, Ramboll considers as "adjoining" properties that are adjacent, even if separated by a road or other physical barrier. Ramboll has not included a discussion of compliance-related databases in this table, as Ramboll considers it unlikely that off-site properties listed on compliance-related databases without indication of a release or chemical mishandling represent a potential risk for contamination to the site.		

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6.2.2 Other Surrounding Properties

There are several listings in the environmental database report for non-adjoining off-site facilities within applicable ASTM search radii; however, Ramboll has not identified any properties that are likely to represent a potential contamination concern to the site.[5]

Ramboll notes that the site is located approximately 0.18 miles northeast of the former Norton Air Force Base, which is listed on the National Priorities List (NPL). The northeast corner of the former Norton Air Force Base, the corner closest to the subject site, is referred to as Installation Restoration Program Site 2 (IRP Site 2) and was a former base landfill used between 1958 and 1980. This site is also listed on GeoTracker as a "Military Cleanup Site with Open-Verification Monitoring as of 7/31/2009" status. A landfill cover and cover gas collection and control system were installed and completed in 1998. Groundwater monitoring reports for the former Norton Air Force Base site indicate that groundwater flows to the southwest, away from the subject site. Therefore, contamination associated with the former Norton Air Force Base site does not extend northeast of the base in the direction of the site. Further, groundwater impacts at the former Norton Air Force Base have been remediated to the satisfaction of regulatory agencies and the base-wide groundwater monitoring program was discontinued in 2019.

The database report indicates that poor or inadequate address information was available for several properties located in the vicinity of the site; therefore, these properties could not be readily mapped by the third-party provider. Because the location of these properties with respect to the site could not be evaluated, Ramboll is limited in its ability to express an opinion regarding the potential for impact to the site from these properties. It was beyond the scope of this review to accurately locate each of the unmapped properties identified in the database report; however, Ramboll reviewed the list of unmapped properties and verified that none appeared to be adjacent to the site.

[5] Ramboll considered non-adjoining properties to represent a potential risk of contamination to the site only if they are listed on databases indicative of contamination, with open status, and located potentially upgradient of the site (as the issuance of regulatory closure suggests that impacts to the site from the noted off-site property are unlikely).

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7. FINDINGS, OPINIONS, AND CONCLUSIONS

7.1 Findings, Opinions, and Conclusions

7.1.1 Recognized Environmental Conditions

Ramboll has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 of the site at 27124-27280 Meines Street in Highland, California. Any exceptions to, or deletions from, this practice are described in Section 7.2 of this report. This assessment has revealed no evidence of RECs in connection with the site.

7.1.2 Other Findings

In addition, the following additional findings related to potential contamination concerns were identified:

- **Past Light Industrial Operations at the Site.** Metalworking operations by KCB Towers Inc. began at the site around 1982 and has continued to the present. There is no readily available information as to the specific use of chemicals in the past, but there is no indication that these operations were chemically intensive or involved the use of significant amounts of petroleum products or hazardous substances. Because of the nature of the operations, it is possible that the use of the site for metalworking operations involved the use of chlorinated solvents. The site is not listed on any environmental databases indicative of a release or of hazardous waste generation. Also, Ramboll notes that these operations were conducted during a time period when robust environmental regulations were in the process of being put in place regarding chemical handling and waste management. While it is possible that small-scale spills or releases of chemicals or petroleum products may have occurred in the past, Ramboll identified no specific contamination concerns (e.g., obvious evidence of contamination, former USTs, listings indicating past chlorinated solvent use in significant quantities, known releases), and thus this matter is not considered a REC.
- **Presence of Floor Drains and Below-Grade Grease Pits.** Two areas with floor drains and below-grade grease pits are located on the KCB Towers lot, one adjacent to the vehicle and equipment maintenance area on the northern portion of the lot and one adjacent to the refueling station on the southwest corner of the lot. The drains are used to collect, and the grease pits are used to contain, any fluid containing petroleum products or chemicals from each area. The pits (1,000-gallon capacity) are constructed of concrete and are pumped out for cleaning on a routine basis by a third-party. Ramboll could not evaluate the integrity of the pits at the time of the site visit and cannot rule out the possibility of leakage from the pits and contamination to the subsurface. Site representatives indicated that no breaches in the pit have been discovered during the cleanings, which include a visual inspection, and no spills or leaks have occurred. Documentation of the cleanings and inspections was not available. Because Ramboll's review did not identify documentation of a release, a suspected release, or a potentially material threat of a release of a hazardous substance or petroleum product related to this matter, it is not considered a REC.
- **Staining on Unpaved Ground.** Ramboll observed multiple areas of darkened staining from unknown substances on unpaved surface on parcel 1192-621-20 owned by Mark Mazzulla, in areas associated with vehicle storage, minor auto repair operations, and around drums of hazardous substances. Portions of the stains were covered, obscuring visibility, but the largest staining was approximately three feet by five feet in area. While the nature of the stain was not clear, the use of the lot is related to vehicle storage and vehicle maintenance has occurred on the lot. However, Ramboll considers this minor staining matter unlikely to be the subject of additional

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investigation if brought to the attention of a regulatory authority and considers this matter to represent an Other Finding.

7.1.3 *De Minimis* Conditions

De minimis conditions are those that do not represent a material risk of harm to public health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies. Ramboll identified the following *de minimis* conditions related to the site:

- **Septic System and Leach Field.** An active septic system and associated leach field are used to collect sanitary wastewater from the building owned by the Filipino Association of San Bernardino County on parcel 1192-621-09. Site representatives indicated that only sanitary waste is discharged to the system. Further, the system services a building that has not historically included manufacturing operations, no known discharges of hazardous materials to the system have occurred, and no floor drains are present other than routine restroom drains. Because of the nature of the reported discharge and the absence of known past releases to the septic system, it is unlikely to represent a threat to human health or the environment. Thus, Ramboll characterizes this finding as a *de minimis* condition.
- **Pavement and Floor Staining.** Ramboll observed multiple areas of exterior pavement and interior flooring where oil stains were apparent. Stains approximately three feet by five feet in area were observed around the hazardous waste drums in KCB Tower Inc's maintenance area. The stains were limited in areal extent, the underlying pavement/flooring appeared to be intact, and no stains appeared to reach floor drains or stormwater drains. As such, Ramboll considers this matter to represent a *de minimis* condition.

7.2 Analysis of Data Gaps

The ASTM Standard defines a data gap as "a lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information." A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the environmental professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps.

Limiting conditions and deviations to the ASTM Standard for the assessment are discussed below.

- Site representatives did not have current contact information for representatives of former site owners/occupants or all current property owners. Ramboll made reasonable attempts to obtain such information, but it was not otherwise readily available. Thus, Ramboll was unable to interview former owners/occupants about historical operations and site conditions or all current property owners. However, Ramboll conducted interviews with representatives of KCB Towers Inc. with tenure at the site dating back to 1989, Mazzulla Offroad with tenure at the site dating back to 1999, Randy Tirb with tenure at the site dating back to 2001, and Tyler Plata, a representative of Robert Forshay and the Filipino Association of San Bernardino County, and reviewed other historical sources regarding former uses of the site.
- During the site visit, parcel 1192-621-09 owned by the Filipino Association of San Bernardino County was inaccessible due to a closed gate. The parcel and the building on this parcel were observed from perimeter areas. Based on the information provided by site representatives regarding this parcel, this limitation is not considered to have affected the analysis of site

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conditions. In addition, Ramboll did not observe the roofs of the buildings due to access and safety constraints.

- As it is a user requirement, Ramboll did not conduct a review of records to identify whether any environmental liens or AULs have been imposed on the site.

None of the exceptions, deletions, deviations, or site reconnaissance limitations noted above is considered to represent significant data gaps.

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8. ASTM DEFINITIONS

The following definitions are presented in the ASTM Standard:

REC - Recognized Environmental Condition:

(1) The presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.

CREC - Controlled Recognized Environmental Condition:

A REC affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, AUL or other property use limitations).

HREC - Historical Recognized Environmental Condition:

A previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, AUL or other property use limitations).

***De minimis* Condition:**

A condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Data Gap / Significant Data Gap:

A lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information. A data gap that affects the ability of the environmental professional to identify a REC is considered a significant data gap.

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FIGURES

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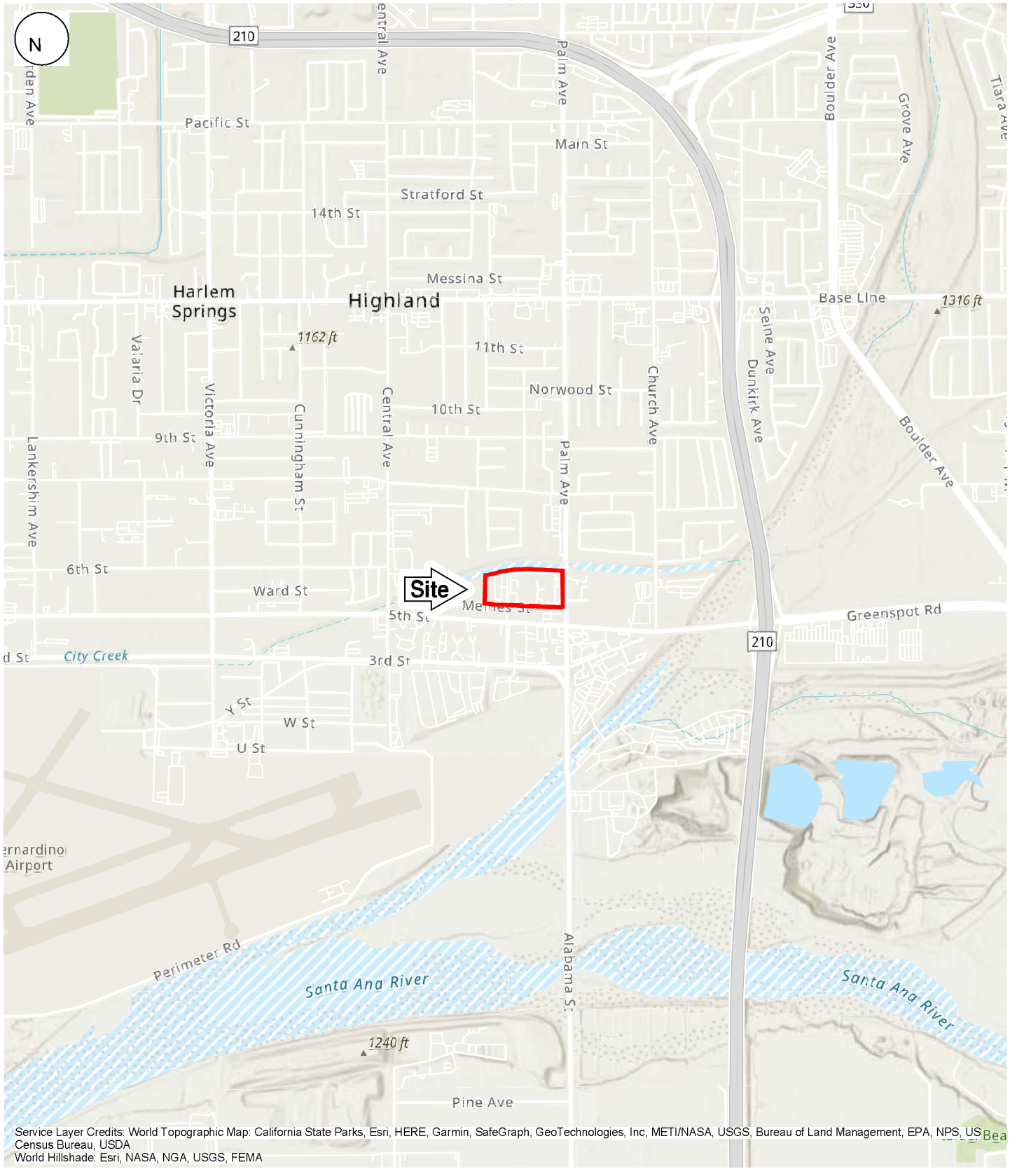

Service Layer Credits: World Topographic Map: California State Parks, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA
World Hillshade: Esri, NASA, NGA, USGS, FEMA

Map Scale: 1:24,000 | Map Center: 117°12'42"W 34°6'34"N

C:\Users\CWILLIAMSFREIER\Ramboll\Melody Kneale - Projects_Phase_II\Lovett Industrial\Meines Street\PhaseIFigures.aprx\Figure 01 - Site Location

KEY MAP (not to scale)

Site Boundary

0 1,000 2,000 Feet

SITE LOCATION

27124-27280 Meines Street
Highland, California

FIGURE 01

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

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PROJECT: 1690026564 | DATED: 5/18/2022 | DESIGNER: CWILLIAMSFREIER C:\Users\CWILLIAMSFREIER\Ramboll\Melody Kneale - Projects_Phase_I\Lovett Industrial\Meines Street\PhaseIFigures.aprx\Figure 02 - Site Layout

Site Boundary
GW General Waste
AST Propane AST
T Transformer
O Oil Reservoir in Cutting Machine
0 75 150 Feet

Occupied by KCB Towers Inc
Occupied by Mazzulla Offroad
Occupied by Randy Tirb
Occupied by Filipino Association of San Bernardino County
Vacant parcel owned by Robert Forshay

SITE LAYOUT

27124-27280 Meines Street
Highland, California

FIGURE 02

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

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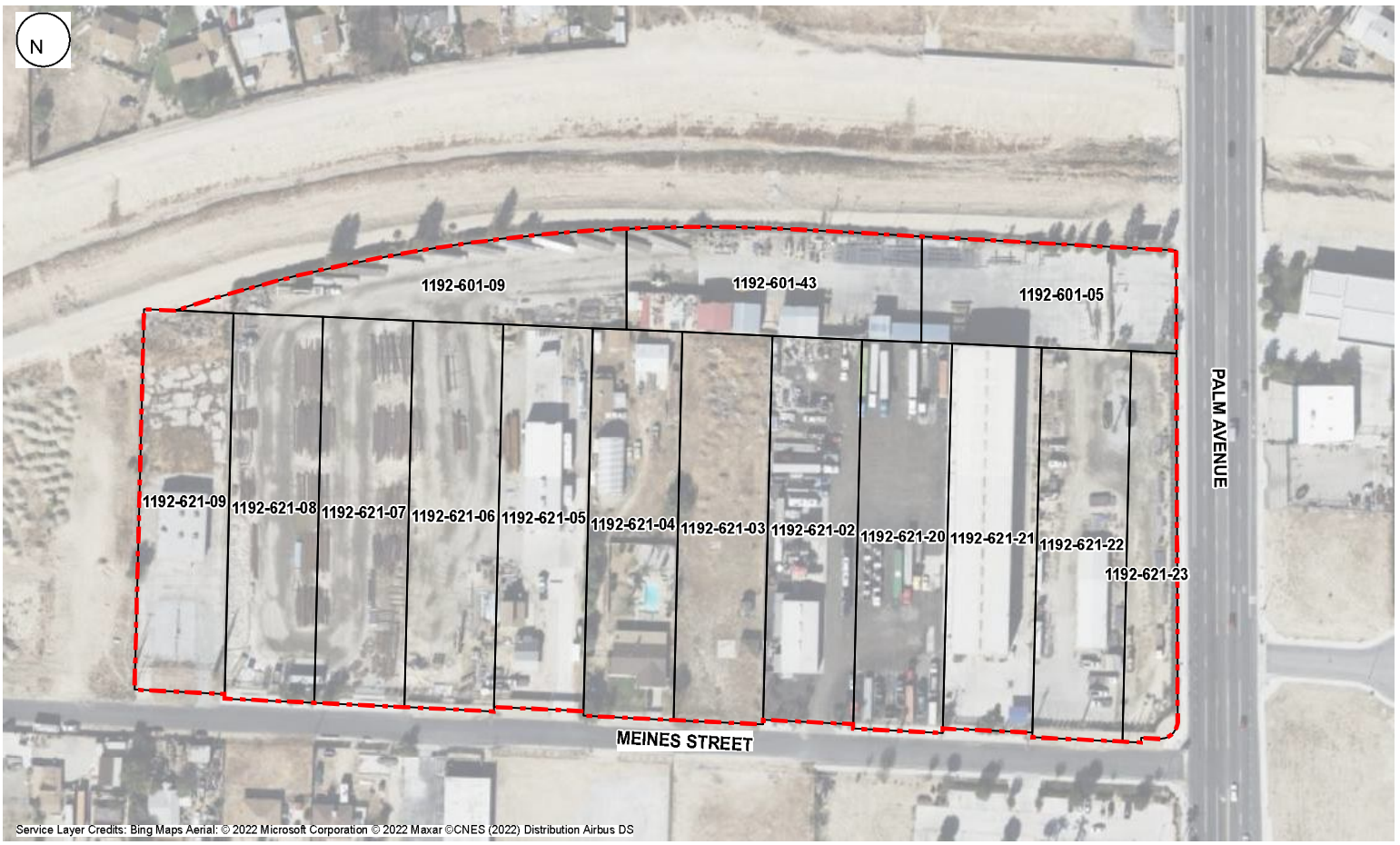
PROJECT: 1690026564 | DATED: 5/12/2022 | DESIGNER: CWILLIAMSFREIER C:\Users\CWILLIAMSFREIER\Ramboll\Melody Kneale - Projects_Phase_I\Lovett Industrial\Meines Street\PhaseIFigures.aprx\Figure 03 - Tax Parcels



Site Boundary
Tax Parcels

0 75 150 Feet

TAX PARCELS

27124-27280 Meines Street
Highland, California

FIGURE 03

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

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APPENDIX A
SITE PHOTOGRAPHS

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Photo 1: View of Mazzulla Offroad (parcels 1192-621-02 and 1192-621-20) and KCB Towers Inc (parcel 1192-621-21) from the southern site boundary, facing north.

Photo 2: Inside of KCB Towers Inc warehouse on the eastern portion of the site, where steel cutting and welding operations take place.

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Photo 3: Maintenance area on northern portion of KCB Towers Inc facility where hazardous chemicals and wastes are stored.

Photo 4: Empty drum storage and hazardous waste storage area located at maintenance area of KCB Towers Inc facility with minor pavement staining.

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Photo 5: Floor drains at maintenance area of KCB Towers Inc facility that direct any water and fluids to a grease pit at the site, which is maintained by a third-party.

Photo 6: The covers of the grease pit openings at the maintenance area of KCB Towers Inc facility.

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Photo 7: Propane AST located near the center of the northern site boundary of the KCB Towers Inc facility.

Photo 8: Fueling station with diesel fuel ASTs located on the southwest corner of the KCB Towers Inc facility.

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Photo 9: Floor drains at fueling station of KCB Towers Inc facility that direct any water and fluids to a grease pit at the site, which is maintained by a third-party.

Photo 10: The top and covers of the grease pit at the fueling station of KCB Towers Inc facility.

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Photo 11: View of fueling station and associated paved area with floor drains of KCB Towers Inc facility.

Photo 12: Hazardous materials storage and minor pavement staining located inside of the Mazzulla Offroad warehouse.

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Photo 13: Storage of metal scraps and miscellaneous equipment inside metal storage container on Mazzulla Offroad lot.

Photo 14: Propane AST located near the northern boundary of the Mazzulla Offroad lot.

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Photo 15: Truck parking, vehicle storage, and miscellaneous storage on the Mazzulla Offroad lot.

Photo 16: Drum labeled as used oil filters with staining on the unpaved ground surrounding it on the eastern boundary of the Mazzulla Offroad lot.

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Photo 17: Metal container storage and minor staining on the unpaved ground located at the Mazzulla Offroad lot.

Photo 18: View of the vacant lot owned by Robert Forshay (parcel 1192-621-03) with two vacant residential buildings.

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Photo 19: Interior of the abandoned residential building on the vacant lot owned by Robert Forshay (parcel 1192-621-03).

Photo 20: Inside of Randy Tirb's garage (parcel 1192-621-04) where retail-sized containers of maintenance and cleaning chemicals are stored.

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Photo 21: View of the pool and the backyard on Randy Tirb's lot (parcel 1192-621-04).

Photo 22: Warehouses and storage buildings on the northern portion of Randy Tirb's lot (parcel 1192-621-04) with storage of cars and car parts.

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Photo 23: View of the lot owned by the Filipino Association of San Bernardino County (parcel 1192-621-09) from the southern site boundary, facing north.

Photo 24: View of Meines Street with pole-mounted transformers along the southern site boundary, facing east.

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APPENDIX B
ENVIRONMENTAL DATABASE REPORT

NOTES ON ENVIRONMENTAL DATABASE REPORT

The third-party provider conducted its searches for the standard environmental record sources and the minimum search distances, as specified by the ASTM Standard. The ASTM Standard uses the terminology “approximate minimum search distance” to refer to the radii searched in the environmental database report.

Because the environmental databases themselves are sometimes not updated by the specific regulatory agencies for periods of up to one year or more (depending on the database and the state), the database search conducted herein will not necessarily list any facility or site for which an environmental investigation/listing has been initiated subsequent to the last update.

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Lovett Highland
27124-27280 Meines St
Highland, CA 92346

Inquiry Number: 6958529.2s
April 28, 2022

The EDR Radius Map™ Report with GeoCheck®

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GEOCHECK ADDENDUM

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Physical Setting SSURGO Soil Map	A-5
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Physical Setting Source Map Findings	A-13
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
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with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

27124-27280 MEINES ST
HIGHLAND, CA 92346

COORDINATES

Latitude (North):	34.1100060 - 34ˆ 6' 36.02''
Longitude (West):	117.2094280 - 117ˆ 12' 33.94''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	480684.3
UTM Y (Meters):	3774178.2
Elevation:	1192 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12014994 REDLANDS, CA
Version Date:	2018
North Map:	12015975 HARRISON MOUNTAIN, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140529, 20140603
Source:	USDA

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MAPPED SITES SUMMARY

Target Property Address:
27124-27280 MEINES ST
HIGHLAND, CA 92346

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	KCB TOWERS INC	27260 MEINES ST	FINDS, ECHO		TP
A2	KCB TOWERS INC	27260 MEINES ST	RCRA NonGen / NLR		TP
A3	DIEFFENBACHER, RONAL	27232 MEINES ST	CA San Bern. Co. Permit		TP
A4	KCB TOWERS INC	27260 MEINES	CA HAZNET, CA HWTS		TP
A5	RON DIEFFENBACHER EQ	27232 MEINES ST	CA HWTS		TP
A6	EQUIPMENT STORAGE	27256 MEINES ST	CA HWTS		TP
A7	KCB TOWERS INC	27260 MEINES STREET	CA AST, CA NPDES, CA San Bern. Co. Permit, CA...		TP
A8	KCB TOWERS INC	27260 MEINES ST	CA CERS HAZ WASTE, CA HAZNET, CA CERS, CA HWTS		TP
Reg	USAF NORTON AFB	305 S TIPPECANOE AVE	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-SQG, US ENG..	Same	943, 0.179, South
9	WEST PILING, INC.	27002 MEINES	RCRA NonGen / NLR	Lower	66, 0.013, West
A10	H & H GENERAL CONTRA	7919 PALM AVE	RCRA NonGen / NLR	Higher	115, 0.022, East
A11	H & H GENERAL CONTRA	7919 PALM AVE	CA AST, CA CERS HAZ WASTE, CA CERS TANKS, CA...	Higher	115, 0.022, East
B12	FARMER BOYS RESTAURA	27250 5TH ST	CA San Bern. Co. Permit	Higher	205, 0.039, South
C13	AMIGOS RECYCLING INC	27170 E 5TH ST	CA San Bern. Co. Permit	Lower	234, 0.044, SW
D14	ASTRO RENTAL EQUIPME	27111 E FIFTH ST	CA HIST UST	Lower	263, 0.050, SW
D15	HIGHLAND EQUIPMENT R	27111 E 5TH ST	RCRA NonGen / NLR	Lower	263, 0.050, SW
D16	FOOTHILL TOOL/EQUIP	27111 E 5TH ST	CA SWEEPS UST	Lower	263, 0.050, SW
C17	PETAS CAR CARE	27177 E 5TH ST A	RCRA NonGen / NLR	Lower	276, 0.052, SW
C18	PETA'S CAR CARE	27177 E 5TH ST	CA San Bern. Co. Permit	Lower	276, 0.052, SW
C19	PETA'S CAR CARE	27177 E 5TH ST A	CA CERS HAZ WASTE, CA HAZNET, CA CERS, CA HWTS	Lower	276, 0.052, SW
C20	D & M TRANSMISSION	27213 E 5TH ST	CA San Bern. Co. Permit	Lower	281, 0.053, SSW
B21	BECK'S AUTOMOTIVE	27221 5TH ST	CA San Bern. Co. Permit	Lower	282, 0.053, SSW
B22	D & M ENTERPRISES	27219 5TH ST	EDR Hist Auto	Lower	283, 0.054, SSW
B23	ADVANCED CAR CARE	27219 E 5TH ST	CA San Bern. Co. Permit	Lower	283, 0.054, SSW
C24	ASTRO RENTAL EQUIPME	27111 5TH ST	CA HIST UST	Lower	311, 0.059, SW
25	BETTY WALSH	27329 6TH STREET	RCRA NonGen / NLR	Higher	314, 0.059, NE
E26	MARY BETTEN PROPERTY	27213 5TH STREET	RCRA NonGen / NLR	Lower	372, 0.070, SSW
E27	D & M TRANSMISSIONS	27213 5TH ST	EDR Hist Auto	Lower	372, 0.070, SSW
E28	ADVANCED CAR CARE	27213 5TH ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Lower	372, 0.070, SSW
E29	ADVANCED CAR CARE	27213 5TH ST	RCRA NonGen / NLR	Lower	372, 0.070, SSW
F30	PENSKE	27056 5TH ST	RCRA NonGen / NLR	Lower	379, 0.072, WSW
B31	AMERICAN PRIDE PRINT	27239 5TH ST A	CA San Bern. Co. Permit	Higher	426, 0.081, South
G32	MATHESON TRUCKING IN	27356 5TH ST	RCRA NonGen / NLR	Higher	489, 0.093, ESE
G33	NINA LINCK	27356 5TH ST	CA SWEEPS UST, CA San Bern. Co. Permit, CA CERS	Higher	489, 0.093, ESE
H34	HCLM	7750 PALM AVE STE N	EDR Hist Auto	Higher	513, 0.097, NNE
H35	GREEN FROG	7750 PALM AVE UNIT K	CA San Bern. Co. Permit	Higher	513, 0.097, NNE
I36	SB PETROLEUM INC	27323 5TH ST	RCRA NonGen / NLR	Higher	522, 0.099, SSE
I37	ARCO AM PM #5617	27323 5TH ST	CA LUST, CA Cortese, CA HIST CORTESE, CA NPDES, CA...	Higher	522, 0.099, SSE
I38	BP NORTH AMERICA	27323 5TH ST	EDR Hist Auto	Higher	522, 0.099, SSE

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MAPPED SITES SUMMARY

Target Property Address:
27124-27280 MEINES ST
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Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
I39	SB PETROLEUM, INC #8	27323 5TH ST	CA CERS HAZ WASTE, CA CERS TANKS, CA HAZNET, CA...	Higher	522, 0.099, SSE
I40	SB PETROLEUM, INC #8	27323 5TH ST	CA UST	Higher	522, 0.099, SSE
I41	ARCO FACILITY NO 056	27323 5TH ST	RCRA-SQG, FINDS, ECHO	Higher	522, 0.099, SSE
I42	AM PM MINI MARKET #5	27323 5TH ST	CA UST	Higher	522, 0.099, SSE
43	MARY OEHLING	7774 DRUMMOND AVE	RCRA NonGen / NLR	Lower	547, 0.104, NW
E44	ROSA MARIAS INC	27229 5TH HIGHLAND	RCRA NonGen / NLR	Lower	579, 0.110, SSW
I45	WATER TREATMENT PLAN	27367 5TH ST	CA San Bern. Co. Permit	Higher	608, 0.115, SE
F46	CSR AIR CONDITIONING	27015 E 5TH ST	RCRA NonGen / NLR	Lower	637, 0.121, WSW
J47	ALAPALM ANIMAL HOSPI	8068 PALM AVE	CA HAZNET, CA San Bern. Co. Permit, CA HWTS	Higher	661, 0.125, South
K48	ALL VALLEY ENVIRONME	27381 5TH ST	RCRA NonGen / NLR	Higher	680, 0.129, SE
K49	BELL GARAGE & TOW SE	27381 5TH ST	CA HIST UST	Higher	680, 0.129, SE
K50	BELL GARAGE AND TOW	27381 EAST 5TH ST	CA HIST UST, CA San Bern. Co. Permit, CA HWTS	Higher	689, 0.130, SE
I51	SAFETY-KLEEN CORP	7979 PALM AVE	CA UST	Higher	710, 0.134, SSE
I52	SAFETY-KLEEN SYSTEMS	7979 PALM AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, US...	Higher	710, 0.134, SSE
I53	SAFETY-KLEEN SYSTEMS	7979 PALM AVE #E	CA ENVIROSTOR	Higher	710, 0.134, SSE
I54	SAFETY-KLEEN CORPORA	7979 PALM AVE	CA LUST, CA Cortese, CA HIST CORTESE, CA San Bern....	Higher	710, 0.134, SSE
I55	SAFETY-KLEEN SYSTEMS	7979 PALM AVE UNIT E	CA UST	Higher	710, 0.134, SSE
I56	SAFETY-KLEEN CORP	7979 PALM AVE	CA LUST, CA CERS HAZ WASTE, CA SWEEPS UST, CA HIST...	Higher	710, 0.134, SSE
L57	EJ MEYER	26999 E 5TH STREET	RCRA NonGen / NLR	Lower	724, 0.137, WSW
L58	MAYFLOWER CONTRACT S	26999 E 5TH STREET	RCRA-SQG, FINDS, ECHO	Lower	724, 0.137, WSW
L59	E.J. MEYER COMPANY	26999 E 5TH ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Lower	724, 0.137, WSW
J60	GMA GENERAL COLLISIO	27236 3RD ST	RCRA NonGen / NLR	Higher	757, 0.143, South
J61	ALL STAR AUTO CARE S	27236 3RD ST BLDG C	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Higher	757, 0.143, South
J62	MATHESON TRUCKING IN	27236 3RD ST BLDG B	RCRA NonGen / NLR	Higher	757, 0.143, South
J63	GMA GENERAL COLLISIO	27236 3RD ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Higher	757, 0.143, South
J64	ALL STAR AUTO CARE S	27236 3RD ST BLDG C	RCRA NonGen / NLR	Higher	757, 0.143, South
J65	AUTO TECH LEWIS	27236 3RD ST	CA San Bern. Co. Permit, CA HWTS	Higher	757, 0.143, South
J66	MATHESON TRUCKING IN	27236 3RD ST BLDG B	CA CERS HAZ WASTE, CA HAZNET, CA San Bern. Co....	Higher	757, 0.143, South
J67	ABSOLUTE KUSTOMZ	27236 3RD ST UNIT A	RCRA NonGen / NLR	Higher	757, 0.143, South
68	DUBOIS BETTY 2006 RE	27350 7TH ST	RCRA NonGen / NLR	Higher	766, 0.145, NE
69	ARMANDO YBARRA	27396 6TH ST	RCRA NonGen / NLR	Higher	776, 0.147, ENE
L70	MEYER CONSTRUCTORS	26999 5TH STREET	CA HIST UST, CA NPDES, CA CIWQS	Lower	790, 0.150, WSW
L71	MEYER CONSTRUCTORS	26999 5TH ST	CA HIST UST	Lower	790, 0.150, WSW
K72	MORRISON KNUDEN CORP	27400 E 5TH ST	CA HIST UST, FINDS, CA EMI, CA San Bern. Co....	Higher	795, 0.151, SE
K73	TRANSITION PROPERTIE	27400 5TH ST	RCRA NonGen / NLR	Higher	801, 0.152, SE
K74	KASLER CORPORATION	27400 5TH ST	CA HIST UST	Higher	801, 0.152, SE
K75	TRANSITION PROPERTIE	27400 5TH ST	RCRA NonGen / NLR	Higher	801, 0.152, SE
76	UNKNOWN PARTY	27114 3RD ST	RCRA NonGen / NLR	Lower	834, 0.158, SW
M77	SUN AUTOMOTIVE REPAI	27178 3RD ST UNIT B	CA San Bern. Co. Permit	Lower	836, 0.158, SSW

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MAPPED SITES SUMMARY

Target Property Address:
27124-27280 MEINES ST
HIGHLAND, CA 92346

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
M78	SUN AUTO REPAIR	27178 3RD ST	CA UST	Lower	836, 0.158, SSW
M79	RIOS BROS AUTOMOTIVE	27178 W 3RD ST	CA San Bern. Co. Permit	Lower	836, 0.158, SSW
M80	A & I AUTOMOTIVE REP	27114 E 3RD ST	CA San Bern. Co. Permit, CA HWTS	Lower	879, 0.166, SSW
N81	ROYAL COACH AUTO BOD	27180 E 3RD ST	RCRA NonGen / NLR	Higher	881, 0.167, South
N82	ROYAL COACH AUTO BOD	27180 E 3RD ST	CA San Bern. Co. Permit	Higher	881, 0.167, South
N83	WIRZ WHOLESALE SHOOT	27200 3RD	CA San Bern. Co. Permit	Higher	881, 0.167, South
N84	JAY'S AUTOBODY & REP	27200 3RD ST	RCRA NonGen / NLR	Higher	881, 0.167, South
N85	MUTE PERFORMANCE LLC	27192 3RD ST	RCRA NonGen / NLR	Higher	881, 0.167, South
O86	ORCO BLENDED PRODUCT	27347 E THIRD ST	CA San Bern. Co. Permit, CA CERS	Higher	886, 0.168, SSE
O87	PRO CAST PRODUCTS IN	27417 3RD ST	RCRA NonGen / NLR	Higher	938, 0.178, SSE
P88	PRO CAST PRODUCTS IN	27417 E 3RD ST	CA AST, CA CERS HAZ WASTE, CA CERS TANKS, CA San...	Higher	986, 0.187, SE
Q89	RAY'S AUTOREPAIR	27437 5TH ST STE 1	RCRA NonGen / NLR	Higher	992, 0.188, SE
Q90	HIGHLAND CYCLES	27437 5TH ST	CA CERS HAZ WASTE, CA HAZNET, CA CERS, CA HWTS	Higher	992, 0.188, SE
Q91	HIGHLAND CYCLES	27437 5TH ST	RCRA NonGen / NLR	Higher	992, 0.188, SE
Q92	EAST VALLEY CHOPPERS	27437 5TH ST STE 1	CA HAZNET, CA San Bern. Co. Permit, CA HWTS	Higher	992, 0.188, SE
Q93	RAYS AUTO REPAIR	27437 5TH ST	RCRA NonGen / NLR	Higher	992, 0.188, SE
Q94	JR AUTOMOTIVE	27437 5TH ST STE 1	RCRA NonGen / NLR	Higher	992, 0.188, SE
Q95	TSR PERFORMANCE	27437 5TH ST	RCRA NonGen / NLR	Higher	992, 0.188, SE
P96	ROBERTSONS READY MIX	27401 E 3RD	CA AST, CA SWEEPS UST	Higher	1017, 0.193, SE
P97	ROBERTSON'S READY MI	27401 3RD ST	RCRA NonGen / NLR	Higher	1017, 0.193, SE
P98	ROBERTSON'S READY MI	27401 3RD ST	CA HAULERS, CA CERS HAZ WASTE, CA CERS TANKS, CA...	Higher	1017, 0.193, SE
P99	ROBERTSON'S READY MI	27401 3RD ST	CA UST	Higher	1017, 0.193, SE
Q100	CHEPE'S AUTO BODY	27437 E 5TH ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Higher	1031, 0.195, SE
Q101	ORIGINAL BODY SHOP	27437 E 5TH ST UNIT	CA San Bern. Co. Permit	Higher	1031, 0.195, SE
Q102	AUSTIN ASTIN TRANSM	27437 EAST 5TH STREE	EDR Hist Auto	Higher	1031, 0.195, SE
Q103	TSR PERFORMANCE	27437 W 5TH ST STE 7	CA San Bern. Co. Permit	Higher	1031, 0.195, SE
P104	PROPARTS	27445 E 3RD STREET	CA San Bern. Co. Permit, CA CERS	Higher	1066, 0.202, SE
R105	ELITE LAWN & LANDSCA	26975 5TH ST	CA San Bern. Co. Permit	Lower	1094, 0.207, WSW
Q106	MILLER AUTOMOTIVE	27454 5TH ST	CA San Bern. Co. Permit, CA HWTS	Higher	1122, 0.213, ESE
Q107	ADVANCED AUTOMOTIVE	27454 E 5TH ST	CA San Bern. Co. Permit	Higher	1133, 0.215, SE
R108	S&S INLANDSTAR	26967 5TH ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Lower	1188, 0.225, WSW
R109	S&S MOTORS INC (DBA)	26967 5TH ST	RCRA NonGen / NLR	Lower	1188, 0.225, WSW
110	SANDRA HALL	27164 CYPRESS ST	RCRA NonGen / NLR	Lower	1243, 0.235, NNW
111	MASTER HALCO INC.	27474 5TH ST	CA San Bern. Co. Permit, CA CERS	Higher	1278, 0.242, ESE
S112	CITY OF HIGHLAND OPE	7935 CENTRAL AVE	RCRA NonGen / NLR	Lower	1313, 0.249, West
S113	CITY OF HIGHLAND-OPE	7935 CENTRAL	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Lower	1313, 0.249, West
114	NORTON AFB LANDFILL	I-10/US 395 FORMER N	CA SWF/LF, CA CERS	Lower	1574, 0.298, SW
115	FORMER SKEET RANGE N		UXO	Lower	2630, 0.498, SSW
116	CYPRESS II ELEMENTAR	BASELINE/SOUTH ALLEN	CA ENVIROSTOR, CA SCH	Lower	4223, 0.800, NNW

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
117	FORMER SKEET RANGE N		UXO	Lower	4880, 0.924, SW

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EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
KCB TOWERS INC 27260 MEINES ST HIGHLAND, CA 92346	FINDS Registry ID:: 110065525131 ECHO Registry ID: 110065525131	N/A
KCB TOWERS INC 27260 MEINES ST HIGHLAND, CA 92346	RCRA NonGen / NLR EPA ID:: CAL000248885	CAL000248885
DIEFFENBACHER, RONAL 27232 MEINES ST HIGHLAND, CA 92346	CA San Bern. Co. Permit Facility Status: INACTIVE Facility Id: FA0002736	N/A
KCB TOWERS INC 27260 MEINES HIGHLAND, CA 92346	CA HAZNET GEPAID: CAC002209065 CA HWTS	N/A
RON DIEFFENBACHER EQ 27232 MEINES ST HIGHLAND, CA 92346	CA HWTS	N/A
EQUIPMENT STORAGE 27256 MEINES ST HIGHLAND, CA 92346	CA HWTS	N/A
KCB TOWERS INC 27260 MEINES STREET HIGHLAND, CA 92346	CA AST Database: AST, Date of Government Version: 07/06/2016 CA NPDES Facility Status: Active CA San Bern. Co. Permit Facility Status: ACTIVE Facility Id: FA0004231 CA CIWQS CA CERS	N/A
KCB TOWERS INC 27260 MEINES ST HIGHLAND, CA 92346	CA CERS HAZ WASTE CA HAZNET GEPAID: CAL000248885 CA CERS CA HWTS	N/A

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EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ..... Federal Facility Site Information listing

Lists of Federal RCRA generators

RCRA-VSQG ..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

CA RESPONSE ..... State Response Sites

Lists of state and tribal leaking storage tanks

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land
CA CPS-SLIC ..... Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST ..... Underground Storage Tank Listing
INDIAN UST ..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

CA VCP ..... Voluntary Cleanup Program Properties

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INDIAN VCP ..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

CA BROWNFIELDS ..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT ..... Waste Management Unit Database
CA SWRCY ..... Recycler Database
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... Delisted National Clandestine Laboratory Register
CA HIST Cal-Sites ..... Historical Calsites Database
CA CDL ..... Clandestine Drug Labs
CA Toxic Pits ..... Toxic Pits Cleanup Act Sites
US CDL ..... National Clandestine Laboratory Register
CA PFAS ..... PFAS Contamination Site Location Listing
CA AQUEOUS FOAM ..... Former Fire Training Facility Assessments Listing

Local Lists of Registered Storage Tanks

CA FID UST ..... Facility Inventory Database

Local Land Records

CA LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
CA DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CA LDS ..... Land Disposal Sites Listing
CA MCS ..... Military Cleanup Sites Listing
CA SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
EPA WATCH LIST ..... EPA WATCH LIST

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EXECUTIVE SUMMARY

TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CA CUPA Listings	CUPA Resources List
CA DRYCLEANERS	Cleaner Facilities
CA ENF	Enforcement Action Listing
CA Financial Assurance	Financial Assurance Information Listing
CA ICE	ICE
CA HWT	Registered Hazardous Waste Transporter Database
CA MINES	Mines Site Location Listing
CA MWMP	Medical Waste Management Program Listing
CA PEST LIC	Pesticide Regulation Licenses Listing
CA PROC	Certified Processors Database
CA Notify 65	Proposition 65 Records
CA UIC	UIC Listing
CA UIC GEO	UIC GEO (GEOTRACKER)
CA WASTEWATER PITS	Oil Wastewater Pits Listing
CA WIP	Well Investigation Program Case List
CA MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT	PROJECT (GEOTRACKER)
CA WDR	Waste Discharge Requirements Listing
CA NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
CA OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
CA PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
CA SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
CA WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

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EXECUTIVE SUMMARY

EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF..... Recovered Government Archive Solid Waste Facilities List
CA RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 01/25/2022 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB Cerclis ID:: 902760 EPA Id: CA4570024345	***305 S TIPPECANOE AVE***	***S 1/8 - 1/4 (0.179 mi.)***	***0***	***39***

Lists of Federal sites subject to CERCLA removals and CERCLA orders

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 01/25/2022 has revealed that there is 1 SEMS

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site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB Site ID: 0902760 EPA Id: CA4570024345	***305 S TIPPECANOE AVE***	***S 1/8 - 1/4 (0.179 mi.)***	***0***	***39***

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 01/25/2022 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLEEN SYSTEMS Site ID: 0900292 EPA Id: CAT000613927	***7979 PALM AVENUE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I52***	***242***

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 02/28/2022 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 1/8 - 1/4 (0.179 mi.)***	***0***	***39***
SAFETY-KLEEN SYSTEMS EPA ID:: CAT000613927	***7979 PALM AVENUE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I52***	***242***

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EXECUTIVE SUMMARY

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 02/28/2022 has revealed that there are 2 RCRA-TSDF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 1/8 - 1/4 (0.179 mi.)***	***0***	***39***
SAFETY-KLEEN SYSTEMS EPA ID:: CAT000613927	***7979 PALM AVENUE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I52***	***242***

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 02/28/2022 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLEEN SYSTEMS EPA ID:: CAT000613927	***7979 PALM AVENUE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I52***	***242***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/28/2022 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 1/8 - 1/4 (0.179 mi.)***	***0***	***39***
ARCO FACILITY NO 056 EPA ID:: CAR000103671	***27323 5TH ST***	***SSE 0 - 1/8 (0.099 mi.)***	***I41***	***223***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAYFLOWER CONTRACT S	***26999 E 5TH STREET***	***WSW 1/8 - 1/4 (0.137 mi.)***	***L58***	***421***

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EXECUTIVE SUMMARY

EPA ID:: CAD982433757

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 11/19/2021 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345 EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 1/8 - 1/4 (0.179 mi.)***	***0***	***39***

US INST CONTROLS: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROLS list, as provided by EDR, and dated 11/19/2021 has revealed that there is 1 US INST CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 1/8 - 1/4 (0.179 mi.)***	***0***	***39***

Lists of state- and tribal hazardous waste facilities

CA ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 01/24/2022 has revealed that there are 2 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLEEN SYSTEMS Facility Id: 80001784 Status: No Further Action	7979 PALM AVE #E	SSE 1/8 - 1/4 (0.134 mi.)	I53	371

Lower Elevation	Address	Direction / Distance	Map ID	Page
CYPRESS II ELEMENTAR	***BASELINE/SOUTH ALLEN***	***NNW 1/2 - 1 (0.800 mi.)***	***116***	***577***

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Facility Id: 60000047
Status: Inactive - Withdrawn

Lists of state and tribal landfills and solid waste disposal facilities

CA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the CA SWF/LF list, as provided by EDR, has revealed that there is 1 CA SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON AFB LANDFILL	***I-10/US 395 FORMER N***	***SW 1/4 - 1/2 (0.298 mi.)***	***114***	***575***

Database: SWF/LF (SWIS), Date of Government Version: 11/08/2021
Facility ID: 36-AA-0312
Operational Status: Closed
Regulation Status: Unpermitted

Lists of state and tribal leaking storage tanks

CA LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA LUST list, as provided by EDR, has revealed that there are 3 CA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO AM PM #5617	***27323 5TH ST***	***SSE 0 - 1/8 (0.099 mi.)***	***I37***	***182***

Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: LUST, Date of Government Version: 12/06/2021
Facility Status: Case Closed
Global Id: T0607100636
Status: Completed - Case Closed
Global ID: T0607100636

SAFETY-KLEEN CORPORA	***7979 PALM AVE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I54***	***373***

Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Pollution Characterization
Global ID: T0607100369

SAFETY-KLEEN CORP	***7979 PALM AVE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I56***	***377***

Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0607100369
Status: Completed - Case Closed

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Lists of state and tribal registered storage tanks

CA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the CA UST list, as provided by EDR, has revealed that there are 6 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SB PETROLEUM, INC #8 Database: UST, Date of Government Version: 12/06/2021 Facility Id: FA0000883	27323 5TH ST	SSE 0 - 1/8 (0.099 mi.)	I40	223
AM PM MINI MARKET #5 Database: UST, Date of Government Version: 12/06/2021 Facility Id: 90020354	27323 5TH ST	SSE 0 - 1/8 (0.099 mi.)	I42	226
SAFETY-KLEEN CORP Database: UST, Date of Government Version: 12/06/2021 Facility Id: 86009594	7979 PALM AVE	SSE 1/8 - 1/4 (0.134 mi.)	I51	242
SAFETY-KLEEN SYSTEMS Database: UST, Date of Government Version: 12/06/2021 Facility Id: FA0005864	7979 PALM AVE UNIT E	SSE 1/8 - 1/4 (0.134 mi.)	I55	377
ROBERTSON'S READY MI Database: UST, Date of Government Version: 12/06/2021 Facility Id: 89018112	27401 3RD ST	SE 1/8 - 1/4 (0.193 mi.)	P99	541

Lower Elevation	Address	Direction / Distance	Map ID	Page
SUN AUTO REPAIR Database: UST, Date of Government Version: 12/06/2021 Facility Id: 48975	27178 3RD ST	SSW 1/8 - 1/4 (0.158 mi.)	M78	481

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, has revealed that there are 3 CA AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
H & H GENERAL CONTRA Database: AST, Date of Government Version: 07/06/2016	***7919 PALM AVE***	***E 0 - 1/8 (0.022 mi.)***	***A11***	***128***
PRO CAST PRODUCTS IN Database: AST, Date of Government Version: 07/06/2016	***27417 E 3RD ST***	***SE 1/8 - 1/4 (0.187 mi.)***	***P88***	***496***
ROBERTSONS READY MIX Database: AST, Date of Government Version: 07/06/2016	***27401 E 3RD***	***SE 1/8 - 1/4 (0.193 mi.)***	***P96***	***526***

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ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CA CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CA CERS HAZ WASTE list, as provided by EDR, and dated 01/18/2022 has revealed that there are 15 CA CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
H & H GENERAL CONTRA	*7919 PALM AVE*	*E 0 - 1/8 (0.022 mi.)*	*A11*	*128*
SB PETROLEUM, INC #8	*27323 5TH ST*	*SSE 0 - 1/8 (0.099 mi.)*	*I39*	*186*
SAFETY-KLEEN CORP	*7979 PALM AVE*	*SSE 1/8 - 1/4 (0.134 mi.)*	*I56*	*377*
ALL STAR AUTO CARE S	*27236 3RD ST BLDG C*	*S 1/8 - 1/4 (0.143 mi.)*	*J61*	*431*
GMA GENERAL COLLISIO	*27236 3RD ST*	*S 1/8 - 1/4 (0.143 mi.)*	*J63*	*441*
MATHESON TRUCKING IN	*27236 3RD ST BLDG B*	*S 1/8 - 1/4 (0.143 mi.)*	*J66*	*449*
PRO CAST PRODUCTS IN	*27417 E 3RD ST*	*SE 1/8 - 1/4 (0.187 mi.)*	*P88*	*496*
HIGHLAND CYCLES	*27437 5TH ST*	*SE 1/8 - 1/4 (0.188 mi.)*	*Q90*	*508*
ROBERTSON'S READY MI	*27401 3RD ST*	*SE 1/8 - 1/4 (0.193 mi.)*	*P98*	*530*
CHEPE'S AUTO BODY	*27437 E 5TH ST*	*SE 1/8 - 1/4 (0.195 mi.)*	*Q100*	*541*

Lower Elevation	Address	Direction / Distance	Map ID	Page
PETA'S CAR CARE	*27177 E 5TH ST A*	*SW 0 - 1/8 (0.052 mi.)*	*C19*	*146*
ADVANCED CAR CARE	*27213 5TH ST*	*SSW 0 - 1/8 (0.070 mi.)*	*E28*	*161*
E.J. MEYER COMPANY	*26999 E 5TH ST*	*WSW 1/8 - 1/4 (0.137 mi.)*	*L59*	*424*
S&S INLANDSTAR	*26967 5TH ST*	*WSW 1/8 - 1/4 (0.225 mi.)*	*R108*	*552*
CITY OF HIGHLAND-OPE	*7935 CENTRAL*	*W 1/8 - 1/4 (0.249 mi.)*	*S113*	*571*

Local Lists of Registered Storage Tanks

CA SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 4 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NINA LINCK Comp Number: 7356	*27356 5TH ST*	*ESE 0 - 1/8 (0.093 mi.)*	*G33*	*175*
SAFETY-KLEEN CORP Status: A Comp Number: 6282	*7979 PALM AVE*	*SSE 1/8 - 1/4 (0.134 mi.)*	*I56*	*377*
ROBERTSONS READY MIX Status: A Tank Status: A	*27401 E 3RD*	*SE 1/8 - 1/4 (0.193 mi.)*	*P96*	*526*

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Comp Number: 687

Lower Elevation	Address	Direction / Distance	Map ID	Page
FOOTHILL TOOL/EQUIP Status: A Tank Status: A Comp Number: 5957	27111 E 5TH ST	SW 0 - 1/8 (0.050 mi.)	D16	142

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 9 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BELL GARAGE & TOW SE Facility Id: 00000030362	27381 5TH ST	SE 1/8 - 1/4 (0.129 mi.)	K49	239
BELL GARAGE AND TOW	***27381 EAST 5TH ST***	***SE 1/8 - 1/4 (0.130 mi.)***	***K50***	***239***
SAFETY-KLEEN CORP Facility Id: 00000006282	***7979 PALM AVE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I56***	***377***
MORRISON KNUDEN CORP	***27400 E 5TH ST***	***SE 1/8 - 1/4 (0.151 mi.)***	***K72***	***467***
KASLER CORPORATION Facility Id: 00000019737	27400 5TH ST	SE 1/8 - 1/4 (0.152 mi.)	K74	474

Lower Elevation	Address	Direction / Distance	Map ID	Page
ASTRO RENTAL EQUIPME	27111 E FIFTH ST	SW 0 - 1/8 (0.050 mi.)	D14	139
ASTRO RENTAL EQUIPME Facility Id: 00000005957	27111 5TH ST	SW 0 - 1/8 (0.059 mi.)	C24	155
MEYER CONSTRUCTORS	***26999 5TH STREET***	***WSW 1/8 - 1/4 (0.150 mi.)***	***L70***	***463***
MEYER CONSTRUCTORS Facility Id: 00000059681	26999 5TH ST	WSW 1/8 - 1/4 (0.150 mi.)	L71	466

CA CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CA CERS TANKS list, as provided by EDR, and dated 01/18/2022 has revealed that there are 5 CA CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
H & H GENERAL CONTRA	***7919 PALM AVE***	***E 0 - 1/8 (0.022 mi.)***	***A11***	***128***
SB PETROLEUM, INC #8	***27323 5TH ST***	***SSE 0 - 1/8 (0.099 mi.)***	***I39***	***186***
SAFETY-KLEEN CORP	***7979 PALM AVE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I56***	***377***
PRO CAST PRODUCTS IN	***27417 E 3RD ST***	***SE 1/8 - 1/4 (0.187 mi.)***	***P88***	***496***
ROBERTSON'S READY MI	***27401 3RD ST***	***SE 1/8 - 1/4 (0.193 mi.)***	***P98***	***530***

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Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/28/2022 has revealed that there are 37 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
H & H GENERAL CONTRA	7919 PALM AVE	E 0 - 1/8 (0.022 mi.)	A10	125
BETTY WALSH	27329 6TH STREET	NE 0 - 1/8 (0.059 mi.)	25	155
MATHESON TRUCKING IN EPA ID:: CAL000346163	27356 5TH ST	ESE 0 - 1/8 (0.093 mi.)	G32	172
SB PETROLEUM INC EPA ID:: CAL000313282	27323 5TH ST	SSE 0 - 1/8 (0.099 mi.)	I36	179
ALL VALLEY ENVIRONME EPA ID:: CAL000263169	27381 5TH ST	SE 1/8 - 1/4 (0.129 mi.)	K48	236
GMA GENERAL COLLISIO EPA ID:: CAL000451428	27236 3RD ST	S 1/8 - 1/4 (0.143 mi.)	J60	429
MATHESON TRUCKING IN EPA ID:: CAL000350685	27236 3RD ST BLDG B	S 1/8 - 1/4 (0.143 mi.)	J62	439
ALL STAR AUTO CARE S EPA ID:: CAL000352747	27236 3RD ST BLDG C	S 1/8 - 1/4 (0.143 mi.)	J64	445
ABSOLUTE KUSTOMZ EPA ID:: CAL000394621	27236 3RD ST UNIT A	S 1/8 - 1/4 (0.143 mi.)	J67	455
DUBOIS BETTY 2006 RE	27350 7TH ST	NE 1/8 - 1/4 (0.145 mi.)	68	458
ARMANDO YBARRA	27396 6TH ST	ENE 1/8 - 1/4 (0.147 mi.)	69	460
TRANSITION PROPERTIE EPA ID:: CAC003058739	27400 5TH ST	SE 1/8 - 1/4 (0.152 mi.)	K73	472
TRANSITION PROPERTIE EPA ID:: CAC002972115	27400 5TH ST	SE 1/8 - 1/4 (0.152 mi.)	K75	475
ROYAL COACH AUTO BOD EPA ID:: CAL000433159	27180 E 3RD ST	S 1/8 - 1/4 (0.167 mi.)	N81	483
JAY'S AUTOBODY & REP EPA ID:: CAL000440094	27200 3RD ST	S 1/8 - 1/4 (0.167 mi.)	N84	486
MUTE PERFORMANCE LLC	27192 3RD ST	S 1/8 - 1/4 (0.167 mi.)	N85	488
PRO CAST PRODUCTS IN EPA ID:: CAL000317852	27417 3RD ST	SSE 1/8 - 1/4 (0.178 mi.)	O87	493
RAY'S AUTOREPAIR EPA ID:: CAL000445349	27437 5TH ST STE 1	SE 1/8 - 1/4 (0.188 mi.)	Q89	506
HIGHLAND CYCLES EPA ID:: CAL000271280	27437 5TH ST	SE 1/8 - 1/4 (0.188 mi.)	Q91	513
RAYS AUTO REPAIR	27437 5TH ST	SE 1/8 - 1/4 (0.188 mi.)	Q93	519
JR AUTOMOTIVE EPA ID:: CAL000394191	27437 5TH ST STE 1	SE 1/8 - 1/4 (0.188 mi.)	Q94	521
TSR PERFORMANCE	27437 5TH ST	SE 1/8 - 1/4 (0.188 mi.)	Q95	524
ROBERTSON'S READY MI	27401 3RD ST	SE 1/8 - 1/4 (0.193 mi.)	P97	527

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EPA ID:: CAL000168397

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST PILING, INC. EPA ID:: CAC003018162	27002 MEINES	W 0 - 1/8 (0.013 mi.)	9	123
HIGHLAND EQUIPMENT R EPA ID:: CAL000270616	27111 E 5TH ST	SW 0 - 1/8 (0.050 mi.)	D15	139
PETAS CAR CARE EPA ID:: CAL000428945	27177 E 5TH ST A	SW 0 - 1/8 (0.052 mi.)	C17	143
MARY BETTEN PROPERTY	27213 5TH STREET	SSW 0 - 1/8 (0.070 mi.)	E26	158
ADVANCED CAR CARE EPA ID:: CAL000390143	27213 5TH ST	SSW 0 - 1/8 (0.070 mi.)	E29	167
PENSKE EPA ID:: CAC003041416	27056 5TH ST	WSW 0 - 1/8 (0.072 mi.)	F30	169
MARY OEHLING EPA ID:: CAC003048261	7774 DRUMMOND AVE	NW 0 - 1/8 (0.104 mi.)	43	226
ROSA MARIAS INC	27229 5TH HIGHLAND	SSW 0 - 1/8 (0.110 mi.)	E44	229
CSR AIR CONDITIONING EPA ID:: CAL000256584	27015 E 5TH ST	WSW 0 - 1/8 (0.121 mi.)	F46	232
EJ MEYER EPA ID:: CAL000258671	26999 E 5TH STREET	WSW 1/8 - 1/4 (0.137 mi.)	L57	418
UNKNOWN PARTY	27114 3RD ST	SW 1/8 - 1/4 (0.158 mi.)	76	478
S&S MOTORS INC (DBA)	26967 5TH ST	WSW 1/8 - 1/4 (0.225 mi.)	R109	561
SANDRA HALL EPA ID:: CAC003052261	27164 CYPRESS ST	NNW 1/8 - 1/4 (0.235 mi.)	110	563
CITY OF HIGHLAND OPE EPA ID:: CAL000339766	7935 CENTRAL AVE	W 1/8 - 1/4 (0.249 mi.)	S112	569

2020 COR ACTION: The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

A review of the 2020 COR ACTION list, as provided by EDR, and dated 09/30/2017 has revealed that there is 1 2020 COR ACTION site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLEEN SYSTEMS EPA ID:: CAT000613927	***7979 PALM AVENUE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I52***	***242***

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ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 01/25/2022 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB	***305 S TIPPECANOE AVE***	***S 1/8 - 1/4 (0.179 mi.)***	***0***	***39***
EPA ID:: CA4570024345				

UXO: A listing of unexploded ordnance site locations

A review of the UXO list, as provided by EDR, and dated 12/31/2020 has revealed that there are 2 UXO sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FORMER SKEET RANGE N		SSW 1/4 - 1/2 (0.498 mi.)	115	577
FORMER SKEET RANGE N		SW 1/2 - 1 (0.924 mi.)	117	580

CA Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the CA Cortese list, as provided by EDR, and dated 12/16/2021 has revealed that there are 2 CA Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO AM PM #5617	***27323 5TH ST***	***SSE 0 - 1/8 (0.099 mi.)***	***I37***	***182***
Cleanup Status: COMPLETED - CASE CLOSED				
SAFETY-KLEEN CORPORA	***7979 PALM AVE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I54***	***373***
Cleanup Status: COMPLETED - CASE CLOSED				

CA HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO AM PM #5617	***27323 5TH ST***	***SSE 0 - 1/8 (0.099 mi.)***	***I37***	***182***
Reg Id: 083603647T				
SAFETY-KLEEN CORPORA	***7979 PALM AVE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I54***	***373***
Reg Id: 083602626T				

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CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 11/15/2021 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLEEN CORP EPA ID: CAT000613927 Cleanup Status: CLOSED	***7979 PALM AVE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I56***	***377***

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2018 has revealed that there is 1 NJ MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLEEN SYSTEMS EPA Id: CAT000613927	***7979 PALM AVENUE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I52***	***242***

San Bernardino County Fire Department Hazardous Materials Division.

A review of the CA San Bern. Co. Permit list, as provided by EDR, and dated 12/01/2021 has revealed that there are 41 CA San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
H & H GENERAL CONTRA Facility Status: ACTIVE Facility Id: FA0014693	***7919 PALM AVE***	***E 0 - 1/8 (0.022 mi.)***	***A11***	***128***
FARMER BOYS RESTAURA Facility Status: INACTIVE Facility Id: FA0012139	27250 5TH ST	S 0 - 1/8 (0.039 mi.)	B12	138
AMERICAN PRIDE PRINT Facility Status: INACTIVE Facility Id: FA0000909	27239 5TH ST A	S 0 - 1/8 (0.081 mi.)	B31	172
NINA LINCK Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0012757	***27356 5TH ST***	***ESE 0 - 1/8 (0.093 mi.)***	***G33***	***175***
GREEN FROG Facility Status: INACTIVE Facility Id: FA0013258	7750 PALM AVE UNIT K	NNE 0 - 1/8 (0.097 mi.)	H35	179
SB PETROLEUM, INC #8 Facility Status: ACTIVE Facility Id: FA0000883	***27323 5TH ST***	***SSE 0 - 1/8 (0.099 mi.)***	***I39***	***186***
WATER TREATMENT PLAN Facility Status: INACTIVE Facility Id: FA0008101	27367 5TH ST	SE 0 - 1/8 (0.115 mi.)	I45	231
ALAPALM ANIMAL HOSPI	***8068 PALM AVE***	***S 1/8 - 1/4 (0.125 mi.)***	***J47***	***234***

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Facility Status: INACTIVE Facility Id: FA0015012				
BELL GARAGE AND TOW Facility Status: INACTIVE Facility Id: FA0000841 Facility Id: FA0004186	***27381 EAST 5TH ST***	***SE 1/8 - 1/4 (0.130 mi.)***	***K50***	***239***
SAFETY-KLEEN CORPORA Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0005864	***7979 PALM AVE***	***SSE 1/8 - 1/4 (0.134 mi.)***	***I54***	***373***
ALL STAR AUTO CARE S Facility Status: ACTIVE Facility Id: FA0000835	***27236 3RD ST BLDG C***	***S 1/8 - 1/4 (0.143 mi.)***	***J61***	***431***
GMA GENERAL COLLISIO Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0015318	***27236 3RD ST***	***S 1/8 - 1/4 (0.143 mi.)***	***J63***	***441***
AUTO TECH LEWIS Facility Status: INACTIVE Facility Id: FA0004426	***27236 3RD ST***	***S 1/8 - 1/4 (0.143 mi.)***	***J65***	***448***
MATHESON TRUCKING IN Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0013210	***27236 3RD ST BLDG B***	***S 1/8 - 1/4 (0.143 mi.)***	***J66***	***449***
MORRISON KNUDEN CORP Facility Status: INACTIVE Facility Id: FA0004858	***27400 E 5TH ST***	***SE 1/8 - 1/4 (0.151 mi.)***	***K72***	***467***
ROYAL COACH AUTO BOD Facility Status: ACTIVE Facility Id: FA0017725	27180 E 3RD ST	S 1/8 - 1/4 (0.167 mi.)	N82	485
WIRZ WHOLESALE SHOOT Facility Status: INACTIVE Facility Id: FA0013279	27200 3RD	S 1/8 - 1/4 (0.167 mi.)	N83	486
ORCO BLENDED PRODUCT Facility Status: ACTIVE Facility Id: FA0014140	***27347 E THIRD ST***	***SSE 1/8 - 1/4 (0.168 mi.)***	***O86***	***491***
PRO CAST PRODUCTS IN Facility Status: ACTIVE Facility Id: FA0005433	***27417 E 3RD ST***	***SE 1/8 - 1/4 (0.187 mi.)***	***P88***	***496***
EAST VALLEY CHOPPERS Facility Status: INACTIVE Facility Id: FA0015988	***27437 5TH ST STE 1***	***SE 1/8 - 1/4 (0.188 mi.)***	***Q92***	***516***
ROBERTSON'S READY MI Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0005772	***27401 3RD ST***	***SE 1/8 - 1/4 (0.193 mi.)***	***P98***	***530***
CHEPE'S AUTO BODY Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0013893	***27437 E 5TH ST***	***SE 1/8 - 1/4 (0.195 mi.)***	***Q100***	***541***
ORIGINAL BODY SHOP	27437 E 5TH ST UNIT	SE 1/8 - 1/4 (0.195 mi.)	Q101	546

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Facility Status: INACTIVE Facility Id: FA0005121				
TSR PERFORMANCE Facility Status: ACTIVE Facility Id: FA0018653	27437 W 5TH ST STE 7	SE 1/8 - 1/4 (0.195 mi.)	Q103	546
PROPARTS Facility Status: ACTIVE Facility Id: FA0013071	***27445 E 3RD STREET***	***SE 1/8 - 1/4 (0.202 mi.)***	***P104***	***547***
MILLER AUTOMOTIVE Facility Status: INACTIVE Facility Id: FA0007549	***27454 5TH ST***	***ESE 1/8 - 1/4 (0.213 mi.)***	***Q106***	***550***
ADVANCED AUTOMOTIVE Facility Status: INACTIVE Facility Id: FA0008322	27454 E 5TH ST	SE 1/8 - 1/4 (0.215 mi.)	Q107	551
MASTER HALCO INC. Facility Status: ACTIVE Facility Id: FA0018408	***27474 5TH ST***	***ESE 1/8 - 1/4 (0.242 mi.)***	***111***	***566***

Lower Elevation	Address	Direction / Distance	Map ID	Page
AMIGOS RECYCLING INC Facility Status: INACTIVE Facility Id: FA0011674	27170 E 5TH ST	SW 0 - 1/8 (0.044 mi.)	C13	138
PETA'S CAR CARE Facility Status: ACTIVE Facility Id: FA0005295	27177 E 5TH ST	SW 0 - 1/8 (0.052 mi.)	C18	145
D & M TRANSMISSION Facility Status: INACTIVE Facility Id: FA0007936	27213 E 5TH ST	SSW 0 - 1/8 (0.053 mi.)	C20	152
BECK'S AUTOMOTIVE Facility Status: INACTIVE Facility Id: FA0001409	27221 5TH ST	SSW 0 - 1/8 (0.053 mi.)	B21	153
ADVANCED CAR CARE Facility Status: INACTIVE Facility Id: FA0014347 Facility Id: FA0002602	27219 E 5TH ST	SSW 0 - 1/8 (0.054 mi.)	B23	154
ADVANCED CAR CARE Facility Status: ACTIVE Facility Id: FA0015286	***27213 5TH ST***	***SSW 0 - 1/8 (0.070 mi.)***	***E28***	***161***
E.J. MEYER COMPANY Facility Status: ACTIVE Facility Id: FA0012324	***26999 E 5TH ST***	***WSW 1/8 - 1/4 (0.137 mi.)***	***L59***	***424***
SUN AUTOMOTIVE REPAI Facility Status: INACTIVE Facility Id: FA0006507	27178 3RD ST UNIT B	SSW 1/8 - 1/4 (0.158 mi.)	M77	480
RIOS BROS AUTOMOTIVE Facility Status: INACTIVE Facility Id: FA0017326	27178 W 3RD ST	SSW 1/8 - 1/4 (0.158 mi.)	M79	481
A & I AUTOMOTIVE REP Facility Status: INACTIVE	***27114 E 3RD ST***	***SSW 1/8 - 1/4 (0.166 mi.)***	***M80***	***482***

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Facility Id: FA0000045				
ELITE LAWN & LANDSCA Facility Status: INACTIVE Facility Id: FA0002894	26975 5TH ST	WSW 1/8 - 1/4 (0.207 mi.)	R105	549
S&S INLANDSTAR Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0015635 Facility Id: FA0010276 Facility Id: FA0004600	***26967 5TH ST***	***WSW 1/8 - 1/4 (0.225 mi.)***	***R108***	***552***
CITY OF HIGHLAND-OPE Facility Status: ACTIVE Facility Id: FA0011950	***7935 CENTRAL***	***W 1/8 - 1/4 (0.249 mi.)***	***S113***	***571***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 5 EDR Hist Auto sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HCLM	7750 PALM AVE STE N	NNE 0 - 1/8 (0.097 mi.)	H34	179
BP NORTH AMERICA	27323 5TH ST	SSE 0 - 1/8 (0.099 mi.)	I38	186
AUSTIN ASTIN TRANSM	27437 EAST 5TH STREE	SE 1/8 - 1/4 (0.195 mi.)	Q102	546

Lower Elevation	Address	Direction / Distance	Map ID	Page
D & M ENTERPRISES	27219 5TH ST	SSW 0 - 1/8 (0.054 mi.)	B22	153
D & M TRANSMISSIONS	27213 5TH ST	SSW 0 - 1/8 (0.070 mi.)	E27	160

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EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
CIMA ROAD MINE WASTE SITE	SEMS
ALABAMA STREET ILLEGAL DISPOSAL SI	CA SWF/LF

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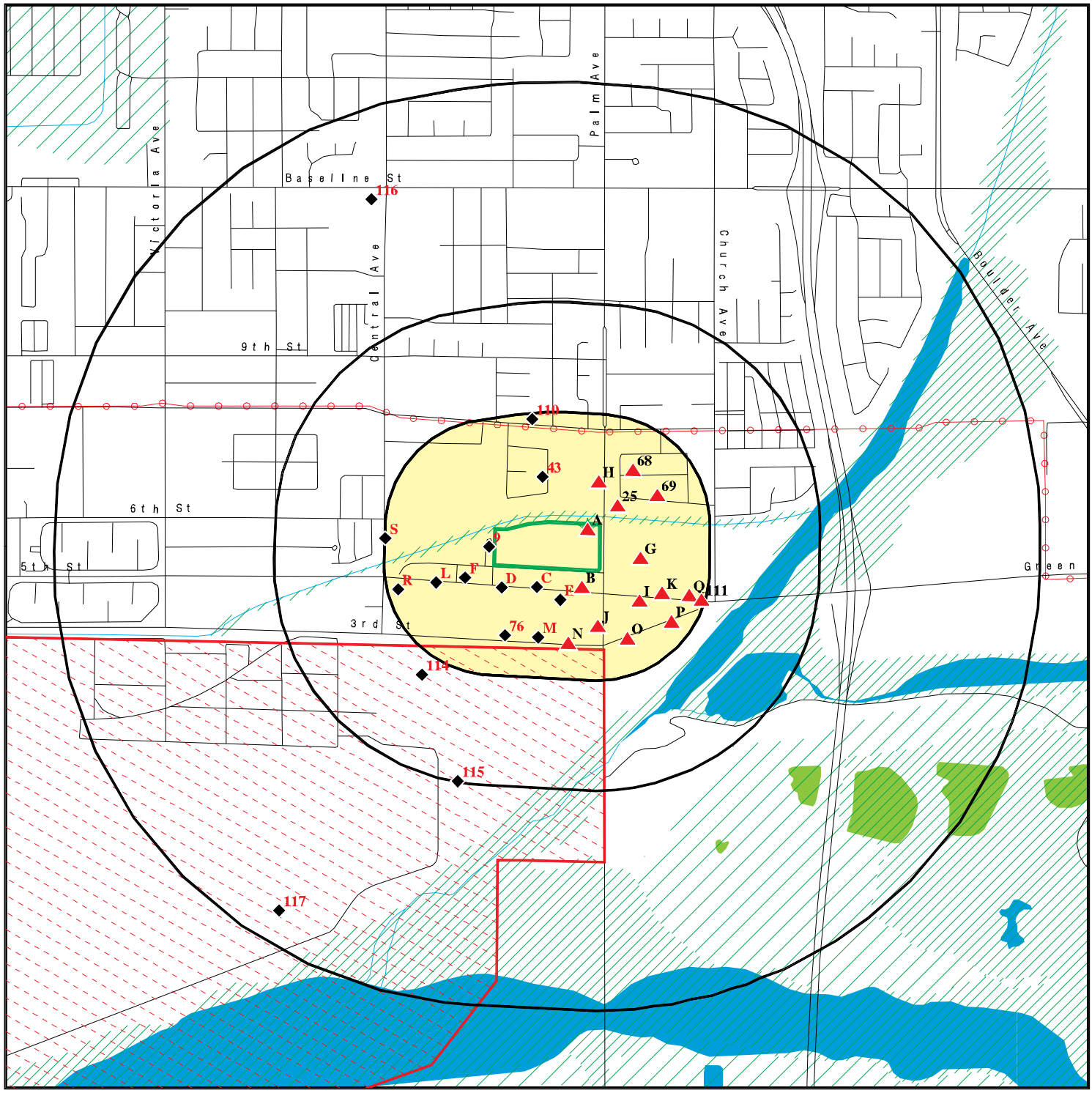
OVERVIEW MAP - 6958529.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Lovett Highland	CLIENT:	Ramboll
ADDRESS:	27124-27280 Meines St Highland CA 92346	CONTACT:	Kelly Chen
		INQUIRY #:	6958529.2s
LAT/LONG:	34.110006 / 117.209428	DATE:	April 28, 2022 9:39 am

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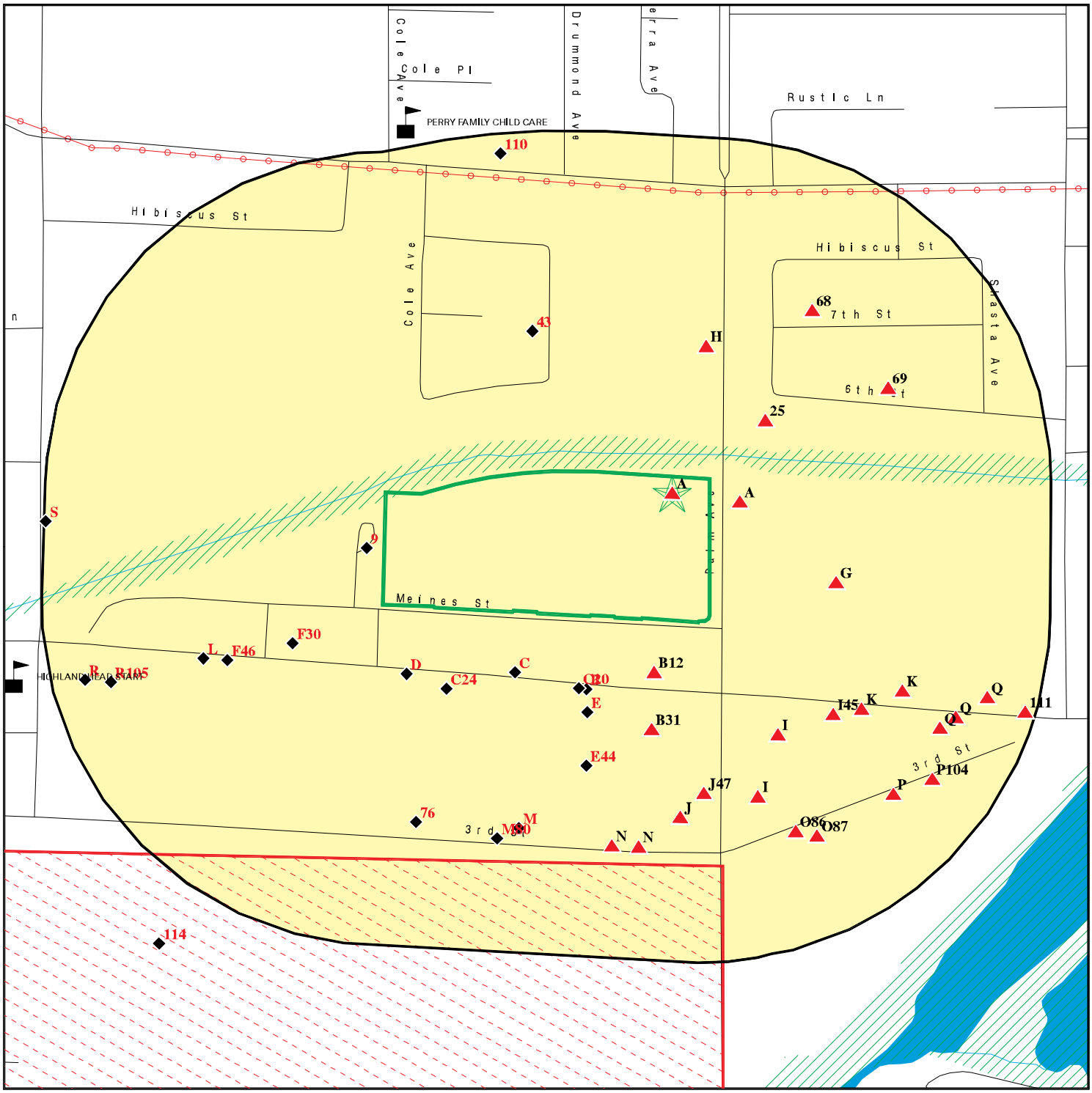
DETAIL MAP - 6958529.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Lovett Highland	CLIENT:	Ramboll
ADDRESS:	27124-27280 Meines St Highland CA 92346	CONTACT:	Kelly Chen
		INQUIRY #:	6958529.2s
LAT/LONG:	34.110006 / 117.209428	DATE:	April 28, 2022 9:40 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	1	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	1	0	NR	NR	1
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	2	0	0	NR	2
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	2	0	NR	NR	2
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		1	2	NR	NR	NR	3
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	1	0	NR	NR	1
US INST CONTROLS	0.500		0	1	0	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
CA RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
CA ENVIROSTOR	1.000		0	1	0	1	NR	2
Lists of state and tribal landfills and solid waste disposal facilities								
CA SWF/LF	0.500		0	0	1	NR	NR	1

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
CA LUST	0.500		1	2	0	NR	NR	3
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		2	4	NR	NR	NR	6
CA AST	0.250	1	1	2	NR	NR	NR	4
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
CA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	0	NR	0
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
CA CERS HAZ WASTE	0.250	1	4	11	NR	NR	NR	16
US CDL	0.001		0	NR	NR	NR	NR	0
CA PFAS	0.500		0	0	0	NR	NR	0
CA AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		2	2	NR	NR	NR	4
CA HIST UST	0.250		2	7	NR	NR	NR	9
CA FID UST	0.250		0	0	NR	NR	NR	0

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA CERS TANKS	0.250		2	3	NR	NR	NR	5
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	13	24	NR	NR	NR	38
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	1	NR	NR	NR	1
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	1	0	0	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
ECHO	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	1	1	NR	2
DOCKET HWC	TP		NR	NR	NR	NR	NR	0

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA Cortese	0.500		1	1	0	NR	NR	2
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001	2	0	NR	NR	NR	NR	2
CA ICE	TP		NR	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		1	1	0	NR	NR	2
CA HWP	1.000		0	1	0	0	NR	1
CA HWT	0.250		0	0	NR	NR	NR	0
NJ MANIFEST	0.250		0	1	NR	NR	NR	1
CA MINES	TP		NR	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001	1	0	NR	NR	NR	NR	1
CA San Bern. Co. Permit	0.250	2	13	28	NR	NR	NR	43
CA PEST LIC	TP		NR	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
CA UIC	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	TP		NR	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
CA PROJECT	TP		NR	NR	NR	NR	NR	0
CA WDR	TP		NR	NR	NR	NR	NR	0
CA CIWQS	TP	1	NR	NR	NR	NR	NR	1
CA CERS	TP	2	NR	NR	NR	NR	NR	2
CA NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
CA OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
CA PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
CA SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
CA WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
CA HWTS	TP	4	NR	NR	NR	NR	NR	4
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.250		4	1	NR	NR	NR	5
EDR Hist Cleaner	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	0.001		0	NR	NR	NR	NR	0

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		17	47	103	2	2	0	171

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

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A1 Target Property **KCB TOWERS INC**
27260 MEINES ST
HIGHLAND, CA 92346

FINDS **1023263061**
ECHO **N/A**

Site 1 of 10 in cluster A

Actual: 1192 ft.

FINDS:
Registry ID: 110065525131

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1023263061
Registry ID:	110065525131
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110065525131
Name:	KCB TOWERS INC
Address:	27260 MEINES ST
City,State,Zip:	HIGHLAND, CA 92346

A2 Target Property **KCB TOWERS INC**
27260 MEINES ST
HIGHLAND, CA 92346

RCRA NonGen / NLR **1024802715**
CAL000248885

Site 2 of 10 in cluster A

Actual: 1192 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20020328
Handler Name:	KCB TOWERS INC	
Handler Address:		27260 MEINES ST
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAL000248885
Contact Name:		ANISSA STOECKER
Contact Address:		27260 MEINES ST
Contact City,State,Zip:		HIGHLAND, CA 92346
Contact Telephone:		909-862-0322
Contact Fax:		909-864-0653
Contact Email:		ANISSA@KCBT.BIZ
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified

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KCB TOWERS INC (Continued) **1024802715**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 100
Mailing City,State,Zip:	HIGHLAND, CA 92346-0000
Owner Name:	KCB TOWERS INC
Owner Type:	Other
Operator Name:	ANISSA STOECKER
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No

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KCB TOWERS INC (Continued) **1024802715**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ANISSA STOECKER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27260 MEINES ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-0322
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	KCB TOWERS INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27260 MEINES ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-0000
Owner/Operator Telephone:	909-862-0322
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20020328
Handler Name: KCB TOWERS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	23591
NAICS Description:	STRUCTURAL STEEL ERECTION CONTRACTORS

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KCB TOWERS INC (Continued) **1024802715**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A3 **DIEFFENBACHER, RONALD A** **CA San Bern. Co. Permit** **S106910803**
Target **27232 MEINES ST** **N/A**
Property **HIGHLAND, CA 92346**

Site 3 of 10 in cluster A

Actual: **1192 ft.**

San Bern. Co. Permit:
Name: DIEFFENBACHER, RONALD A
Address: 27232 MEINES ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0002736
Owner: DIEFFENBACHER, RONALD A
Permit Number: PT0008813
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/2002

Name: DIEFFENBACHER, RONALD A
Address: 27232 MEINES ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0002736
Owner: DIEFFENBACHER, RONALD A
Permit Number: PT0008814
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2002

A4 **KCB TOWERS INC** **CA HAZNET** **S112903977**
Target **27260 MEINES** **CA HWTS** **N/A**
Property **HIGHLAND, CA 92346**

Site 4 of 10 in cluster A

Actual: **1192 ft.**

HAZNET:
Name: KCB TOWERS INC
Address: 27260 MEINES
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 923460000
Contact: GARTH BOGH
Telephone: 9098620322
Mailing Name: Not reported
Mailing Address: 27260 MEINES

Year: 2000
Gepaid: CAC002209065
TSD EPA ID: CAD008252405

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KCB TOWERS INC (Continued) **S112903977**

CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	R01 - Recycler
Tons:	0.374

Additional Info:

Year:	2000
Gen EPA ID:	CAC002209065
Shipment Date:	20000725
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000801
Manifest ID:	20539280
Trans EPA ID:	CAD982403198
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.374
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	KCB TOWERS INC
Address:	27260 MEINES
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAC002209065
Inactive Date:	06/11/2001
Create Date:	07/19/2000
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	27260 MEINES
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923460000
Owner Name:	KCB TOWERS INC
Owner Address:	27260 MEINES
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 923460000
Contact Name:	GARTH BOGH
Contact Address:	27260 MEINES
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 923460000
Facility Status:	Inactive
Facility Type:	TEMPORARY

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KCB TOWERS INC (Continued) **S112903977**

Category: STATE
Latitude: 34.108592
Longitude: -117.209585

A5 **RON DIEFFENBACHER EQUIPMENT** **CA HWTS** **S124572658**
Target **27232 MEINES ST** **N/A**
Property **HIGHLAND, CA 92346**

Site 5 of 10 in cluster A

Actual: **1192 ft.**

HWTS:
Name: RON DIEFFENBACHER EQUIPMENT
Address: 27232 MEINES ST
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346
EPA ID: CAC002557205
Inactive Date: 08/19/2003
Create Date: 10/04/2002
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 27232 MEINES ST
Mailing Address 2: Not reported
Mailing City,State,Zip: HIGHLAND, CA 92346
Owner Name: RON DIEFFENBACHER
Owner Address: 27232 MEINES ST
Owner Address 2: Not reported
Owner City,State,Zip: HIGHLAND, CA 92346
Contact Name: RON DIEFFENBACHER - OWNER
Contact Address: 27232 MEINES ST
Contact Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 34.10862
Longitude: -117.210172

A6 **EQUIPMENT STORAGE** **CA HWTS** **S124833955**
Target **27256 MEINES ST** **N/A**
Property **HIGHLAND, CA 92346**

Site 6 of 10 in cluster A

Actual: **1192 ft.**

HWTS:
Name: EQUIPMENT STORAGE
Address: 27256 MEINES ST
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346
EPA ID: CAL000250323
Inactive Date: 06/30/2008
Create Date: 04/17/2002
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 456
Mailing Address 2: Not reported
Mailing City,State,Zip: HIGHLAND, CA 92346

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EQUIPMENT STORAGE (Continued) **S124833955**

Owner Name:	MARK J MAZZULLA
Owner Address:	28840 OAK RIDGE RD
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 92346
Contact Name:	MARK MAZZULLA
Contact Address:	27232 MEINES
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.108695
Longitude:	-117.209663

NAICS:

EPA ID:	CAL000250323
Create Date:	2002-04-17 15:27:15.090
NAICS Code:	23593
NAICS Description:	Excavation Contractors
Issued EPA ID Date:	2002-04-17 15:27:15.04300
Inactive Date:	2008-06-30 00:00:00
Facility Name:	EQUIPMENT STORAGE
Facility Address:	27256 MEINES ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92346

A7
Target Property
Actual: 1192 ft.

KCB TOWERS INC
27260 MEINES STREET
HIGHLAND, CA 92346

Site 7 of 10 in cluster A

CA AST **S104767526**
CA NPDES **N/A**
CA San Bern. Co. Permit
CA CIWQS
CA CERS

AST:

Name:	KCB TOWERS INC
Address:	27260 MEINES ST
City/Zip:	HIGHLAND,92346
Certified Unified Program Agencies:	Not reported
Owner:	KCB TOWERS, INC.
Total Gallons:	Not reported
CERSID:	10041079
Facility ID:	FA0004231
Business Name:	KCB TOWERS INC
Phone:	(909) 862-0322
Fax:	(909) 864-0653
Mailing Address:	P.O. BOX 100
Mailing Address City:	HIGHLAND
Mailing Address State:	CA
Mailing Address Zip Code:	92346
Operator Name:	KCB TOWERS, INC
Operator Phone:	(909)862-0322
Owner Phone:	(909) 841-3159
Owner Mail Address:	P.O. BOX 100
Owner State:	CA
Owner Zip Code:	92346

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KCB TOWERS INC (Continued) **S104767526**

Owner Country:	United States
Property Owner Name:	LYNN BOGH
Property Owner Phone:	909-862-0322
Property Owner Mailing Address:	P.O. BOX 100
Property Owner City:	HIGHLAND
Property Owner Stat :	CA
Property Owner Zip Code:	92346
Property Owner Country:	United States
EPAID:	CAL000248885

NPDES:

Name:	KCB TOWERS INC
Address:	27260 MEINES STREET
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	213576
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 36I016349
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/07/2001
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	27260 Meines Street
Discharge Name:	KCB Towers Inc
Discharge City:	Highland
Discharge State:	California
Discharge Zip:	92346
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213576
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I016349
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/07/2001
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	KCB Towers Inc

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KCB TOWERS INC (Continued) **S104767526**

Discharge Address:	27260 Meines Street
Discharge City:	Highland
Discharge State:	California
Discharge Zip:	92346
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported

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KCB TOWERS INC (Continued) **S104767526**

Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213576
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I016349
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	02/07/2001
Status:	Active
Status Date:	02/07/2001
Place Size:	2.38
Place Size Unit:	Acres
Contact:	Greg Bogh
Contact Title:	Vice President
Contact Phone:	909-862-0322
Contact Phone Ext:	Not reported
Contact Email:	greg@kcbt.biz
Operator Name:	KCB Towers Inc
Operator Address:	27260 Meines Street
Operator City:	Highland
Operator State:	California
Operator Zip:	92346
Operator Contact:	Greg Bogh
Operator Contact Title:	Vice President
Operator Contact Phone:	909-862-0322
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	greg@kcbt.biz
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-862-0322
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported

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KCB TOWERS INC (Continued) **S104767526**

Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	City Creek Channel
Certifier:	Lynn Bogh
Certifier Title:	President
Certification Date:	18-JUL-15
Primary Sic:	3441-Fabricated Structural Metal
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	KCB TOWERS INC
Address:	27260 MEINES STREET
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I016349
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	02/07/2001
Operator Name:	KCB Towers Inc
Operator Address:	27260 Meines Street
Operator City:	Highland
Operator State:	California
Operator Zip:	92346

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0

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KCB TOWERS INC (Continued) **S104767526**

Region:	8
Regulatory Measure ID:	213576
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I016349
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/07/2001
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	KCB Towers Inc
Discharge Address:	27260 Meines Street
Discharge City:	Highland
Discharge State:	California
Discharge Zip:	92346
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported

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KCB TOWERS INC (Continued) **S104767526**

Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213576
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I016349
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	02/07/2001
Status:	Active
Status Date:	02/07/2001
Place Size:	2.38
Place Size Unit:	Acres
Contact:	Greg Bogh
Contact Title:	Vice President
Contact Phone:	909-862-0322
Contact Phone Ext:	Not reported
Contact Email:	greg@kcbt.biz
Operator Name:	KCB Towers Inc
Operator Address:	27260 Meines Street
Operator City:	Highland
Operator State:	California
Operator Zip:	92346
Operator Contact:	Greg Bogh
Operator Contact Title:	Vice President
Operator Contact Phone:	909-862-0322
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	greg@kcbt.biz
Operator Type:	Private Business

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KCB TOWERS INC (Continued) **S104767526**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	909-862-0322
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	City Creek Channel
Certifier:	Lynn Bogh
Certifier Title:	President
Certification Date:	18-JUL-15
Primary Sic:	3441-Fabricated Structural Metal
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	KCB TOWERS INC
Address:	27260 MEINES ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0004231
Owner:	KCB TOWERS, INC.
Permit Number:	PT0007949
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	05/31/2022

Name:	KCB TOWERS INC
Address:	27260 MEINES ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0004231
Owner:	KCB TOWERS, INC.
Permit Number:	PT0007950
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE

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KCB TOWERS INC (Continued) **S104767526**

Expiration Date: 05/31/2022

CIWQS:

Name:	KCB TOWERS INC
Address:	27260 MEINES STREET
City,State,Zip:	HIGHLAND, CA 92346
Agency:	KCB Towers Inc
Agency Address:	27260 Meines Street, Highland, CA 92346
Place/Project Type:	Industrial - Fabricated Structural Metal
SIC/NAICS:	3441
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I016349
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	02/07/2001
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.10859
Longitude:	-117.20958

CERS:

Name:	KCB TOWERS INC
Address:	27260 MEINES STREET
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	534920
CERS ID:	234697
CERS Description:	Industrial Facility Storm Water

Violations:

Site ID:	534920
Site Name:	KCB Towers Inc
Violation Date:	07-01-2014
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	2013-2014 annual report was not received on 7/1/2014. First Notice of Non-Compliance is sent out on 8/7/2014 via certified mail, with return receipt, along with a regular mail as a copy to owner's address.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS,

Site ID:	534920
Site Name:	KCB Towers Inc
Violation Date:	07-01-2001
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient Report
Violation Notes:	RECEIVED THE ANNAUL REPORT

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KCB TOWERS INC (Continued) **S104767526**

Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 534920
Site Name: KCB Towers Inc
Violation Date: 07-25-2011
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: 2010-2011 Annual Report non-submission: Annual report was received by the Regional Board or the State Board by 07/01/2011. 1st Notice of Non-Compliance sent out to facility address, and a copy letter sent to the owner, provided in the SMARTS database, on 07/25/2011.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 534920
Site Name: KCB Towers Inc
Violation Date: 08-07-2008
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2007-2008 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 534920
Site Name: KCB Towers Inc
Violation Date: 07-01-2001
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: RECEIVED THE ANNUAL REPORT
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 534920
Site Name: KCB Towers Inc
Violation Date: 08-01-2001
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: RECEIVED THE ANNUAL REPORT
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Site ID: 534920
Site Name: KCB Towers Inc
Violation Date: 07-01-2013
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit Annual Report for the reporting year 2012-2013 by July 1, 2013. Annual Report 2012-2013 1st Notice of Non-Compliance was sent out on July 31, 2013.
Violation Division: Water Boards
Violation Program: INDSTW

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KCB TOWERS INC (Continued) **S104767526**

Violation Source: SMARTS,

Enforcement Action:
Site ID: 534920
Site Name: KCB Towers Inc
Site Address: 27260 MEINES STREET
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-25-2011
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 2010-2011 Annual Report non-submission: Annual report was received by the Regional Board or the State Board by 07/01/2011. 1st Notice of Non-Compliance sent out to facility address, and a copy letter sent to the owner, provided in the SMARTS database, on 07/25/2011.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 534920
Site Name: KCB Towers Inc
Site Address: 27260 MEINES STREET
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-27-2001
Enf Action Type: Staff Enforcement Letter
Enf Action Description: Staff Enforcement Letter
Enf Action Notes: RECEIVED THE REPORT
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 534920
Site Name: KCB Towers Inc
Site Address: 27260 MEINES STREET
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-31-2013
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: Site has not submitted the 2012-2013 annual report by 07/01/2013. - 1st Notice of Non-Compliance sent on 07/31/2013, via certified mail to facility, CC to owner.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Site ID: 534920
Site Name: KCB Towers Inc
Site Address: 27260 MEINES STREET
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 08-07-2008
Enf Action Type: Notice of Non-Compliance for Non-Filers
Enf Action Description: Notice of Non-Compliance for Non-Filers
Enf Action Notes: Failure to submit Annual Report for the reporting year 2007-2008 before July 1, 2008. Annual Report 2007-2008 Notice of Non-Compliance

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KCB TOWERS INC (Continued) **S104767526**

	was sent out on August 7, 2008.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	534920
Site Name:	KCB Towers Inc
Site Address:	27260 MEINES STREET
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	08-07-2014
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	2013-2014 annual report was not received on 7/1/2014. First Notice of Non-Compliance is sent out on 8/7/2014 via certified mail, with return receipt, along with a regular mail as a copy to owner's address.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,
Site ID:	534920
Site Name:	KCB Towers Inc
Site Address:	27260 MEINES STREET
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	08-29-2001
Enf Action Type:	Staff Enforcement Letter
Enf Action Description:	Staff Enforcement Letter
Enf Action Notes:	RECEIVED THE REPORT
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS,

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	KCB Towers Inc
Entity Title:	Operator
Affiliation Address:	27260 Meines Street
Affiliation City:	Highland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,

A8
Target Property
Actual: 1192 ft.

KCB TOWERS INC
27260 MEINES ST
HIGHLAND, CA 92346

CA CERS HAZ WASTE **S113118253**
CA HAZNET **N/A**
CA CERS
CA HWTS

Site 8 of 10 in cluster A

CERS HAZ WASTE:

Name:	KCB TOWERS INC
Address:	27260 MEINES ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	395756
CERS ID:	10041079

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KCB TOWERS INC (Continued) **S113118253**

CERS Description: Hazardous Waste Generator

HAZNET:

Name:	KCB TOWERS INC
Address:	27260 MEINES ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 923460000
Contact:	ANISSA STOECKER
Telephone:	9098620322
Mailing Name:	Not reported
Mailing Address:	PO BOX 100
Year:	2019
Gepaid:	CAL000248885
TSD EPA ID:	CAT080013352
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.12920
Year:	2017
Gepaid:	CAL000248885
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.5
Year:	2015
Gepaid:	CAL000248885
TSD EPA ID:	AZR000501510
CA Waste Code:	351 - Organic solids with halogens
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2
Year:	2015
Gepaid:	CAL000248885
TSD EPA ID:	CAD008252405
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.3
Year:	2009
Gepaid:	CAL000248885
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2
Year:	2009
Gepaid:	CAL000248885
TSD EPA ID:	TXD077603371
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.125

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KCB TOWERS INC (Continued) **S113118253**

Year:	2009
Gepaid:	CAL000248885
TSD EPA ID:	TXD077603371
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.325
Year:	2005
Gepaid:	CAL000248885
TSD EPA ID:	CAT080033681
CA Waste Code:	352 - Other organic solids
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0.75

Additional Info:

Year:	2015
Gen EPA ID:	CAL000248885
Shipment Date:	20150118
Creation Date:	6/26/2015 22:15:23
Receipt Date:	20150129
Manifest ID:	011398962JJK
Trans EPA ID:	CAL000263169
Trans Name:	ALL VALLEY ENVIRONMENTAL
Trans 2 EPA ID:	CAD980585293
Trans 2 Name:	INDUSTRIAL WASTE UTILIZATION
TSDF EPA ID:	AZR000501510
Trans Name:	AA SYDCOL LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	351 - Organic solids with halogens
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150118
Creation Date:	6/26/2015 22:15:23
Receipt Date:	20150129
Manifest ID:	013537430JJK
Trans EPA ID:	CAL000263169
Trans Name:	ALL VALLEY ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics

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KCB TOWERS INC (Continued) **S113118253**

RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAL000248885
Shipment Date:	20091005
Creation Date:	11/25/2009 18:30:45
Receipt Date:	20091015
Manifest ID:	005863402JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090916
Creation Date:	3/5/2010 18:31:00
Receipt Date:	20090928
Manifest ID:	002169535SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.325
Waste Quantity:	650

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KCB TOWERS INC (Continued) **S113118253**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090916
Creation Date:	3/5/2010 18:31:00
Receipt Date:	20090928
Manifest ID:	002169535SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F004
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	F002
Additional Code 3:	F001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAL000248885
Shipment Date:	20050217
Creation Date:	5/29/2005 18:31:56
Receipt Date:	20050224
Manifest ID:	24016561
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	D / K - ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

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KCB TOWERS INC (Continued) **S113118253**

Additional Code 5: Not reported

Additional Info:
Year: 2017
Gen EPA ID: CAL000248885

Shipment Date: 20170413
Creation Date: 5/9/2018 18:32:07
Receipt Date: 20170426
Manifest ID: 003159086GBF
Trans EPA ID: CAL000263169
Trans Name: ALL VALLEY ENVIRONMENTAL
Trans 2 EPA ID: CAD983649880
Trans 2 Name: PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID: CAD008364432
Trans Name: STERICYCLE ENVIRONMENTAL SOLUTIONS
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D001
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.5
Waste Quantity: 1000
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:
Name: KCB TOWERS INC
Address: 27260 MEINES ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 395756
CERS ID: 10041079
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-09-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/11/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Observed (1) 55 gallon drum of used oil missing accumulation start date on hazardous waste label.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-02-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple

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KCB TOWERS INC (Continued) **S113118253**

Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/02/2014. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-02-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 02/26/2014.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-02-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/02/2014. Hazardous waste accumulation time exceeded (CCR 66262.34(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-09-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/11/2017. Failure to manage contaminated containers lawfully (CCR 66261.7) Observed (2) 55 gallon drums with hazardous waste labels which Operator stated were empty at the time of inspection. Drums missing the word "EMPTY" and date which containers became emptied.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-09-2017
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or

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KCB TOWERS INC (Continued) **S113118253**

business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 02/11/2017. Observed (1) 1,000 Liter aboveground storage tank of liquid oxygen not previously disclosed in Business Plan.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-09-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/11/2017. Failure to store hazardous waste in sound containers (CCR 66265.171) Observed (1) 55 gallon drum of waste antifreeze which appeared to be rusting.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-09-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/11/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Observed (1) 55 gallon drum of waste antifreeze with incomplete hazardous waste label.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-09-2017
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes: Returned to compliance on 02/11/2017. Observed (1) 55 gallon drum of used oil filters open at time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-02-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/02/2014. Failure to manage hazardous waste lawfully (CHSC 25154)
Violation Division: San Bernardino County Fire Department

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KCB TOWERS INC (Continued) **S113118253**

Violation Program: HW
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-02-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/02/2014. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Violation Date: 01-02-2014
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes: Returned to compliance on 01/02/2014.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION OF KCB TOWER INC.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION FOR KCB TOWER INC.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2020

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KCB TOWERS INC (Continued) **S113118253**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-02-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-02-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 395756
Site Name: KCB TOWERS INC
Site Address: 27260 MEINES ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 01-02-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Site Address: 27260 MEINES ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 01-02-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Site Address: 27260 MEINES ST
Site City: HIGHLAND
Site Zip: 92346

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KCB TOWERS INC (Continued) **S113118253**

Enf Action Date: 01-09-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 395756
Site Name: KCB TOWERS INC
Site Address: 27260 MEINES ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 01-09-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 395756
Facility Name: KCB TOWERS INC
Env Int Type Code: HMBP
Program ID: 10041079
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 34.109260
Longitude: -117.209620

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. BOX 100
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92346
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: LYNN BOGH
Entity Title: Not reported
Affiliation Address: P.O. BOX 100
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92346
Affiliation Phone: (909) 862-0322,

Affiliation Type Desc: Document Preparer
Entity Name: ANISSA STOECKER
Entity Title: Not reported
Affiliation Address: Not reported

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KCB TOWERS INC (Continued) **S113118253**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	MICHAEL BOGH
Entity Title:	Not reported
Affiliation Address:	P O BOX 100
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	KCB TOWERS, INC.
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 100
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 841-3159,
Affiliation Type Desc:	Parent Corporation
Entity Name:	KCB TOWERS INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Identification Signer
Entity Name:	LYNN BOGH
Entity Title:	PRESIDENT
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator

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KCB TOWERS INC (Continued) **S113118253**

Entity Name:	KCB TOWERS, INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 862-0322,

HWTS:

Name:	KCB TOWERS INC
Address:	27260 MEINES ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000248885
Inactive Date:	Not reported
Create Date:	03/28/2002
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 100
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923460000
Owner Name:	KCB TOWERS INC
Owner Address:	27260 MEINES ST
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 923460000
Contact Name:	ANISSA STOECKER
Contact Address:	27260 MEINES ST
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.108592
Longitude:	-117.209585

NAICS:

EPA ID:	CAL000248885
Create Date:	2006-11-27 18:30:15.000
NAICS Code:	23591
NAICS Description:	Structural Steel Erection Contractors
Issued EPA ID Date:	2002-03-28 09:17:42.14000
Inactive Date:	Not reported
Facility Name:	KCB TOWERS INC
Facility Address:	27260 MEINES ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92346

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NPL **USAF NORTON AFB** **NPL** **1000417274**
Region **305 S TIPPECANOE AVE** **SEMS** **CA4570024345**
South **SAN BERNARDINO, CA 92408** **CORRACTS**
1/8-1/4 **RCRA-TSDF**
943 ft. **RCRA-SQG**
US ENG CONTROLS
US INST CONTROLS
ROD

NPL:

EPA Region:	9
EPA ID:	CA4570024345
Site ID:	902760
Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
City,State,Zip:	SAN BERNARDINO, CA 92408
Federal:	Y
Final Date:	1987-07-22 00:00:00
Latitude:	34.098061
Longitude:	-117.2372
Site Score:	39.649999999999999
NAI:	Not reported
Native American Entity:	Not reported

NPL:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
CAS Number:	Not reported
Substance:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	U211
CAS Number:	56-23-5
Substance:	CARBON TETRACHLORIDE
Pathway:	GROUND WATER PATHWAY
Scoring:	3

NPL Status:	Currently on the Final NPL
Substance ID:	U228
CAS Number:	79-01-6
Substance:	TRICHLOROETHYLENE (TCE)
Pathway:	GROUND WATER PATHWAY
Scoring:	2

Summary Details:

Conditions at proposal October 15, 1984): Norton Air Force Base covers approximately 2,036 acres 58 miles east of Los Angeles near the City of San Bernardino, San Bernardino County, California. It is in a low-lying alluvial plain surroundedon the north and east by the San Bernardino Mountain Range. The base began operations in 1942 and has served as a major overhaul center for jet engines and the general repair of aircraft. Since 1962, the facility has served as a Military Airlift Command Base. In addition, Norton formerly had the responsibility for providing maintenance and logistics for liquid-fuel intercontinental ballistic missiles. Past ha ardous waste management practices may have contributed to existingcontamination problems throughout the base. The practices include burial of drums and other unspecified materials; disposal of waste oils, solvents, and paint residues

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USAF NORTON AFB (Continued) **1000417274**

into landfills, unlined pits, ponds, and drying beds; storage in leaking underground tanks; and spills of AVGAS, oils, solvents, PCBs, and acidic plating solutions. Industrial solvents have been used extensively on the base. Unknown quantities of spent solvents were disposed of in several base landfills.A well on the base has been contaminated with trichloroethylene TCE). The well water is currently being used in a blended system and is sampled quarterly to ensure that TCE is below the California State action level. The water is used by approximately ll,000 people who live and/or work on the base. Norton Air Force Base is participating in the Installation Restoration Program IRP), established in l978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from ha ardous materials. The Air Force has completed Phase I records search). Phase II remedial investigation) is underway. Status July 22, 1987): In November 1986, the California Regional Water Quality Control Board issued a Cleanup and Abatement Order requiring Norton to clean up one on-base area, the Industrial Waste Water Treatment Plant Sludge Drying Beds. Phase II-Stage 2 of the IRP was completed in December 1986. It focusedon characteri ation of the contamination at 18 on-base areas. More than 22 areas have been identified to date. Additional areas will be studied in Stage 3, scheduled to begin in the fall of 1987. Within the boundaries of this Federal facility, there are areas subject to the Subtitle C corrective action authorities of the Resource Conservation and Recovery Act RCRA). However, no such areas were included in scoring this specific site. Therefore, this Federal facility site isbeing placed on the Federal section of the NPL under the NPL/RCRA policy announced on September 8, 1983 48 FR 40662).

NPL:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 50 And <= 100 Feet
Category Value: 80

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

NPL:
NPL Name: NORTON AIR FORCE BASE (LNDFLL #2)

NPL:
EPA Region: 09
Site ID: 0902760
Site Status: F
Federal Site: Y
Date Deleted: Not reported
Date Finalized: 07/22/87
Date Proposed: 10/15/84

NPL:
Proposed Date: 10/15/1984
Final Date: 07/22/1987
Deleted Date: Not reported
NPL Status: Final

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USAF NORTON AFB (Continued) **1000417274**

SEMS:
Site ID: 0902760
EPA ID: CA4570024345
Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
Cong District: 31,40
FIPS Code: 06071
Latitude: 34.098061
Longitude: -117.237200
FF: Y
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: MA
Action Name: ST COOP
SEQ: 1
Start Date: 1989-04-30 04:00:00
Finish Date: 6/30/1994 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 2000-07-24 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: HR
Action Name: HAZRANK
SEQ: 1
Start Date: 1988-06-01 04:00:00

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USAF NORTON AFB (Continued) **1000417274**

Finish Date:	6/1/1988 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	CM
Action Name:	PCOR
SEQ:	1
Start Date:	2006-05-16 04:00:00
Finish Date:	5/16/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	1
Start Date:	1987-09-30 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1993-11-24 05:00:00
Finish Date:	11/24/1993 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	EE

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USAF NORTON AFB (Continued) **1000417274**

Action Name:	EE/CA
SEQ:	1
Start Date:	1996-03-29 05:00:00
Finish Date:	3/29/1996 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	OM
Action Name:	OM
SEQ:	2
Start Date:	1999-11-28 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	1989-06-29 04:00:00
Finish Date:	11/24/1993 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	LX
Action Name:	FF RD
SEQ:	1
Start Date:	1993-11-24 05:00:00
Finish Date:	9/16/1994 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F

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USAF NORTON AFB (Continued) **1000417274**

FF:	Y
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1984-10-15 05:00:00
Finish Date:	10/15/1984 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	2
Start Date:	2005-09-29 04:00:00
Finish Date:	9/29/2005 4:00:00 AM
Qual:	R
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	H
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	3
Start Date:	1998-10-01 04:00:00
Finish Date:	6/10/2003 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760

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USAF NORTON AFB (Continued) **1000417274**

EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 6
Start Date: 1996-03-25 05:00:00
Finish Date: 4/22/1997 4:00:00 AM
Qual: P
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 7
Start Date: 1996-04-25 04:00:00
Finish Date: 9/30/1999 4:00:00 AM
Qual: S
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 8
Start Date: 1996-04-18 04:00:00
Finish Date: 12/19/1997 5:00:00 AM
Qual: P
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 9
Start Date: 1997-06-30 04:00:00
Finish Date: 12/8/1998 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

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USAF NORTON AFB (Continued) **1000417274**

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 11
Start Date: 1997-06-25 04:00:00
Finish Date: 12/8/1998 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 12
Start Date: 1996-04-15 04:00:00
Finish Date: 7/22/1997 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 01
Action Code: OM
Action Name: OM
SEQ: 1
Start Date: 1996-07-26 04:00:00
Finish Date: 12/21/2005 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: LV
Action Name: FF RV
SEQ: 1
Start Date: 1991-01-04 05:00:00
Finish Date: 4/8/1992 4:00:00 AM

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USAF NORTON AFB (Continued) **1000417274**

Qual:	C
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	1997-06-25 04:00:00
Finish Date:	6/25/1997 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1987-07-22 04:00:00
Finish Date:	7/22/1987 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA

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USAF NORTON AFB (Continued) **1000417274**

SEQ: 1
Start Date: 1994-09-16 04:00:00
Finish Date: 7/26/1996 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 2
Start Date: 1995-12-21 05:00:00
Finish Date: 7/28/1999 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 13
Start Date: 2004-02-02 05:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 14
Start Date: 2003-11-24 05:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y

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USAF NORTON AFB (Continued) **1000417274**

OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 15
Start Date: 2003-12-17 05:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 16
Start Date: 2003-12-11 05:00:00
Finish Date: 12/3/2004 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 17
Start Date: 1996-09-20 04:00:00
Finish Date: 11/15/1996 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-08-01 04:00:00
Finish Date: 8/1/1980 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

CORRACTS:
Name: USAF NORTON AFB

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USAF NORTON AFB (Continued) **1000417274**

Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 19930205
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 19930205
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CMS WORKPLAN APPROVED
Actual Date: 19930205
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CMS COMPLETE
Actual Date: 19930205
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CMI WORKPLAN APPROVED
Actual Date: 19941007
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION and TREATMENT
Actual Date: 19890713
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 20000522
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Actual Date: 20000522
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 19980618
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345

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USAF NORTON AFB (Continued) **1000417274**

Area Name:	ENTIRE FACILITY
Corrective Action:	REMEDY DECISION
Actual Date:	19931124
Air Release Indicator:	Not reported
Groundwater Release Indicator:	Not reported
Soil Release Indicator:	Not reported
Surface Water Release Indicator:	Not reported

Name:	USAF NORTON AFB
Address:	305 S TIPPECANOE AVE
Address 2:	Not reported
EPA ID:	CA4570024345
Area Name:	ENTIRE FACILITY
Corrective Action:	REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
Actual Date:	19950601
Air Release Indicator:	Not reported
Groundwater Release Indicator:	Not reported
Soil Release Indicator:	Not reported
Surface Water Release Indicator:	Not reported

Click this hyperlink while viewing on your computer to access
1 additional CORRACTS: record(s) in the EDR Site Report.

RCRA-SQG:

Date Form Received by Agency:	19960901
Handler Name:	USAF NORTON AFB
Handler Address:	305 S TIPPECANOE AVE
Handler City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Federal
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Corrective Action Activities
State District Owner:	CA
State District:	4
Mailing Address:	63RD CIV ENG SQU/DEEV
Mailing City,State,Zip:	NORTON AFB, CA 92409
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	MULTIPLE OPS - USAF & DPDO
Operator Type:	Federal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility Activity:	No
Recycler Activity with Storage:	No

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USAF NORTON AFB (Continued) **1000417274**

Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not Accomplished
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	No
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20060905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Owner/Operator Address: US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip: CITY NOT REPORTED, CA 99999
Owner/Operator Telephone: 714-382-3909
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MULTIPLE OPS - USAF & DPDO
Legal Status: Federal
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip: CITY NOT REPORTED, CA 99999
Owner/Operator Telephone: 714-382-3909
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: US AIR FORCE
Legal Status: Federal
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NORTON AFB
Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92409
Owner/Operator Telephone: 714-382-3909
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960901
Handler Name: USAF NORTON AFB
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960901
Handler Name: USAF NORTON AFB
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Receive Date: 19800818
Handler Name: USAF NORTON AFB
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900417
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920228
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940328
Handler Name: USAF NORTON AFB
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960311
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

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USAF NORTON AFB (Continued) **1000417274**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	2349
NAICS Description:	OTHER HEAVY CONSTRUCTION
NAICS Code:	23552
NAICS Description:	FLOOR LAYING AND OTHER FLOOR CONTRACTORS
NAICS Code:	332813
NAICS Description:	ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING
NAICS Code:	336411
NAICS Description:	AIRCRAFT MANUFACTURING
NAICS Code:	48811
NAICS Description:	AIRPORT OPERATIONS
NAICS Code:	56121
NAICS Description:	FACILITIES SUPPORT SERVICES
NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR
NAICS Code:	81292
NAICS Description:	PHOTOFINISHING
NAICS Code:	92411
NAICS Description:	ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS
NAICS Code:	92811
NAICS Description:	NATIONAL SECURITY

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19930422
Actual Return to Compliance Date:	19940128
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19930513
Enforcement Identifier:	006
Date of Enforcement Action:	19930422
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19870820
Actual Return to Compliance Date: 19880726
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19870623
Actual Return to Compliance Date:	19870806
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19891030
Actual Return to Compliance Date: 19900314
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19900314
Enforcement Identifier: 004
Date of Enforcement Action: 19891211
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19880726
Actual Return to Compliance Date: 19891030
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	19870820
Actual Return to Compliance Date:	19880726
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19930422
Actual Return to Compliance Date:	19940128
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19930513
Enforcement Identifier:	006
Date of Enforcement Action:	19930422
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	20030422
Actual Return to Compliance Date:	20050727
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20050316
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	20030422
Actual Return to Compliance Date:	20050727
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20050317
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19910227
Actual Return to Compliance Date:	19910516
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19910712
Enforcement Identifier:	005
Date of Enforcement Action:	19910412
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19870623
Actual Return to Compliance Date:	19870806
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19870806
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	19870820
Actual Return to Compliance Date:	19880726
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19930422
Actual Return to Compliance Date:	19940128
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19930513
Enforcement Identifier:	006
Date of Enforcement Action:	19930422
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930422
Actual Return to Compliance Date: 19940128
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930513
Enforcement Identifier: 006
Date of Enforcement Action: 19930422
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080619
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19870730
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160419
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19870806
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19891030
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900314
Scheduled Compliance Date:	19900314
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI

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USAF NORTON AFB (Continued) **1000417274**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170413
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880726
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19891030
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070411
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050622
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870730
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19940126
Evaluation Responsible Agency:	State

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20030422
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050727
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150429
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619

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USAF NORTON AFB (Continued) **1000417274**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030422
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050727
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910227
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910516
Scheduled Compliance Date:	19910712
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19870806
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060425
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Evaluation Date:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

RCRA-SQG:

Date Form Received by Agency:		19960901
Handler Name:	USAF NORTON AFB	
Handler Address:		305 S TIPPECANOE AVE
Handler City,State,Zip:		SAN BERNARDINO, CA 92408
EPA ID:		CA4570024345
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Federal
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities, Corrective Action Activities
State District Owner:		CA
State District:		4
Mailing Address:		63RD CIV ENG SQU/DEEV
Mailing City,State,Zip:		NORTON AFB, CA 92409
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		MULTIPLE OPS - USAF & DPDO
Operator Type:		Federal
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		Yes
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		The land is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Storage, Treatment
2018 GPRA Permit Baseline:		Not Accomplished
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Storage, Treatment
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported

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USAF NORTON AFB (Continued) **1000417274**

202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	No
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20060905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	US AIR FORCE
Legal Status:	Federal
Date Became Current:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Date Ended Current:	Not reported
Owner/Operator Address:	NORTON AFB
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92409
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19960901
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19800818
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19900417
Handler Name: NORTON AIR FORCE BASE	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

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USAF NORTON AFB (Continued) **1000417274**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920228
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940328
Handler Name: USAF NORTON AFB
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960311
Handler Name: NORTON AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 2349
NAICS Description: OTHER HEAVY CONSTRUCTION

NAICS Code: 23552
NAICS Description: FLOOR LAYING AND OTHER FLOOR CONTRACTORS

NAICS Code: 332813
NAICS Description: ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

NAICS Code: 336411
NAICS Description: AIRCRAFT MANUFACTURING

NAICS Code: 48811

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USAF NORTON AFB (Continued) **1000417274**

NAICS Description: AIRPORT OPERATIONS

NAICS Code: 56121
NAICS Description: FACILITIES SUPPORT SERVICES

NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

NAICS Code: 81292
NAICS Description: PHOTOFINISHING

NAICS Code: 92411
NAICS Description: ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19930422
Actual Return to Compliance Date:	19940128
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19930513
Enforcement Identifier:	006
Date of Enforcement Action:	19930422
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19870820
Actual Return to Compliance Date:	19880726
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19870623
Actual Return to Compliance Date: 19870806
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19891030
Actual Return to Compliance Date:	19900314
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19900314
Enforcement Identifier:	004
Date of Enforcement Action:	19891211
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19880726
Actual Return to Compliance Date:	19891030
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	19870820
Actual Return to Compliance Date:	19880726
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19920515
Actual Return to Compliance Date: 19920619
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19930422
Actual Return to Compliance Date: 19940128
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930513
Enforcement Identifier: 006
Date of Enforcement Action: 19930422
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Ground-Water Monitoring
Date Violation was Determined: 20030422
Actual Return to Compliance Date: 20050727
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20050316
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19920515
Actual Return to Compliance Date:	19920619
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	20030422
Actual Return to Compliance Date:	20050727
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20050317
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19910227
Actual Return to Compliance Date:	19910516
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19910712
Enforcement Identifier:	005
Date of Enforcement Action:	19910412
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19870623
Actual Return to Compliance Date: 19870806
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19870806
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	19870820
Actual Return to Compliance Date:	19880726
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930422
Actual Return to Compliance Date: 19940128
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930513
Enforcement Identifier: 006
Date of Enforcement Action: 19930422
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19930422
Actual Return to Compliance Date:	19940128
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19930513
Enforcement Identifier:	006
Date of Enforcement Action:	19930422
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

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USAF NORTON AFB (Continued) **1000417274**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080619
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870730
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160419
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19870806
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19891030
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900314
Scheduled Compliance Date:	19900314
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170413
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880726
Evaluation Responsible Agency:	EPA

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USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19891030
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070411
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050622
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870730
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19940126
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030422
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050727
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Evaluation Date:	20150429
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920330
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920619
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20030422
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050727
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19910227
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA

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USAF NORTON AFB (Continued) **1000417274**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910516
Scheduled Compliance Date:	19910712
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19870806
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060425
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870820
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880726
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930308
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940128
Scheduled Compliance Date:	19930513
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

SIte:

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
Event Code:	Not reported
Action Taken Date:	09/29/2005
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	2
Operable Unit:	02
Contaminated Media:	Soil
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

Media:

EPA ID:	CA4570024345
Contaminated Media:	Air
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Debris
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

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USAF NORTON AFB (Continued) **1000417274**

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993

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USAF NORTON AFB (Continued) **1000417274**

Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994

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USAF NORTON AFB (Continued) **1000417274**

NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

EPA ID: CA4570024345

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USAF NORTON AFB (Continued) **1000417274**

Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL

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USAF NORTON AFB (Continued) **1000417274**

Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	06/25/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	06/25/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

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USAF NORTON AFB (Continued) **1000417274**

US INST CONTROLS:

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	3
Operable Unit:	02
Actual Date:	06/25/1997
Contaminated Media:	Soil
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	1
Operable Unit:	01
Actual Date:	11/24/1993
Contaminated Media:	Groundwater
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	1
Operable Unit:	01
Actual Date:	11/24/1993
Contaminated Media:	Soil
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

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USAF NORTON AFB (Continued) **1000417274**

Federal Facility: Y
Fiscal Year: 1994
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Action Name: Record of Decision
Action ID: 2
Operable Unit: 02
Actual Date: 09/29/2005
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2005
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.098061
Longitude: -117.237200

ROD:
Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
RG: 9
Site ID: 902760
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: CENTRAL BASE AREA
SEQ ID: 1
Action Completion: 1993-11-24 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
RG: 9
Site ID: 902760
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: BASEWIDE
SEQ ID: 2
Action Completion: 2005-09-29 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB

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USAF NORTON AFB (Continued) **1000417274**

City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
RG:	9
Site ID:	902760
Action:	GOVT Decision Document (ROD)
Operable Unit Number:	BASEWIDE
SEQ ID:	3
Action Completion:	1997-06-25 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

---

9 **WEST PILING, INC.** **RCRA NonGen / NLR** **1025838566**
West **27002 MEINES** **CAC003018162**
< 1/8 **HIGHLAND, CA 92346**
0.013 mi.
66 ft.

Relative: RCRA NonGen / NLR:
Lower

Actual: Date Form Received by Agency:		20190605
1181 ft. Handler Name:	WEST PILING, INC.	
Handler Address:		27002 MEINES
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAC003018162
Contact Name:		SALVADOR ALTAMIRANO
Contact Address:		PO BOX 211240
Contact City,State,Zip:		CHULA VISTA, CA 91921
Contact Telephone:		949-419-5202
Contact Fax:		Not reported
Contact Email:		ALTAMIRANOSA@AOL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 211240
Mailing City,State,Zip:		CHULA VISTA, CA 91921
Owner Name:		FRANCISCA LEE
Owner Type:		Other
Operator Name:		SALVADOR ALTAMIRANO
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No

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WEST PILING, INC. (Continued) **1025838566**

Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SALVADOR ALTAMIRANO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 211240
Owner/Operator City,State,Zip:	CHULA VISTA, CA 91921
Owner/Operator Telephone:	949-419-5202
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

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WEST PILING, INC. (Continued) **1025838566**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FRANCISCA LEE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2700 MEINES
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	949-419-5202
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20190605
Handler Name: WEST PILING, INC.	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	238190
NAICS Description:	OTHER FOUNDATION, STRUCTURE, AND BUILDING EXTERIOR CONTRACTORS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A10 **H & H GENERAL CONTRACTORS INC** **RCRA NonGen / NLR** **1026489892**
East **7919 PALM AVE** **CAL000375336**
< 1/8 **HIGHLAND, CA 92346**
0.022 mi.
115 ft. **Site 9 of 10 in cluster A**

Relative:
Higher

Actual:
1195 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20120615
Handler Name:	H & H GENERAL CONTRACTORS INC
Handler Address:	7919 PALM AVE
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000375336
Contact Name:	RICK GARABEDIAN
Contact Address:	PO BOX 536
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-425-3907
Contact Fax:	909-425-3910
Contact Email:	RICK@HHGCINC.COM
Contact Title:	Not reported

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H & H GENERAL CONTRACTORS INC (Continued) **1026489892**

EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 536
Mailing City,State,Zip:	HIGHLAND, CA 92346-0000
Owner Name:	H & H GENERAL CONTRACTORS INC
Owner Type:	Other
Operator Name:	RICK GARABEDIAN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported

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H & H GENERAL CONTRACTORS INC (Continued) **1026489892**

Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20201203
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RICK GARABEDIAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 536
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-425-3907
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	H & H GENERAL CONTRACTORS INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7919 PALM AVE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-425-3907
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20120615
Handler Name:	H & H GENERAL CONTRACTORS INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	Not reported
Recognized Trader Exporter:	Not reported
Spent Lead Acid Battery Importer:	Not reported
Spent Lead Acid Battery Exporter:	Not reported
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299

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H & H GENERAL CONTRACTORS INC (Continued) **1026489892**

NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A11
East
< 1/8
0.022 mi.
115 ft.

Relative:
Higher

Actual:
1195 ft.

H & H GENERAL CONTRACTORS INC
7919 PALM AVE
HIGHLAND, CA 92346

Site 10 of 10 in cluster A

CA AST **S112142770**
CA CERS HAZ WASTE **N/A**
CA CERS TANKS
CA HAZNET
CA San Bern. Co. Permit
CA CERS
CA HWTS

AST:

Name:	H & H GENERAL CONTRACTORS INC
Address:	7919 PALM AVE
City/Zip:	HIGHLAND,92346
Certified Unified Program Agencies:	Not reported
Owner:	H & H GENERAL CONTRACTORS INC
Total Gallons:	Not reported
CERSID:	10313599
Facility ID:	FA0014693
Business Name:	H & H GENERAL CONTRACTORS INC
Phone:	(909) 425-3907
Fax:	(909) 425-3910
Mailing Address:	7919 PALM AVE
Mailing Address City:	HIGHLAND
Mailing Address State:	CA
Mailing Address Zip Code:	92346
Operator Name:	H&H General Contractors, inc.
Operator Phone:	909-322-4591
Owner Phone:	(909) 891-1877
Owner Mail Address:	PO BOX 536
Owner State:	CA
Owner Zip Code:	92346
Owner Country:	United States
Property Owner Name:	Hodges
Property Owner Phone:	Not reported
Property Owner Mailing Address:	7919 PALM AVE
Property Owner City:	HIGHLAND
Property Owner Stat :	CA
Property Owner Zip Code:	92346
Property Owner Country:	United States
EPAID:	cal000375336

CERS HAZ WASTE:

Name:	H & H GENERAL CONTRACTORS INC
Address:	7919 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	34992
CERS ID:	10313599
CERS Description:	Hazardous Waste Generator

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

CERS TANKS:
Name: H & H GENERAL CONTRACTORS INC
Address: 7919 PALM AVE
City,State,Zip: HIGHLAND, CA 92346
Site ID: 34992
CERS ID: 10313599
CERS Description: Aboveground Petroleum Storage

HAZNET:
Name: H & H GENERAL CONTRACTORS INC
Address: 7919 PALM AVE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 923460000
Contact: RICK GARABEDIAN
Telephone: 9094253907
Mailing Name: Not reported
Mailing Address: PO BOX 536

Year: 2018
Gepaid: CAL000375336
TSD EPA ID: CAL000330453
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05000

Year: 2018
Gepaid: CAL000375336
TSD EPA ID: CAL000330453
CA Waste Code: 352 - Other organic solids
Disposal Method: H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons: 0.12500

San Bern. Co. Permit:
Name: H & H GENERAL CONTRACTORS INC
Address: 7919 PALM AVE
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0014693
Owner: H & H GENERAL CONTRACTORS INC
Permit Number: PT0025636
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2022

Name: H & H GENERAL CONTRACTORS INC
Address: 7919 PALM AVE
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0014693
Owner: H & H GENERAL CONTRACTORS INC
Permit Number: PT0034814
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 09/30/2022

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

Name: H & H GENERAL CONTRACTORS INC
Address: 7919 PALM AVE
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0014693
Owner: H & H GENERAL CONTRACTORS INC
Permit Number: PT0025637
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2022

CERS:
Name: H & H GENERAL CONTRACTORS INC
Address: 7919 PALM AVE
City,State,Zip: HIGHLAND, CA 92346
Site ID: 34992
CERS ID: 10313599
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 34992
Site Name: H & H GENERAL CONTRACTORS INC
Violation Date: 12-14-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/27/2017. Failure to store hazardous waste in sound containers (CCR 66265.171) Observed (2) 55 gallon drums containing used motor oil to have severe denting. Compliance Requirement: Sign the Certificate of Compliance in attestation that both unsound drum s have been properly emptied of their hazardous content, and the drums have been properly disposed of.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 34992
Site Name: H & H GENERAL CONTRACTORS INC
Violation Date: 12-14-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan.
Violation Notes: Returned to compliance on 12/27/2017. Facility staff was unable to locate a prepared SPCC Plan during the inspection. Compliance Requirement: Sign the Certificate of Compliance in attestation that an SPCC Plan has been prepared and implemented, and is available for review on site.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 34992
Site Name: H & H GENERAL CONTRACTORS INC
Violation Date: 12-14-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 12/27/2017. Failure to manage hazardous waste lawfully (CHSC 25154) Observed oil contaminated absorbent on the top of (1) 55 gallon drum containing used motor oil, and used motor oil to present in the secondary containment of the hazardous waste storage area. Compliance Requirement: Sign the Certificate of Compliance in attestation that the oil contaminated absorbent has been properly removed from the hazardous waste storage area, and the oil has been removed the secondary containment in the hazardous waste storage area.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34992
Site Name:	H & H GENERAL CONTRACTORS INC
Violation Date:	11-24-2020
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description:	Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes:	Returned to compliance on 12/02/2020. EPA ID Number inactive; CAL000375336. Violation corrected on 12/02/2020; operator reactivated the EPA ID Number.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34992
Site Name:	H & H GENERAL CONTRACTORS INC
Violation Date:	11-24-2020
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 11/24/2020. Last HMBP submitted via CERS occurred on 02/20/2019 Violation corrected on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	34992
Site Name:	H & H GENERAL CONTRACTORS INC
Violation Date:	12-14-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 12/14/2017. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Observed (5) 55 gallon drums of used motor oil to be missing appropriate hazardous waste labeling. Violation is corrected on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

Site ID:	34992
Site Name:	H & H GENERAL CONTRACTORS INC
Violation Date:	01-20-2015
Citation:	HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes:	Returned to compliance on 05/12/2015. Observed hazardous materials store on site during the inspection that are not listed in the most current CERS inventory or that are listed in lesser quantities. Furthermore, the hazardous materials, and hazardous wastes maximum daily amounts must be updated so to reflect the maximum quantities that can be stored on site any day of the year. Business Plan was updated via CERS on 05/12/2015
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	34992
Site Name:	H & H GENERAL CONTRACTORS INC
Violation Date:	12-14-2017
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 12/27/2017. The inventory disclosed via CERS on 08/10/2017 did not fully account for all the hazardous materials observed on site at the time of the inspection. In addition to the disclosed inventory, (2) 177 cubic foot cylinders of Argon/CO2, and (5) 55 gallon drums of use motor oil. Also, the Emergency Response and Contingency Plan is missing the required CUPA Emergency Response Phone Number.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	34992
Site Name:	H & H GENERAL CONTRACTORS INC
Violation Date:	11-24-2020
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide appropriate secondary containment and/or diversionary structures or equipment for the following: bulk storage containers, mobile or portable containers, oil-filled equipment, piping and related appurtenances, mobile refuelers or non-transportation-related tank cars, and transfer areas, equipment and activities and ensure that the entire containment system, including walls and floor, are capable of containing oil and

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

	constructed so that any discharge will not escape the containment system before cleanup occurs.
Violation Notes:	Returned to compliance on 11/24/2020. Observed (1) 55 gallon drum of used lubricating oil that did not have appropriate secondary containment. Violation corrected on site. Operator moved the described 55 gallon drum onto a spill pallet capable of holding the drum's contents.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	34992
Site Name:	H & H GENERAL CONTRACTORS INC
Violation Date:	11-24-2020
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Returned to compliance on 12/07/2020. Observed (4) 55 gallon drums of used lubricating oil, and (1) 55 gallon drum of waste to have content which has exceeded the accumulation time frame for the facility. Operator stated the last hazardous waste transport occurred on 03/14/2019. Violation corrected on 12/07/2020; operator provided disposal documentation.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34992
Site Name:	H & H GENERAL CONTRACTORS INC
Violation Date:	11-24-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 11/24/2020. Observed (4) 55 gallon drums of used lubricating oil to not have appropriate hazardous waste labeling. Violation corrected on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	34992
Site Name:	H & H GENERAL CONTRACTORS INC
Violation Date:	11-24-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 11/24/2020. The federal hazard categories associated with each hazardous materials inventory item required update tot he new federal hazard category system. Violation corrected on site.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-24-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FUEL VEHICLE
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-24-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-24-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-14-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FUEL VEHICLE
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-14-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-14-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 34992
Site Name: H & H GENERAL CONTRACTORS INC
Site Address: 7919 PALM AVE
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 01-20-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 34992
Facility Name: H & H GENERAL CONTRACTORS INC
Env Int Type Code: HWG
Program ID: 10313599
Coord Name: Not reported

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

Ref Point Type Desc: Center of a facility or station.,
Latitude: 34.109840
Longitude: -117.208060

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Environmental Contact
Entity Name: ALFRED TROY HODGES
Entity Title: Not reported
Affiliation Address: P.O. BOX 536
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92346
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: H & H GENERAL CONTRACTORS INC
Entity Title: Not reported
Affiliation Address: PO BOX 536
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92346
Affiliation Phone: (909) 891-1877,

Affiliation Type Desc: Document Preparer
Entity Name: Rick Garabedian
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: H&H General Contractors, inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 322-4591,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

Entity Title:	Not reported
Affiliation Address:	7919 PALM AVE
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Rick Garabedian
Entity Title:	Project Engineer
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	H & H GENERAL CONTRACTORS INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

HWTS:

Name:	H & H GENERAL CONTRACTORS INC
Address:	7919 PALM AVE
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000375336
Inactive Date:	Not reported
Create Date:	06/15/2012
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 536
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923460000
Owner Name:	H & H GENERAL CONTRACTORS INC
Owner Address:	7919 PALM AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 92346
Contact Name:	RICK GARABEDIAN
Contact Address:	PO BOX 536
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.109371
Longitude:	-117.20873

NAICS:

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H & H GENERAL CONTRACTORS INC (Continued) **S112142770**

EPA ID:	CAL000375336
Create Date:	2012-06-15 15:41:30.513
NAICS Code:	23492
NAICS Description:	Power and Communication Transmission Line Construction
Issued EPA ID Date:	2012-06-15 15:41:30.46700
Inactive Date:	Not reported
Facility Name:	H & H GENERAL CONTRACTORS INC
Facility Address:	7919 PALM AVE
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92346

B12 **FARMER BOYS RESTAURANT** **CA San Bern. Co. Permit** **S109521210**
South **27250 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.039 mi.
205 ft. **Site 1 of 5 in cluster B**

Relative: **Higher**
Actual: **1193 ft.**

San Bern. Co. Permit:

Name:	FARMER BOYS RESTAURANT
Address:	27250 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0012139
Owner:	FARMER BOYS FOOD INC
Permit Number:	PT0021373
Permit Category:	BULK CO2 AT RETAIL FOOD FACILITIES
Facility Status:	INACTIVE
Expiration Date:	03/31/2011

C13 **AMIGOS RECYCLING INC.** **CA San Bern. Co. Permit** **S107136636**
SW **27170 E 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.044 mi.
234 ft. **Site 1 of 6 in cluster C**

Relative: **Lower**
Actual: **1186 ft.**

San Bern. Co. Permit:

Name:	AMIGOS RECYCLING INC.
Address:	27170 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0011674
Owner:	Amigos Recycling, Inc.
Permit Number:	PT0020214
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	INACTIVE
Expiration Date:	08/31/2021

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D14 SW < 1/8 0.050 mi. 263 ft. **ASTRO RENTAL EQUIPMENT** **CA HIST UST** **S118407627**
27111 E FIFTH ST **N/A**
HIGHLAND, CA 92346

Site 1 of 3 in cluster D

Relative: Lower
Actual: 1182 ft.

HIST UST:

Name:	ASTRO RENTAL EQUIPMENT
Address:	27111 E FIFTH ST
City,State,Zip:	HIGHLAND, CA 92346
File Number:	00029972
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029972.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

D15 SW < 1/8 0.050 mi. 263 ft. **HIGHLAND EQUIPMENT RENTAL INC** **RCRA NonGen / NLR** **1024806720**
27111 E 5TH ST **CAL000270616**
HIGHLANDS, CA 92346

Site 2 of 3 in cluster D

Relative: Lower
Actual: 1182 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20030520
Handler Name:	HIGHLAND EQUIPMENT RENTAL INC
Handler Address:	27111 E 5TH ST
Handler City,State,Zip:	HIGHLANDS, CA 92346
EPA ID:	CAL000270616
Contact Name:	ANDY ANDERSON
Contact Address:	27111 E 5TH ST
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-864-1810
Contact Fax:	909-864-1478
Contact Email:	03FATBOY@ROADRUNNER.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities

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HIGHLAND EQUIPMENT RENTAL INC (Continued) **1024806720**

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27111 E 5TH ST
Mailing City,State,Zip:	HIGHLAND, CA 92346-0000
Owner Name:	HIGHLAND EQUIPMENT RENTAL INC
Owner Type:	Other
Operator Name:	ANDY ANDERSON
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No

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HIGHLAND EQUIPMENT RENTAL INC (Continued) **1024806720**

Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ANDY ANDERSON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27111 E 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-864-1810
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HIGHLAND EQUIPMENT RENTAL INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27111 E 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-0000
Owner/Operator Telephone:	909-864-1810
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20030520
Handler Name:	HIGHLAND EQUIPMENT RENTAL INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	532412
NAICS Description:	CONSTRUCTION, MINING, AND FORESTRY MACHINERY AND EQUIPMENT RENTAL AND LEASING
NAICS Code:	562991
NAICS Description:	SEPTIC TANK AND RELATED SERVICES

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HIGHLAND EQUIPMENT RENTAL INC (Continued) **1024806720**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D16 **FOOTHILL TOOL/EQUIP RNTLS** **CA SWEEPS UST** **S103648417**
SW **27111 E 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.050 mi.
263 ft. **Site 3 of 3 in cluster D**

Relative:
Lower

Actual:
1182 ft.

SWEEPS UST:

Name:	FOOTHILL TOOL/EQUIP RNTLS
Address:	27111 E 5TH ST
City:	HIGHLAND
Status:	Active
Comp Number:	5957
Number:	9
Board Of Equalization:	Not reported
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-005957-000001
Tank Status:	A
Capacity:	3000
Active Date:	07-08-88
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	2

Name:	FOOTHILL TOOL/EQUIP RNTLS
Address:	27111 E 5TH ST
City:	HIGHLAND
Status:	Active
Comp Number:	5957
Number:	9
Board Of Equalization:	Not reported
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-005957-000002
Tank Status:	A
Capacity:	4000
Active Date:	07-08-88
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

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C17
SW
< 1/8
0.052 mi.
276 ft.

PETAS CAR CARE
27177 E 5TH ST A
HIGHLAND, CA 92346

Site 2 of 6 in cluster C

RCRA NonGen / NLR **1024860501**
CAL000428945

Relative:
Lower

Actual:
1187 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20170706
Handler Name:	PETAS CAR CARE	
Handler Address:		27177 E 5TH ST A
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAL000428945
Contact Name:		KEVIN KOHRELL
Contact Address:		27177 E 5TH ST A
Contact City,State,Zip:		HIGHLAND, CA 92346
Contact Telephone:		909-864-4151
Contact Fax:		909-864-4151
Contact Email:		PETASCARCARE@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		27177 E 5TH ST A
Mailing City,State,Zip:		HIGHLAND, CA 92346
Owner Name:		KEVIN KOHRELL
Owner Type:		Other
Operator Name:		KEVIN KOHRELL
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

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PETAS CAR CARE (Continued) **1024860501**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	KEVIN KOHRELL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27177 E 5TH ST A
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-864-4151
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KEVIN KOHRELL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27177 E 5TH ST A
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-864-4151
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

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PETAS CAR CARE (Continued) **1024860501**

Historic Generators:
- Receive Date: 20170706
- Handler Name: PETAS CAR CARE
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 811111
- NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

C18 **PETA'S CAR CARE** **CA San Bern. Co. Permit** **S103888618**
SW **27177 E 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.052 mi.
276 ft. **Site 3 of 6 in cluster C**

Relative:
Lower

Actual:
1187 ft.

San Bern. Co. Permit:
- Name: PETA'S CAR CARE
- Address: 27177 E 5TH ST
- City,State,Zip: HIGHLAND, CA 92346
- Region: SAN BERNARDINO
- Facility ID: FA0005295
- Owner: KEVIN KOHRELL
- Permit Number: PT0006190
- Permit Category: SMALL QUANTITY GENERATOR
- Facility Status: ACTIVE
- Expiration Date: 09/30/2022

- Name: PETA'S CAR CARE
- Address: 27177 E 5TH ST
- City,State,Zip: HIGHLAND, CA 92346
- Region: SAN BERNARDINO
- Facility ID: FA0005295
- Owner: KEVIN KOHRELL
- Permit Number: PT0006189
- Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
- Facility Status: ACTIVE
- Expiration Date: 09/30/2022

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C19
SW
< 1/8
0.052 mi.
276 ft.

PETA'S CAR CARE
27177 E 5TH ST A
HIGHLAND, CA 92346

Site 4 of 6 in cluster C

CA CERS HAZ WASTE
CA HAZNET
CA CERS
CA HWTS

S113052402
N/A

Relative:
Lower

Actual:
1187 ft.

CERS HAZ WASTE:

Name:	PETA'S CAR CARE
Address:	27177 E 5TH ST A
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	56386
CERS ID:	10043071
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	PETA'S CAR CARE
Address:	27177 E 5TH ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 923460000
Contact:	JOHN PETAISHISKI-OWNER
Telephone:	9098621533
Mailing Name:	Not reported
Mailing Address:	27177 5TH ST # E
Year:	1996
Gepaid:	CAL000079725
TSD EPA ID:	CAT080025711
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	0.418

Additional Info:

Year:	1996
Gen EPA ID:	CAL000079725
Shipment Date:	19961206
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961211
Manifest ID:	96393706
Trans EPA ID:	CA0000001818
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080025711
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

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PETA'S CAR CARE (Continued) **S113052402**

Additional Code 5: Not reported

CERS:
Name: PETA'S CAR CARE
Address: 27177 E 5TH ST A
City,State,Zip: HIGHLAND, CA 92346
Site ID: 56386
CERS ID: 10043071
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 56386
Site Name: PETA'S CAR CARE
Violation Date: 06-06-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 06/12/2017. Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 56386
Site Name: PETA'S CAR CARE
Violation Date: 07-22-2014
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 08/06/2014. Last business plan received was on 09/13/2011.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 56386
Site Name: PETA'S CAR CARE
Violation Date: 09-15-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: LAST HMBP SUBMITTED VIA CERS OCCURRED ON 06/12/2017. CORRECTIVE ACTION: COMPLY BY REVIEWING AND CERTIFYING THE BUSINESS PLAN ANNUALLY.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 56386
Site Name: PETA'S CAR CARE
Violation Date: 09-15-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22,

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PETA'S CAR CARE (Continued) **S113052402**

	Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 09/15/2020. OBSERVED (3) 55 GALLON DRUMS OF USED LUBRICATING OIL, WHICH WERE NOT LABELED. VIOLATION CORRECTED ONSITE.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	56386
Site Name:	PETA'S CAR CARE
Violation Date:	09-15-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	UPDATE THE OWNERSHIP INFORMATION SUBMITTED VIA CERS. CORRECTIVE ACTION: COMPLY BY SUBMITTING THE BUSINESS OWNER/OPERATOR IDENTIFICATION PAGE AS REQUIRED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	56386
Site Name:	PETA'S CAR CARE
Violation Date:	09-15-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	UPDATE INVENTORY TO INCLUDE (1) 55 GALLON DRUM OF ANTIFREEZE, (3) 55 GALLON DRUMS OF MOTOR OIL, (2) 55 GALLON DRUMS OF USED LUBRICATING OIL, IN ADDITION TO THE ITEMS SUBMITTED IN CERS. CORRECTIVE ACTION: COMPLY BY SUBMITTING AN ACCURATE AND COMPLETE HAZARDOUS MATERIALS INVENTORY VIA CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-06-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE GENERATOR INSPECTION FOR PETA'S CAR CARE.
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-22-2014
Violations Found:	No

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PETA'S CAR CARE (Continued) **S113052402**

Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-15-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-06-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE HANDLER INSPECTION FOR PETA'S CAR CARE.
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-26-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-26-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-22-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-15-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department

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PETA'S CAR CARE (Continued) **S113052402**

Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 56386
Site Name: PETA'S CAR CARE
Site Address: 27177 E 5TH ST A
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 06-06-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 56386
Site Name: PETA'S CAR CARE
Site Address: 27177 E 5TH ST A
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-22-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: JOHN PETAISHISKI
Entity Title: Not reported
Affiliation Address: 27177 E 5TH ST
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92346
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 27177 E 5TH ST UNIT A
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92346
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: JOHN PETAISHISKI
Entity Title: Not reported
Affiliation Address: 27177 E 5T ST
Affiliation City: HIGHLAND

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PETA'S CAR CARE (Continued) **S113052402**

Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 496-5148,
Affiliation Type Desc:	Operator
Entity Name:	JOHN PETAISHISHKI
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 496-5148,
Affiliation Type Desc:	Parent Corporation
Entity Name:	petas car care
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,

HWTS:

Name:	PETA'S CAR CARE
Address:	27177 E 5TH ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000079725
Inactive Date:	06/30/2017
Create Date:	07/15/1993
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	27177 5TH ST # E
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923460000
Owner Name:	JOHN PETAISHISKI
Owner Address:	27177 5TH ST
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 923460000
Contact Name:	JOHN PETAISHISKI-OWNER
Contact Address:	27177 E 5TH ST
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346

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PETA'S CAR CARE (Continued) **S113052402**

Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.108041
Longitude:	-117.211442

NAICS:

EPA ID:	CAL000079725
Create Date:	2002-03-14 16:36:27.000
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	1993-07-15 00:00:00
Inactive Date:	2017-06-30 00:00:00
Facility Name:	PETA'S CAR CARE
Facility Address:	27177 E 5TH ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923460000

C20 **D & M TRANSMISSION** **CA San Bern. Co. Permit** **S105974278**
SSW **27213 E 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.053 mi.
281 ft. **Site 5 of 6 in cluster C**

Relative:
Lower

Actual:
1189 ft.

San Bern. Co. Permit:

Name:	D & M TRANSMISSION
Address:	27213 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0007936
Owner:	BETTEN, DOUG
Permit Number:	PT0013866
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2013

Name:	D & M TRANSMISSION
Address:	27213 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0007936
Owner:	BETTEN, DOUG
Permit Number:	PT0013865
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	08/31/2013

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B21 **BECK'S AUTOMOTIVE** **CA San Bern. Co. Permit** **S106910709**
SSW **27221 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.053 mi.
282 ft. **Site 2 of 5 in cluster B**

Relative:
Lower

Actual:
1189 ft.

San Bern. Co. Permit:

Name:	BECK'S AUTOMOTIVE
Address:	27221 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0001409
Owner:	RICHARD BECK
Permit Number:	PT0000953
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2003

Name:	BECK'S AUTOMOTIVE
Address:	27221 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0001409
Owner:	RICHARD BECK
Permit Number:	PT0000947
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	08/31/2003

B22 **D & M ENTERPRISES** **EDR Hist Auto** **1021294036**
SSW **27219 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.054 mi.
283 ft. **Site 3 of 5 in cluster B**

Relative:
Lower

Actual:
1189 ft.

EDR Hist Auto

Year:	Name:	Type:
1991	D & M ENTERPRISES	Automotive Transmission Repair Shops
1992	D & M ENTERPRISES	Automotive Transmission Repair Shops
1993	D & M ENTERPRISES	Automotive Transmission Repair Shops
1994	D & M ENTERPRISES	Automotive Transmission Repair Shops
1995	D & M ENTERPRISES	Automotive Transmission Repair Shops
1996	D & M ENTERPRISES	Automotive Transmission Repair Shops
1997	D & M ENTERPRISES	Automotive Transmission Repair Shops
1998	D & M ENTERPRISES	Automotive Transmission Repair Shops
1999	D & M ENTERPRISES	Automotive Transmission Repair Shops
2001	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2002	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2003	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2012	ADVANCED CAR CARE	Carwashes
2013	ADVANCED CAR CARE	Carwashes
2014	ADVANCED CAR CARE	Carwashes

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B23
SSW
< 1/8
0.054 mi.
283 ft.

ADVANCED CAR CARE
27219 E 5TH ST
HIGHLAND, CA 92346

Site 4 of 5 in cluster B

Relative:
Lower

Actual:
1189 ft.

CA San Bern. Co. Permit **S106910788**
N/A

San Bern. Co. Permit:

Name:	ADVANCED CAR CARE
Address:	27219 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0014347
Owner:	GERARDO MENDOZA
Permit Number:	PT0025213
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	05/31/2014

Name:	ADVANCED CAR CARE
Address:	27219 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0014347
Owner:	GERARDO MENDOZA
Permit Number:	PT0025212
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	05/31/2014

Name:	D & M TRANSMISSIONS
Address:	27219 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0002602
Owner:	BETTEN, DOUG
Permit Number:	PT0006185
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2003

Name:	D & M TRANSMISSIONS
Address:	27219 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0002602
Owner:	BETTEN, DOUG
Permit Number:	PT0006184
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	08/31/2003

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C24
SW
< 1/8
0.059 mi.
311 ft.

ASTRO RENTAL EQUIPMENT
27111 5TH ST
HIGHLAND, CA 92346

Site 6 of 6 in cluster C

CA HIST UST **U001575090**
N/A

Relative:
Lower

Actual:
1183 ft.

HIST UST:

Name:	ASTRO RENTAL EQUIPMENT
Address:	27111 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000005957
Facility Type:	Other
Other Type:	RENTAL FUEL STATION
Contact Name:	LOUIS ROZEMA
Telephone:	7148643130
Owner Name:	ASTRO RENTAL EQUIPMENT
Owner Address:	27111 E. FIFTH ST.
Owner City,St,Zip:	HIGHLAND, CA 92346
Total Tanks:	0002
Tank Num:	001
Container Num:	2
Year Installed:	1980
Tank Capacity:	00003000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	I
Year Installed:	1980
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

25
NE
< 1/8
0.059 mi.
314 ft.

BETTY WALSH
27329 6TH STREET
HIGHLAND, CA 92346

RCRA NonGen / NLR **1026717939**
CAC003106492

Relative:
Higher

Actual:
1197 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20210219
Handler Name:	BETTY WALSH	
Handler Address:		27329 6TH STREET
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAC003106492
Contact Name:		BETTY WALSH
Contact Address:		555 CENTER STREET
Contact City,State,Zip:		REDLANDS, CA 92373
Contact Telephone:		909-831-8599
Contact Fax:		Not reported
Contact Email:		SLYOUNG85@GMAIL.COM
Contact Title:		Not reported

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BETTY WALSH (Continued) **1026717939**

EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	555 CENTER STREET
Mailing City,State,Zip:	REDLANDS, CA 92373
Owner Name:	BETTY WALSH
Owner Type:	Other
Operator Name:	BETTY WALSH
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported

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BETTY WALSH (Continued) **1026717939**

Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210226
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BETTY WALSH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	555 CENTER STREET
Owner/Operator City,State,Zip:	REDLANDS, CA 92373
Owner/Operator Telephone:	909-831-8599
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BETTY WALSH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	555 CENTER STREET
Owner/Operator City,State,Zip:	REDLANDS, CA 92373
Owner/Operator Telephone:	909-831-8599
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20210219
Handler Name: BETTY WALSH	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299

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BETTY WALSH (Continued) **1026717939**

NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E26 **MARY BETTEN PROPERTY** **RCRA NonGen / NLR** **1026811526**
SSW **27213 5TH STREET** **CAC003123992**
< 1/8 **HIGHLAND, CA 92346**
0.070 mi.
372 ft. **Site 1 of 5 in cluster E**

Relative: **Lower**

Actual: **1190 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20210610
Handler Name:	MARY BETTEN PROPERTY	
Handler Address:		27213 5TH STREET
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAC003123992
Contact Name:		MARY BETTEN
Contact Address:		2930 PEPPER STREET
Contact City,State,Zip:		HIGHLAND, CA 92346
Contact Telephone:		909-709-1483
Contact Fax:		Not reported
Contact Email:		MARYZLEAF@AOL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		2930 PEPPER STREET
Mailing City,State,Zip:		HIGHLAND, CA 92346
Owner Name:		MARY BETTEN
Owner Type:		Other
Operator Name:		MARY BETTEN
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported

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MARY BETTEN PROPERTY (Continued) **1026811526**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210618
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MARY BETTEN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2930 PEPPER STREET
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-709-1483
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner

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MARY BETTEN PROPERTY (Continued) **1026811526**

Owner/Operator Name:	MARY BETTEN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2930 PEPPER STREET
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-709-1483
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20210610
Handler Name: MARY BETTEN PROPERTY	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E27 **D & M TRANSMISSIONS** **EDR Hist Auto** **1020420071**
SSW **27213 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.070 mi.
372 ft. **Site 2 of 5 in cluster E**

Relative: EDR Hist Auto
Lower

Actual:
1190 ft.

Year:	Name:	Type:
2004	D & M ENTERPRISES	Automotive Transmission Repair Shops
2004	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2005	D & M ENTERPRISES	Automotive Transmission Repair Shops
2005	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2006	D & M ENTERPRISES	Automotive Transmission Repair Shops
2006	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2007	D & M ENTERPRISES	Automotive Transmission Repair Shops
2007	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2008	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2008	D & M ENTERPRISES	Automotive Transmission Repair Shops
2009	D & M TRANSMISSIONS	Automotive Transmission Repair Shops

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D & M TRANSMISSIONS (Continued) **1020420071**

2010	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2011	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2012	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2013	D & M TRANSMISSIONS	Automotive Transmission Repair Shops
2014	D & M TRANSMISSIONS	Automotive Transmission Repair Shops

---

E28 **ADVANCED CAR CARE** **CA CERS HAZ WASTE** **S116287703**
SSW **27213 5TH ST** **CA San Bern. Co. Permit** **N/A**
< 1/8 **HIGHLAND, CA 92346** **CA CERS**
0.070 mi. **CA HWTS**
372 ft. **Site 3 of 5 in cluster E**

Relative:
Lower

Actual:
1190 ft.

CERS HAZ WASTE:

Name:	ADVANCED CAR CARE
Address:	27213 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	89857
CERS ID:	10455616
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	ADVANCED CAR CARE
Address:	27213 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0015286
Owner:	GERARDO MENDOZA
Permit Number:	PT0026631
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	03/31/2022

Name:	ADVANCED CAR CARE
Address:	27213 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0015286
Owner:	GERARDO MENDOZA
Permit Number:	PT0026630
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	03/31/2022

CERS:

Name:	ADVANCED CAR CARE
Address:	27213 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	89857
CERS ID:	10455616
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	89857
Site Name:	ADVANCED CAR CARE
Violation Date:	01-04-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

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ADVANCED CAR CARE (Continued) **S116287703**

Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/04/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Observed incomplete hazardous waste label on 55 gallon drum of waste toxic solids.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 89857
Site Name: ADVANCED CAR CARE
Violation Date: 01-04-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 01/11/2017. Business Plan was not annually reviewed and electronically certified as complete and accurate.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-29-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Routine inspection-new facility-moved from other location
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-04-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-18-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-18-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW

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ADVANCED CAR CARE (Continued) **S116287703**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-04-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-29-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Routine inspection-new facility-moved from other location
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 89857
Site Name: ADVANCED CAR CARE
Site Address: 27213 5TH ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 01-04-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 89857
Site Name: ADVANCED CAR CARE
Site Address: 27213 5TH ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 01-04-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 89857
Facility Name: ADVANCED CAR CARE
Env Int Type Code: HWG
Program ID: 10455616
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 34.107670
Longitude: -117.210520

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ADVANCED CAR CARE (Continued) **S116287703**

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	27213 E 5TH
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Gerardo Mendoza, Jr
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	GERARDO MENDOZA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 379-3276,
Affiliation Type Desc:	Parent Corporation
Entity Name:	ADVANCED CAR CARE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	GERARDO MENDOZA
Entity Title:	Not reported
Affiliation Address:	27213 E 5TH
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	GERARDO MENDOZA
Entity Title:	Not reported
Affiliation Address:	27213 E 5th st
Affiliation City:	highland
Affiliation State:	CA

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ADVANCED CAR CARE (Continued) **S116287703**

Affiliation Country:	United States
Affiliation Zip:	92374
Affiliation Phone:	(909) 862-2938,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Document Preparer
Entity Name:	Gerardo Mendoza, Jr
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

HWTS:

Name:	MARY BETTEN PROPERTY
Address:	27213 5TH STREET
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAC003123992
Inactive Date:	09/09/2021
Create Date:	06/10/2021
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	2930 PEPPER STREET
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	MARY BETTEN
Owner Address:	2930 PEPPER STREET
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 92346
Contact Name:	MARY BETTEN
Contact Address:	2930 PEPPER STREET
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	34.10766802
Longitude:	-117.21052

NAICS:

EPA ID:	CAC003123992
Create Date:	2021-06-10 11:12:10.597
NAICS Code:	99999
NAICS Description:	Not Otherwise Specified

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ADVANCED CAR CARE (Continued) **S116287703**

Issued EPA ID Date:	2021-06-10 11:12:10.60700
Inactive Date:	Not reported
Facility Name:	MARY BETTEN PROPERTY
Facility Address:	27213 5TH STREET
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92346

Name:	ADVANCED CAR CARE
Address:	27213 5TH ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000390143
Inactive Date:	Not reported
Create Date:	10/09/2013
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	1455 ELLIOTT CT
Mailing Address 2:	Not reported
Mailing City,State,Zip:	REDLANDS, CA 923740000
Owner Name:	GERARDO MENDOZA
Owner Address:	1455 ELLIOTT CT
Owner Address 2:	Not reported
Owner City,State,Zip:	REDLANDS, CA 923740000
Contact Name:	GERARDO MENDOZA
Contact Address:	1455 ELLIOTT CT
Contact Address 2:	Not reported
City,State,Zip:	REDLANDS, CA 92374
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.107669
Longitude:	-117.210519

NAICS:

EPA ID:	CAL000390143
Create Date:	2013-10-09 13:18:14.973
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2013-10-09 13:18:14.95700
Inactive Date:	Not reported
Facility Name:	ADVANCED CAR CARE
Facility Address:	27213 5TH ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92346

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E29
SSW
< 1/8
0.070 mi.
372 ft.

ADVANCED CAR CARE
27213 5TH ST
HIGHLAND, CA 92346

Site 4 of 5 in cluster E

RCRA NonGen / NLR | **1024840876**
CAL000390143

Relative:
Lower

Actual:
1190 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20131009
Handler Name:	ADVANCED CAR CARE	
Handler Address:		27213 5TH ST
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAL000390143
Contact Name:		GERARDO MENDOZA
Contact Address:		419 RUBY AVE
Contact City,State,Zip:		REDLANDS, CA 92374
Contact Telephone:		909-379-3276
Contact Fax:		000-000-0000
Contact Email:		JERRYMENDOZA24@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		419 RUBY AVE
Mailing City,State,Zip:		REDLANDS, CA 92374-0000
Owner Name:		GERARDO MENDOZA
Owner Type:		Other
Operator Name:		GERARDO MENDOZA
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

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ADVANCED CAR CARE (Continued) **1024840876**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GERARDO MENDOZA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	419 RUBY AVE
Owner/Operator City,State,Zip:	REDLANDS, CA 92374-0000
Owner/Operator Telephone:	909-379-3276
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GERARDO MENDOZA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	419 RUBY AVE
Owner/Operator City,State,Zip:	REDLANDS, CA 92374
Owner/Operator Telephone:	909-379-3276
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

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ADVANCED CAR CARE (Continued) **1024840876**

Historic Generators:
- Receive Date: 20131009
- Handler Name: ADVANCED CAR CARE
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 811111
- NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

F30 **PENSKE** **RCRA NonGen / NLR** **1025860751**
WSW **27056 5TH ST** **CAC003041416**
< 1/8 **HIGHLAND, CA 92346**
0.072 mi.
379 ft. **Site 1 of 2 in cluster F**

Relative: **Lower**

Actual: **1178 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 20191101
- Handler Name: PENSKE
- Handler Address: 27056 5TH ST
- Handler City,State,Zip: HIGHLAND, CA 92346-4210
- EPA ID: CAC003041416
- Contact Name: SHUAN LONG
- Contact Address: 2675 MORGANTOWN RD
- Contact City,State,Zip: READING, PA 19607-9676
- Contact Telephone: 440-349-2700
- Contact Fax: Not reported
- Contact Email: SLONG@ERTSONLINE.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 2675 MORGANTOWN RD
- Mailing City,State,Zip: READING, PA 19607-9676
- Owner Name: PENSKE PEARLMAN

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PENSKE (Continued) **1025860751**

Owner Type:	Other
Operator Name:	SHUAN LONG
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20191108
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

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PENSKE (Continued) **1025860751**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: SHUAN LONG
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2675 MORGANTOWN RD
Owner/Operator City,State,Zip: READING, PA 19607-9676
Owner/Operator Telephone: 440-349-2700
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PENSKE PEARLMAN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2675 MORGANTOWN RD
Owner/Operator City,State,Zip: READING, PA 19607-9676
Owner/Operator Telephone: 440-349-2700
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20191101
Handler Name: PENSKE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 336390
NAICS Description: OTHER MOTOR VEHICLE PARTS MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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B31 **AMERICAN PRIDE PRINTING** **CA San Bern. Co. Permit** **S106910672**
South **27239 5TH ST A** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.081 mi.
426 ft. **Site 5 of 5 in cluster B**

Relative: **Higher**
Actual: **1194 ft.**

San Bern. Co. Permit:

Name:	AMERICAN PRIDE PRINTING
Address:	27239 5TH ST A
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0000909
Owner:	MILLER, MARTY
Permit Number:	PT0006182
Permit Category:	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	07/31/2004

Name:	AMERICAN PRIDE PRINTING
Address:	27239 5TH ST A
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0000909
Owner:	MILLER, MARTY
Permit Number:	PT0006183
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status:	INACTIVE
Expiration Date:	07/31/2003

G32 **MATHESON TRUCKING INC** **RCRA NonGen / NLR** **1024824046**
ESE **27356 5TH ST** **CAL000346163**
< 1/8 **HIGHLAND, CA 92346**
0.093 mi.
489 ft. **Site 1 of 2 in cluster G**

Relative: **Higher**
Actual: **1198 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20090827
Handler Name:	MATHESON TRUCKING INC
Handler Address:	27356 5TH ST
Handler City,State,Zip:	HIGHLAND, CA 92346-4215
EPA ID:	CAL000346163
Contact Name:	VALERIE TULLOS
Contact Address:	9785 GOETHE ROAD
Contact City,State,Zip:	SACRAMENTO, CA 95827
Contact Telephone:	916-504-4729
Contact Fax:	916-504-4829
Contact Email:	VTULLOS@MATHESONINC.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	9785 GOETHE ROAD
Mailing City,State,Zip:	SACRAMENTO, CA 95827-3559
Owner Name:	MATHESON TRUCKING INC

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MATHESON TRUCKING INC (Continued) **1024824046**

Owner Type:	Other
Operator Name:	VALERIE TULLOS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

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MATHESON TRUCKING INC (Continued) **1024824046**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	VALERIE TULLOS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	9785 GOETHE ROAD
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95827
Owner/Operator Telephone:	916-504-4729
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MATHESON TRUCKING INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	9785 GOETHE ROAD
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95827-3559
Owner/Operator Telephone:	916-504-4729
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20090827
Handler Name: MATHESON TRUCKING INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	48849
NAICS Description:	OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

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G33 **NINA LINCK** **CA SWEEPS UST** **S102801264**
ESE **27356 5TH ST** **CA San Bern. Co. Permit** **N/A**
< 1/8 **HIGHLAND, CA 92346** **CA CERS**
0.093 mi.
489 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
1198 ft.

SWEEPS UST:

Name:	NINA LINCK
Address:	27356 5TH ST
City:	HIGHLAND
Status:	Not reported
Comp Number:	7356
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-007356-000001
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	UNKNOWN USE
Number Of Tanks:	1

San Bern. Co. Permit:

Name:	MATHESON POSTAL SERVICES INC
Address:	27356 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0012757
Owner:	MATHESON TRUCKING INC.
Permit Number:	PT0022351
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	11/30/2022

Name:	MATHESON POSTAL SERVICES INC
Address:	27356 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0012757
Owner:	MATHESON TRUCKING INC.
Permit Number:	PT0022350
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	11/30/2015

CERS:

Name:	MATHESON POSTAL SERVICES INC
Address:	27356 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	133402
CERS ID:	10119184
CERS Description:	Chemical Storage Facilities

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NINA LINCK (Continued) **S102801264**

Violations:

Site ID:	133402
Site Name:	MATHESON POSTAL SERVICES INC
Violation Date:	01-07-2015
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes:	Returned to compliance on 01/09/2015. FAILURE TO SUBMIT BUSINESS PLAN EVERY 12 MONTHS. LAST BUSINESS PLAN ON FILE IS DATED 10/12/12.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	133402
Site Name:	MATHESON POSTAL SERVICES INC
Violation Date:	01-08-2018
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 01/10/2018. The hazardous materials business plan submitted via CERS did not fully and accurately reflect the observations from the inspection conducted on 01/08/2018. Make the following updates and resubmit a full hazardous materials business plan via CERS. -The business activities page needs to be updated to reflect that this facility does not generate hazardous waste. -The hazardous materials inventory disclosed in CERS needs to be updated to reflect the inventory in this report. -The Emergency Response/Contingency Plan Template needs to include a specific telephone number on the first page, under the Local UPA/CUPA Emergency Response Telephone Number. The Telephone number is 909-386-8425.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-05-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-07-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION

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NINA LINCK (Continued) **S102801264**

Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-08-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-07-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 133402
Site Name: MATHESON POSTAL SERVICES INC
Site Address: 27356 5TH ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 01-07-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 133402
Facility Name: MATHESON POSTAL SERVICES INC
Env Int Type Code: HMBP
Program ID: 10119184
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 34.109051
Longitude: -117.207329

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

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NINA LINCK (Continued) **S102801264**

Affiliation Type Desc:	Document Preparer
Entity Name:	Valerie W Tullos
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Matheson Postal Services inc
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 504-4729,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Valerie Tullos
Entity Title:	Not reported
Affiliation Address:	9785 Goethe Rd
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95827
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	9785 GOETHE RD
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95827
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Matheson Postal Services
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Valerie W Tullos
Entity Title:	Facilities Management
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

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NINA LINCK (Continued) **S102801264**

Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: MATHESON TRUCKING INC.
Entity Title: Not reported
Affiliation Address: 9785 GOETHE RD
Affiliation City: SACRAMENTO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95827
Affiliation Phone: (916) 504-4729,

H34 **HCLM** **EDR Hist Auto** **1021001219**
NNE **7750 PALM AVE STE N** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.097 mi.
513 ft. **Site 1 of 2 in cluster H**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
1195 ft. 1998 HCLM Gasoline Service Stations

H35 **GREEN FROG** **CA San Bern. Co. Permit** **S110496978**
NNE **7750 PALM AVE UNIT K** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.097 mi.
513 ft. **Site 2 of 2 in cluster H**

Relative: San Bern. Co. Permit:
Higher
Name: GREEN FROG
Actual: Address: 7750 PALM AVE UNIT K
1195 ft. City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0013258
Owner: RUTLAND, RUSSELL
Permit Number: PT0023406
Permit Category: BULK CO2 AT RETAIL FOOD FACILITIES
Facility Status: INACTIVE
Expiration Date: 11/30/2011

I36 **SB PETROLEUM INC** **RCRA NonGen / NLR** **1024815395**
SSE **27323 5TH ST** **CAL000313282**
< 1/8 **HIGHLAND, CA 92346**
0.099 mi.
522 ft. **Site 1 of 14 in cluster I**

Relative: RCRA NonGen / NLR:
Higher
Date Form Received by Agency: 20061106
Actual: Handler Name: SB PETROLEUM INC
1198 ft. Handler Address: 27323 5TH ST
Handler City,State,Zip: HIGHLAND, CA 92346-4214
EPA ID: CAL000313282

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SB PETROLEUM INC (Continued) **1024815395**

Contact Name:	DEBRA ANDREWS
Contact Address:	422 WIER ROAD
Contact City,State,Zip:	SAN BERNARDINO, CA 92408
Contact Telephone:	619-922-3970
Contact Fax:	909-478-0852
Contact Email:	ANDREWS.DEBRA@ROCKETMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	422 WIER RD
Mailing City,State,Zip:	SAN BERNARDINO, CA 92406
Owner Name:	SB PETROLEUM
Owner Type:	Other
Operator Name:	DEBRA ANDREWS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No

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SB PETROLEUM INC (Continued) **1024815395**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SB PETROLEUM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	422 WIER RD
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92408-0000
Owner/Operator Telephone:	619-922-3970
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DEBRA ANDREWS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	422 WIER ROAD
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92408
Owner/Operator Telephone:	619-922-3970
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20061106
Handler Name: SB PETROLEUM INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

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SB PETROLEUM INC (Continued) **1024815395**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44813
NAICS Description: CHILDREN'S AND INFANTS' CLOTHING STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I37 **ARCO AM PM #5617** **CA LUST** **S104405148**
SSE **27323 5TH ST** **CA Cortese** **N/A**
< 1/8 **HIGHLAND, CA 92346** **CA HIST CORTESE**
0.099 mi. **CA NPDES**
522 ft. **Site 2 of 14 in cluster I** **CA CIWQS**
CA CERS

Relative:
Higher

Actual:
1198 ft.

LUST:
Name: ARCO AM PM #5617
Address: 27323 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Lead Agency: SAN BERNARDINO COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100636
Global Id: T0607100636
Latitude: 34.107416
Longitude: -117.208057
Status: Completed - Case Closed
Status Date: 03/05/2001
Case Worker: Not reported
RB Case Number: 083603647T
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 99151
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100636
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: valerie.jahn-bull@waterboards.ca.gov
Phone Number: 9517824903

LUST:
Global Id: T0607100636

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ARCO AM PM #5617 (Continued) **S104405148**

Action Type: Other
Date: 11/18/1999
Action: Leak Discovery

Global Id: T0607100636
Action Type: Other
Date: 02/04/2000
Action: Leak Reported

Global Id: T0607100636
Action Type: Other
Date: 11/18/1999
Action: Leak Stopped

LUST:
Global Id: T0607100636
Status: Open - Case Begin Date
Status Date: 11/18/1999

Global Id: T0607100636
Status: Open - Site Assessment
Status Date: 11/18/1999

Global Id: T0607100636
Status: Completed - Case Closed
Status Date: 03/05/2001

LUST REG 8:

Name:	ARCO AM PM #5617
Address:	27323 5TH ST
City:	HIGHLAND
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083603647T
Local Case Num:	99151
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	PALM
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0607100636
How Stopped Date:	11/18/1999
Enter Date:	3/9/2000
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	11/18/1999
Enforcement Date:	Not reported

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ARCO AM PM #5617 (Continued) **S104405148**

Close Date:	3/5/2001
Date Prelim Assessment Workplan Submitted:	11/18/1999
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/9/2000
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.108163
Longitude:	-117.176615
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	LH6
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	No
Summary:	UNDER INVESTIGATION

CORTESE:

Name:	ARCO AM PM #5617
Address:	27323 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100636
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported

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ARCO AM PM #5617 (Continued) **S104405148**

File Name: Active Open

HIST CORTESE:

edr_fname:	ARCO AM PM #5617
edr_fadd1:	27323
City,State,Zip:	HIGHLAND, CA 92346
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083603647T

NPDES:

Name:	CAR WASH AND FAST FOOD RESTAURANT
Address:	27323 5TH ST
City,State,Zip:	HIGHLAND, CA 91739
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	Not reported
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Returned
Status Date:	05/27/2010
Operator Name:	Ahd Haddad
Operator Address:	29848 Live Oak Canyon Rd
Operator City:	Redlands
Operator State:	California
Operator Zip:	92371

CIWQS:

Name:	CARWASH & RESTAURANT
Address:	27323 5TH ST
City,State,Zip:	HIGHLAND, CA 91739
Agency:	Crossroad Petroleum
Agency Address:	422 Wier Rd Front Office, San Bernardion, CA 92408
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 36C360126

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ARCO AM PM #5617 (Continued) **S104405148**

NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	12/29/2010
Termination Date:	02/21/2013
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.1077
Longitude:	-117.20855

CERS:

Name:	ARCO AM PM #5617
Address:	27323 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	201041
CERS ID:	T0607100636
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824903,

I38 **BP NORTH AMERICA** **EDR Hist Auto** **1021170639**
SSE **27323 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.099 mi.
522 ft. **Site 3 of 14 in cluster I**

Relative: EDR Hist Auto
Higher

Actual: **1198 ft.**

Year:	Name:	Type:
2010	BP NORTH AMERICA	Gasoline Service Stations, NEC
2011	BP NORTH AMERICA	Gasoline Service Stations, NEC

I39 **SB PETROLEUM, INC #82637** **CA CERS HAZ WASTE** **S113176137**
SSE **27323 5TH ST** **CA CERS TANKS** **N/A**
< 1/8 **HIGHLAND, CA 92346** **CA HAZNET**
0.099 mi. **CA San Bern. Co. Permit**
522 ft. **Site 4 of 14 in cluster I** **CA CERS**
CA HWTS

Relative:
Higher

Actual:
1198 ft.

CERS HAZ WASTE:

Name:	SB PETROLEUM, INC #82637
Address:	27323 5TH ST

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

City,State,Zip: HIGHLAND, CA 92346
Site ID: 91429
CERS ID: 10035220
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: SB PETROLEUM, INC #82637
Address: 27323 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 91429
CERS ID: 10035220
CERS Description: Underground Storage Tank

HAZNET:
Name: BP WEST COAST PRODUCTS LLC 5617
Address: 27323 5TH ST
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346
Contact: JACK OMAN WASTE SPECIALIST
Telephone: 7146703958
Mailing Name: Not reported
Mailing Address: PO BOX 80249

Year: 2006
Gepaid: CAR000103671
TSD EPA ID: CAD008302903
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1

Year: 2006
Gepaid: CAR000103671
TSD EPA ID: CAD008302903
CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 0.125

Year: 2006
Gepaid: CAR000103671
TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons: 0.21

Year: 2005
Gepaid: CAR000103671
TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: R01 - Recycler
Tons: 2.394

Year: 2005

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Gepaid: CAR000103671
TSD EPA ID: CAD008302903
CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 0.225

Year: 2005
Gepaid: CAR000103671
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 0.038

Year: 2005
Gepaid: CAR000103671
TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: -
Tons: 0.0336

Year: 2004
Gepaid: CAR000103671
TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: R01 - Recycler
Tons: 0.1554

Year: 2004
Gepaid: CAR000103671
TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: -
Tons: 0.1092

Year: 2004
Gepaid: CAR000103671
TSD EPA ID: CAD008302903
CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 0.2075

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2003
Gen EPA ID: CAR000103671

Shipment Date: 20031209
Creation Date: 8/12/2004 8:09:46
Receipt Date: 20031215
Manifest ID: 22799155
Trans EPA ID: CAD983584681

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20031105
Creation Date:	8/9/2004 8:48:13
Receipt Date:	20031107
Manifest ID:	22797473
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20031105
Creation Date:	8/20/2004 8:27:39
Receipt Date:	20031107
Manifest ID:	22797475
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030409
Creation Date:	7/13/2003 18:31:11
Receipt Date:	20030410
Manifest ID:	22360137
Trans EPA ID:	CAD983584681
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030407
Creation Date:	6/28/2003 18:31:06
Receipt Date:	Not reported
Manifest ID:	22360137
Trans EPA ID:	CAD983584681
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	- Not reported
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Additional Info:

Year:	2004
Gen EPA ID:	CAR000103671
Shipment Date:	20041231
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20050105
Manifest ID:	23419551
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	- Not reported
Quantity Tons:	0.0042
Waste Quantity:	1
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041230
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20050105
Manifest ID:	24036092
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	- Not reported
Quantity Tons:	0.0042
Waste Quantity:	1
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041229
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20041230
Manifest ID:	24036090
Trans EPA ID:	CAT080016116

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041228
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20041230
Manifest ID:	23419565
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	- Not reported
Quantity Tons:	0.0084
Waste Quantity:	2
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041227
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20041230
Manifest ID:	23419550
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Meth Code:	- Not reported
Quantity Tons:	0.0168
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041226
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20041230
Manifest ID:	23419549
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	- Not reported
Quantity Tons:	0.0252
Waste Quantity:	6
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041224
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20041230
Manifest ID:	24036079
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	- Not reported
Quantity Tons:	0.042
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Shipment Date:	20041109
Creation Date:	1/20/2005 18:31:32
Receipt Date:	20041117
Manifest ID:	24098770
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041109
Creation Date:	2/17/2005 18:32:22
Receipt Date:	20041111
Manifest ID:	23867294
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	R01 - Recycler
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040623
Creation Date:	11/1/2004 12:36:11
Receipt Date:	20040625
Manifest ID:	23867484
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	R01 - Recycler
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAR000103671
Shipment Date:	20021106
Creation Date:	2/13/2003 18:31:35
Receipt Date:	20021114
Manifest ID:	22168690
Trans EPA ID:	CAD983584681
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020718
Creation Date:	9/18/2002 18:32:45
Receipt Date:	20020724
Manifest ID:	21864497
Trans EPA ID:	CAD983584681
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAR000103671
Shipment Date:	20061019
Creation Date:	3/30/2007 13:33:40
Receipt Date:	20061023
Manifest ID:	400096413FLE
Trans EPA ID:	CAR000165175
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061019
Creation Date:	6/29/2007 18:30:27
Receipt Date:	20061028
Manifest ID:	000096413FLE
Trans EPA ID:	CAR000165175
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061019
Creation Date:	3/30/2007 13:32:27
Receipt Date:	20061025
Manifest ID:	000096416FLE
Trans EPA ID:	CAR000165175
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060626
Creation Date:	9/8/2006 18:31:48
Receipt Date:	20060705
Manifest ID:	25174124
Trans EPA ID:	CAR000165175
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060213

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Creation Date:	5/27/2006 18:30:56
Receipt Date:	20060220
Manifest ID:	24857545
Trans EPA ID:	CAR000165175
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAR000103671
Shipment Date:	20050824
Creation Date:	12/16/2005 18:31:03
Receipt Date:	20050829
Manifest ID:	24472750
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.63
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050824
Creation Date:	12/16/2005 18:31:03
Receipt Date:	20050829
Manifest ID:	24472750
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050824
Creation Date:	11/23/2005 18:30:57
Receipt Date:	20050829
Manifest ID:	24472751
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	ONYX ENVIRONMENTAL
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050218
Creation Date:	6/2/2005 18:30:59
Receipt Date:	20050222
Manifest ID:	22247198
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	R01 - Recycler

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050218
Creation Date:	6/2/2005 18:30:59
Receipt Date:	20050222
Manifest ID:	22247198
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	EXEM
Meth Code:	R01 - Recycler
Quantity Tons:	0.038
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050218
Creation Date:	6/2/2005 18:30:59
Receipt Date:	20050222
Manifest ID:	24327120
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SVCS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	R01 - Recycler
Quantity Tons:	1.26
Waste Quantity:	300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Shipment Date:	20050218
Creation Date:	6/2/2005 18:30:59
Receipt Date:	20050222
Manifest ID:	24327150
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SVCS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	R01 - Recycler
Quantity Tons:	0.021
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050218
Creation Date:	6/2/2005 18:30:59
Receipt Date:	20050222
Manifest ID:	24327120
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SVCS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	R01 - Recycler
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050218
Creation Date:	4/3/2005 18:31:55
Receipt Date:	20050223
Manifest ID:	23868822
Trans EPA ID:	CAD983584681
Trans Name:	BELSHIRE ENVIRONMENTAL SVCS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD0D8302903

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Trans Name:	ONYX ENVIRONMENTAL
TSDF Alt EPA ID:	CAD008302903
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050114
Creation Date:	4/20/2006 18:32:04
Receipt Date:	20050115
Manifest ID:	24036153
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	EXEM
Meth Code:	- Not reported
Quantity Tons:	0.0042
Waste Quantity:	1
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

San Bern. Co. Permit:

Name:	SB PETROLEUM, INC #82637
Address:	27323 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0000883
Owner:	SB PETROLEUM, INC
Permit Number:	PT0010852
Permit Category:	REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status:	ACTIVE
Expiration Date:	01/31/2022

Name:	SB PETROLEUM, INC #82637
Address:	27323 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0000883
Owner:	SB PETROLEUM, INC

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Permit Number: PT0010853
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 01/31/2022

Name: SB PETROLEUM, INC #82637
Address: 27323 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0000883
Owner: SB PETROLEUM, INC
Permit Number: PT0010854
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 01/31/2022

Name: SB PETROLEUM, INC #82637
Address: 27323 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0000883
Owner: SB PETROLEUM, INC
Permit Number: PT0024157
Permit Category: COMPLEX ANNUAL INSP VPH/ > 8 DISP (PER TANK)
Facility Status: ACTIVE
Expiration Date: 01/31/2022

Name: SB PETROLEUM, INC #82637
Address: 27323 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0000883
Owner: SB PETROLEUM, INC
Permit Number: PT0024158
Permit Category: COMPLEX ANNUAL INSP VPH/ > 8 DISP (PER TANK)
Facility Status: ACTIVE
Expiration Date: 01/31/2022

Name: SB PETROLEUM, INC #82637
Address: 27323 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0000883
Owner: SB PETROLEUM, INC
Permit Number: PT0024159
Permit Category: COMPLEX ANNUAL INSP VPH/ > 8 DISP (PER TANK)
Facility Status: ACTIVE
Expiration Date: 01/31/2022

Name: SB PETROLEUM, INC #82637
Address: 27323 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0000883
Owner: SB PETROLEUM, INC
Permit Number: PT0004699
Permit Category: HAZMAT HANDLER, UST ONLY - PER YEAR

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Facility Status: ACTIVE
Expiration Date: 01/31/2022

Name: SB PETROLEUM, INC #82637
Address: 27323 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0000883
Owner: SB PETROLEUM, INC
Permit Number: PT0013707
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status: ACTIVE
Expiration Date: 01/31/2022

CERS:
Name: SB PETROLEUM, INC #82637
Address: 27323 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 91429
CERS ID: 10035220
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-14-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 02/10/2014. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) THERE ARE NO LABELS ON THE DRUMS AT THE START OF THE HW INSPECION. DISPOSE OF WASTE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-08-2018
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program -General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 01/28/2020. Failure to have a written monitoring program with monitoring procedures and response plan (CHSC 25286(a)) OBSERVATION: UST MONITORING PLAN MAP OF 7/25/2017 IN CERS LACKS DETAIL. COMPLIANCE: IDENTIFY LEAK DETECTION EQUIPMENT AND LOCATION. RESUBMIT IN CERS
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-14-2014
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Violation Description:	Failure to comply with one or more of the operating permit conditions.
Violation Notes:	Returned to compliance on 01/13/2015. THE 91 UST MLLD FAILED.(PRE-2004 USTS). PLEASE REPLACE THIS MLLD AND RETEST IT WITHIN 7 DAYS. THE VR 323 SENSOR IN THE 91 FILL SUMP (PRE-2004 USTS) DID NOT ENABLE POSITIVE SHUTDOWN WHEN TESTED. IT WAS CLEANED AND RETESTED-POSITIVE SHUTDOWN ENABLED-VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	02-01-2021
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	"Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes:	Returned to compliance on 02/01/2021. CORRECTIVE ACTION: The spill bucket testing was conducted this date. Conduct the system certification every twelve (12) months. The next due date will remain in January. This violation has been corrected. OBSERVATION: The previous Annual Spill Bucket Testing was conducted in January and is a month late.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-14-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 02/10/2014. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) LABEL PLACED ON DRUM TODAY WITH DATE-VIOLATION CORRECTED
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-14-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 02/10/2014. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31) REMOVE RACKS FROM DRUM AREA WITHIN 7 DAYS.

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-14-2014
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems and calibration and maintenance records for such systems.
Violation Notes:	Returned to compliance on 01/13/2015. THE SECONDARY CONTAINMENT TESTING RESULTS DATED 1/27/11 COULD NOT BE LOCATED. PLEASE LOCATE THESE RESULTS WITHIN 30 DAYS AND MAINTAIN A COPY ON SITE.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-12-2016
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description:	Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes:	Returned to compliance on 03/03/2016. SEE VIOLATION 309
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-12-2016
Citation:	HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description:	Failure to comply with one or more of the operating permit conditions.
Violation Notes:	Returned to compliance on 03/03/2016. SMART SENSORS NOT OPERATIONAL AS FOLLOWS:-HIGH LIQUID ALARM TURBINE SHUT DOWN WAS NOT PROGRAMMED FOR ANY SMART SENSORS. CONTRACTOR CORRECTED TODAY. -S6 Diesel Product sensor was X-out. Review of monitoring certification of 2015 and 2014 show that this sensor was missing from system set-up. Tapes from 2013 and 2012 did not have system-setup attached. REMOVAL OF A SENSOR FROM PROGRAMMING CONSTITUTES TAMPERING. WHEN CONTRACTOR PLACED S6 INTO PROGRAMMING. A NO VACUUM ALARM WAS GENERATED. POSSIBLE CORRECTIVE ACTION TO FIND CAUSE OF VACUUM LOSS WITHIN LIN -S3 VAPOR RECOVERY FAILED TO GENERATE A VACUUM ON LINE. CONTRACTOR BELIEVES IT MAY BE A BAD VACUUM SENSOR REQUIREMENT: WITHIN 30 DAYS PROVIDE PLANS FOR CORRECTION. FACILITY MAY OPERATE IN ALARM ONLY FOR S3 AND S6 NO VACUUM. ALL OTHER VACUUM SENSORS MUST PROVIDE TURBINE SHUT DOWN. HIGH LIQUID ALARM MUST CAUSE TURBINE SHUT DOWN FOR ALL SENSORS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-13-2015
Citation:	HSC 6.7 25290.1(d) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(d)
Violation Description:	Failure of a UST system installed on or after July 1, 2004 to be designed and constructed so as to detect the entry of the liquid or vapor-phase of the hazardous substance stored in the primary containment into the secondary containment and capable of detecting water intrusion into the secondary containment.
Violation Notes:	Returned to compliance on 01/13/2015. LIQUID WAS OBSERVED IN SUMPS AND IN UDC'S DURING INSPECTION. COMPLIANCE REQUIREMENT: LIQUID WAS REMOVED DURING INSPECTION. VIOLATION WAS CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-14-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 02/10/2014. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) LABEL PLACED ON DRUM TODAY-VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	02-01-2021
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have current UST Monitoring Plan available on site.
Violation Notes:	CORRECTIVE ACTION: Update and switch the East UST Premium and East UST 87 on the Plot Plan and the West Diesel and Regular 87 and re-submit to the CERS within thirty (30) days. OBSERVATION: The East 87 siphon UST and Premium 91 UST are located at the wrong location of the UST Plot Plan. The VPH West UST Plot Plan has the Regular 87 and Diesel at the wrong locations.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-14-2014
Citation:	HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description:	Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary containment.
Violation Notes:	Returned to compliance on 01/21/2014. THERE IS NO SIGNAGE ON THE HEALY TANK ENCLOSURE. WITHIN 15 DAYS, PLEASE AFFIX THE NFPA LABEL AND SIGNS

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

WHICH READ "WARNING-FLAMMABLE VAPORS" AND "NO SMOKING". THE VR 323 SENSOR IN THE 91 FILL SUMP (PRE-2004 USTS) DID NOT ENABLE POSITIVE SHUTDOWN WHEN TESTED. IT WAS CLEANED AND RETESTED-POSITIVE SHUTDOWN ENABLED-VIOLATION CORRECTED

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-28-2019
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes: Returned to compliance on 01/28/2020. OBSERVATION: Spill bucket for 87 tank #2 was leaking. CORRECTIVE ACTION: Replace spill bucket and retest. Email work order and test results.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-13-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 01/22/2015. CERTIFICATE OF FINANCIAL RESPONSIBILITY LISTED ON CERS WEBSITE EXPIRED ON 3/31/14. COMPLIANCE REQUIREMENT: UPDATE CFR ON CERS WEBSITE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 02-01-2021
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: CORRECTIVE ACTION: Conduct and provide UST Training records to this Agency within thirty (30) days. Sign compliance form indicating that training will be conducted annual and records will be left on site. DO contacted this date and UST Training to be conducted on 2-3-2021.

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

OBSERVATION: UST Training records were only available for 2018.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-14-2014
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes: Returned to compliance on 01/13/2015. THE 91 UST MLLD FAILED (EAST USTS). PLEASE REPLACE AND RETEST THIS MLLD WITHIN 7 DAYS. THE VR 323 SENSOR IN THE 91 FILL SUMP (PRE-2004 USTS) DID NOT ENABLE POSITIVE SHUTDOWN WHEN TESTED. IT WAS CLEANED AND RETESTED-POSITIVE SHUTDOWN ENABLED-VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-28-2020
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes: Returned to compliance on 01/28/2020. OBSERVATION: Owner/Operator failed to meet one or more of the following spill container requirements: install or maintain spill container which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill container, and is resistant to galvanic corrosion; did not perform tightness test at installation, every 12 months thereafter, or within 30 days after a repair; did not have tested using manufacturer's guidelines, industry codes, engineering standards, or method approved by PE, or was not tested by a certified UST service technician; or failed to maintain testing records for 36 months. CORRECTIVE ACTION: Install or repair 87 siphon spill buckets to meet all of the listed requirements, have tightness tested using approved method, by certified UST service technician, and submit documentation to verify compliance. Maintain all testing records for 36 months.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-14-2014

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Citation:	23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description:	Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes:	Returned to compliance on 01/22/2015. THE MONITORING CERTIFICATION REPORT DATED 1/15/13 HAS NOT BEEN SUBMITTED. SUBMIT THIS DOCUMENT WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-14-2014
Citation:	HSC 6.7 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25292(e)
Violation Description:	Failure to install line leak detector on pressurized piping system.
Violation Notes:	Returned to compliance on 01/13/2015. THE 91 UST MLLD (EAST TANK) FAILED WHEN TESTED. PLEASE REPLACE THIS MLLD AND RETEST IT WITHIN 7 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	02-01-2021
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description:	Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes:	Returned to compliance on 02/01/2021. CORRECTIVE ACTION: The annual monitoring system certification was conducted this date. Conduct the system certification every twelve (12) months. The next due date will remain in January. This violation has been corrected. OBSERVATION: The previous Annual Monitoring System certification was conducted in January and is a month late.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-14-2014
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/22/2015. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) THE DESIGNATED OPERATOR STATEMENT HAS NOT BEEN SUBMITTED TO CERS. PLEASE SUBMIT THIS DOCUMENT TO CERS WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-12-2016
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes:	Returned to compliance on 01/12/2016. UST CERS SUBMITTAL HAD MULTIPLE ERRORS IN TANK AND MONITORING PLAN INFORMATION. CORRECTIONS PROVIDED TO Environmental CONTACT DURING MONITORING CERTIFICATION. SIGN AND SUBMIT CERTIFICATE OF COMPLIANCE AS Documentation ONCE CORRECTIONS HAVE BEEN COMPLETED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-13-2015
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes:	Returned to compliance on 01/22/2015. ELECTRONIC LINE LEAK DETECTOR ON CERS SUBMITTAL DIFFERS FROM INFORMATION SUBMITTED ON CERS. COMPLIANCE REQUIREMENT: UPDATE CERS MONITORING PLAN TO REFLECT CORRECT EQUIPMENT. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-13-2015
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems and calibration and maintenance records for such systems.
Violation Notes:	Returned to compliance on 01/22/2015. RECORDS FOR ALARMS ON 12/17/14 AND 1/1/15 NOT OBSERVED IN DO RECORDS. COMPLIANCE REQUIREMENT: SUBMIT CAUSE AND CORRECTIVE ACTIONS FOR SENSOR ALARMS ON THE LISTED DATES. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-12-2016
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	Failure to comply with one or more of the designated operator monthly

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.

Violation Notes: Returned to compliance on 03/03/2016. upload current DO statement to CERS
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-14-2014
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to comply with one or more of the following: conduct secondary containment testing, within six months of installation and every 36 months thereafter, conducted in accordance with proper practices, protocols, or test methods.
Violation Notes: Returned to compliance on 01/23/2014. DEPARTMENT RECORDS SHOW THAT THE LAST SECONDARY CONTAINMENT TESTING FOR THE PRE-2004 USTS WAS DONE ON 1/27/11. THE TESTING WAS APPARENTLY NOT COMPLETE. THE FILL SUMPS, UDCS, SPILL CONTAINERS AND ANNULAR SPACES WERE NOT TESTED AT THAT TIME. REQUIREMENT: PERFORM COMPLETE SECONDARY CONTAINMENT TESTING BY 1/27/14. NOTIFY THE COUNTY FIRE DEPARTMENT PRIOR TO THE TESTING AND SUBMIT THE RESULTS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-14-2014
Citation: 23 CCR 16 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666
Violation Description: Failure of the leak detection equipment to have an audible and visual alarm as required.
Violation Notes: Returned to compliance on 01/13/2015. THE LIGHT DID NOT FLASH ON AND OFF FOR THE OVERFILL ALARM EXTERNAL ENUNCIATOR FOR THE PRE-2004 USTS WHEN TESTED. THIS IS A REPEAT VIOLATION. PLEASE REPAIR THE OVERFILL ALARM EXTERNAL ENUNCIATOR WITHIN 7 DAYS AND RETEST TO CONFIRM THATTHE LIGHT FLASHES ON AND OFF WHEN TESTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-13-2017
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description: Failure to have a properly qualified service technician test leak

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

	detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes:	Returned to compliance on 09/10/2017. COMPLIANCE ACTIVITY(09/10/2017)-CERTIFICATE OF COMPLIANCE SUBMITTED. OBSERVATION- THE BRINE SENSOR (VR 304), LOCATED IN UDC 5/6 FAILED WHEN TESTED. COMPLIANCE REQUIREMENT: SUBMIT A COPY OF THE WORK ORDER DOCUMENTING THE REPLACEMENT AND FUNCTIONALITY OF THE BRINE SENSOR
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-28-2019
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 01/28/2020. OBSERVATION: 91 mechanical leak detector failed. CORRECTIVE ACTION: Replace sensor and retest. Email work order and test results.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-13-2015
Citation:	HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description:	Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary containment.
Violation Notes:	Returned to compliance on 01/16/2015. ANNULAR SENSOR AT 87 MAIN EAST UST FAILED DURING TESTING. SENSOR DID NOT FUNCTION PROPERLY. COMPLIANCE REQUIREMENT: ENSURE FUNCTIONALITY OF ANNULAR SENSORS. YOU MAY REPLACE SENSOR WITH "LIKE FOR LIKE" EQUIPMENT. SUBMIT WORK ORDER COPY AND SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-14-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 02/10/2014. Failure to manage hazardous waste lawfully (CHSC 25154) THERE ARE NO LABELS ON THREE DRUMS-LABELS PLACED ON DRUMS TODAY-VIOLATION CORECTED.

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-28-2019
Citation:	23 CCR 16 2632(c)(2)(A)&(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(c)(2)(A)&(B)
Violation Description:	Failure to continuously monitor the interstitial space of a double-walled tank with an audible and visual alarm system.
Violation Notes:	Returned to compliance on 01/28/2020. OBSERVATION: 87 tank #2 annular sensor was stuck, unable to test. Technician stated he will replace sensor. CORRECTIVE ACTIOIN: Replace sensor and retest. Email work order and test results.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-13-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/22/2015. BUSINESS PLAN UST MONITORING PLAN DID NOT REFLECT UST EQUIPMENT ONSITE. ELECTRONIC LINE LEAK DETECTORS WERE LISTED INCORRECTLY IN CERS. COMPLIANCE REQUIREMENT: UPDATE CERS SUBMITTAL TO REFLECT CURRENT UST EQUIPMENT. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Violation Date:	01-14-2014
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure of the overfill prevention system to meet one of the following requirements: 1. Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or 2. Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Returned to compliance on 01/13/2015. THE OVERFILL ALARM EXTERNAL ENUNCIATOR LIGHT FOR THE PRE-2004 USTS DID NOT FLASH ON AND OFF WHEN TESTED. THIS IS A REPEAT VIOLATION. PLEASE REPLACE THE EXTERNAL ENUNCIATOR FLASHER WITHIN 7 DAYS AND RETEST.

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 01-28-2019
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 01/28/2020. OBSERVATION: Inaccurate UST information. CORRECTIVE ACTION: Update and submit current UST tank information: 1. Tank install dates for tank#1 to #3 is 11/08/1989 and tank #4 to #7 is 01/06/2011.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 91429
Site Name: SB PETROLEUM, INC #82637
Violation Date: 02-01-2021
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: CORRECTIVE ACTION: The VR 323, Vent Box 208 were replaced this date and passed testing. Replace the UST 87 Main within thirty (30) days and send certification documentation to this Agency within thirty (30) days of re-testing. OBSERVATION: The VR 323 for the East UST 87 Main, VR 208 for the VPH Vent Box, and the VR 409 for the East UST 91 Annular did not pass testing. The 409 was observed to be stuck inside the annular space.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-12-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Mont Cert non-vph and vph site. Plans required within 30 days to address vacuum loss. CERs updates to tank and monitoring plan required.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: " "/WASTE INCIDENTAL TO UST OPERATION ONLY INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Eval General Type:	Other/Unknown
Eval Date:	01-28-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	OVERFILL PREVENTION EQUIPMENT TESTING FOR DIESEL TANK
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-13-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITORING CERTIFICATION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-13-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HAZARDOUS MATERIALS UST ONLY INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	" "
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-28-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	WASTE INCIDENTAL UST OPERATION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-28-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	MONT CERT
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-01-2021
Violations Found:	No

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL UST, HM, HW INSPECTIONS. 3 YEAR OVERFILL CONDUCTED.
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	02-01-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	3 YEAR OVERFILL CONDUCTED - DW Vent - ATG PASS 90% - RC Compliance
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-08-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	VPH Hybird site
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-13-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	SB PETROLEUM- UST INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-28-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-28-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	HANDLER UST ONLY
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-13-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	SB PETROLEUM- UST MONITORING CERTIFICATION
Eval Division:	San Bernardino County Fire Department

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	AM PM MINI MARKET 27323 5TH ST HIGHLAND
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-01-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL UST, HM, HW INSPECTIONS. 3 YEAR OVERFILL CONDUCTED.
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-01-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL UST, HM, HW INSPECTIONS. 3 YEAR OVERFILL CONDUCTED.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	03-03-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RE-INSPECTION TO FOLLOW UP ON THE FAILED SENSORS NOTED ON THE PREVIOUS INSPECTION REPORT DATED 1/12/2015.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,

Enforcement Action:

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Site Address:	27323 5TH ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	01-12-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS,
Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Site Address:	27323 5TH ST

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	01-13-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Site Address:	27323 5TH ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	01-13-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Site Address:	27323 5TH ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	01-13-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Site Address:	27323 5TH ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	01-14-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS,

Site ID:	91429
Site Name:	SB PETROLEUM, INC #82637
Site Address:	27323 5TH ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	01-14-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS,

Coordinates:

Site ID:	91429
Facility Name:	SB PETROLEUM, INC #82637
Env Int Type Code:	HWG
Program ID:	10035220
Coord Name:	Not reported
Ref Point Type Desc:	Unknown,
Latitude:	34.107430
Longitude:	-117.208069

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	27323 5TH ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346-4214
Affiliation Phone:	,

Affiliation Type Desc:	UST Tank Owner
Entity Name:	SB PETROLEUM, INC
Entity Title:	Not reported
Affiliation Address:	27323 5TH ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 864-5442,

Affiliation Type Desc:	Environmental Contact
Entity Name:	FRANCISCO MARROGUIN
Entity Title:	Not reported
Affiliation Address:	7073 CENTRAL AVE
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,

Affiliation Type Desc:	Parent Corporation
Entity Name:	Elite Maintenance & Supply, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	SB PETROLEUM, INC.
Entity Title:	Not reported
Affiliation Address:	27323 5TH ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 864-5442,

Affiliation Type Desc:	UST Tank Operator
Entity Name:	SB PETROLEUM, INC
Entity Title:	Not reported
Affiliation Address:	27323 5TH ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 864-5442,

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,

Affiliation Type Desc:	Identification Signer
Entity Name:	FRANCISCO MARROQUIN
Entity Title:	SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	SB PETROLEUM, INC
Entity Title:	Not reported
Affiliation Address:	27323 5TH STREET
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 809-9658,

Affiliation Type Desc:	Operator
Entity Name:	SB PETROLEUM, INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Affiliation Zip: Not reported
Affiliation Phone: (909) 864-5442,

Affiliation Type Desc: Property Owner
Entity Name: SB PETROLEUM, INC
Entity Title: Not reported
Affiliation Address: 27323 5TH STREET
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92346
Affiliation Phone: (909) 809-9658,

Affiliation Type Desc: UST Permit Applicant
Entity Name: FRANCISCO MARROQUIN
Entity Title: Supervisor
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (619) 322-5818,

HWTS:
Name: BP WEST COAST PRODUCTS LLC 5617
Address: 27323 5TH ST
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346
EPA ID: CAR000103671
Inactive Date: 06/30/2007
Create Date: 03/04/2003
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 80249
Mailing Address 2: Not reported
Mailing City,State,Zip: RCHO STA MARG, CA 926880000
Owner Name: B P WEST COAST PRODUCTS LLC
Owner Address: PO BOX 6038
Owner Address 2: Not reported
Owner City,State,Zip: ARTESIA, CA 907026038
Contact Name: JACK OMAN WASTE SPECIALIST
Contact Address: PO BOX 6038
Contact Address 2: Not reported
City,State,Zip: ARTESIA, CA 907020000
Facility Status: Inactive
Facility Type: PERMANENT
Category: FEDERAL
Latitude: 34.107831
Longitude: -117.208317

NAICS:
EPA ID: CAR000103671
Create Date: 2006-11-27 18:30:15.000
NAICS Code: 44711
NAICS Description: Gasoline Stations with Convenience Stores
Issued EPA ID Date: 2003-03-04 14:25:35.18700

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SB PETROLEUM, INC #82637 (Continued) **S113176137**

Inactive Date:	2007-06-30 00:00:00
Facility Name:	BP WEST COAST PRODUCTS LLC 5617
Facility Address:	27323 5th St
Facility Address 2:	Not reported
Facility City:	Highland
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92346

I40 **SB PETROLEUM, INC #82637** **CA UST** **U004351815**
SSE **27323 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.099 mi.
522 ft. **Site 5 of 14 in cluster I**

Relative: **Higher**
Actual: **1198 ft.**

UST:

Name:	SB PETROLEUM, INC #82637
Address:	27323 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Facility ID:	FA0000883
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10035220
Latitude:	34.107704
Longitude:	-117.208175

I41 **ARCO FACILITY NO 05617** **RCRA-SQG** **1004677984**
SSE **27323 5TH ST** **FINDS** **CAR000103671**
< 1/8 **HIGHLAND, CA 92346** **ECHO**
0.099 mi.
522 ft. **Site 6 of 14 in cluster I**

Relative: **Higher**
Actual: **1198 ft.**

RCRA-SQG:

Date Form Received by Agency:		20020603
Handler Name:	ARCO FACILITY NO 05617	
Handler Address:		27323 5TH ST
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAR000103671
Contact Name:		JACK OMAN
Contact Address:		P O BOX 6038
Contact City,State,Zip:		ARTESIA, CA 90702-6038
Contact Telephone:		714-690-2425
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		P O BOX 6038
Mailing City,State,Zip:		ARTESIA, CA 90702-6038

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ARCO FACILITY NO 05617 (Continued) **1004677984**

Owner Name:	B P WEST COAST PRODUCTS LLC
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20021007
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported

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ARCO FACILITY NO 05617 (Continued) **1004677984**

Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D018
Waste Description: BENZENE

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: B P WEST COAST PRODUCTS LLC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: P O BOX 6038
Owner/Operator City,State,Zip: ARTESIA, CA 90702-6038
Owner/Operator Telephone: 714-690-2425
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20020603
Handler Name: ARCO FACILITY NO 05617
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110012240404

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ARCO FACILITY NO 05617 (Continued) **1004677984**

Click Here:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004677984
Registry ID:	110012240404
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012240404
Name:	ARCO FACILITY NO 05617
Address:	27323 5TH ST
City,State,Zip:	HIGHLAND, CA 92346

I42 **AM PM MINI MARKET #5617** **CA UST** **U004350566**
SSE **27323 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.099 mi.
522 ft. **Site 7 of 14 in cluster I**

Relative: **Higher**
Actual: **1198 ft.**

UST:

Name:	AM PM MINI MARKET #5617
Address:	27323 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Facility ID:	90020354
Permitting Agency:	SAN BERNARDINO COUNTY
CERSID:	Not reported
Latitude:	34.10878
Longitude:	-117.206723

---

43 **MARY OEHLING** **RCRA NonGen / NLR** **1026042074**
NW **7774 DRUMMOND AVE** **CAC003048261**
< 1/8 **HIGHLAND, CA 92346**
0.104 mi.
547 ft.

Relative: **Lower**
Actual: **1188 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20191223
Handler Name:	MARY OEHLING	
Handler Address:		7774 DRUMMOND AVE
Handler City,State,Zip:		HIGHLAND, CA 92346-4233
EPA ID:		CAC003048261
Contact Name:		MARY OEHLING
Contact Address:		7774 DRUMMOND AVE
Contact City,State,Zip:		HIGHLAND, CA 92346-4233

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MARY OEHLING (Continued) **1026042074**

Contact Telephone:	760-617-5210
Contact Fax:	Not reported
Contact Email:	TAMMYHURLEY@ALLIANCE-ENVIRO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	7774 DRUMMOND AVE
Mailing City,State,Zip:	HIGHLAND, CA 92346-4233
Owner Name:	MARY OEHLING
Owner Type:	Other
Operator Name:	MARY OEHLING
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

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MARY OEHLING (Continued) **1026042074**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200210
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARY OEHLING
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7774 DRUMMOND AVE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4233
Owner/Operator Telephone:	760-617-5210
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MARY OEHLING
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7774 DRUMMOND AVE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4233
Owner/Operator Telephone:	760-617-5210
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20191223
Handler Name: MARY OEHLING	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported

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MARY OEHLING (Continued) **1026042074**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E44 **ROSA MARIAS INC** **RCRA NonGen / NLR** **1026821694**
SSW **27229 5TH HIGHLAND** **CAC003134625**
< 1/8 **HIGHLAND, CA 92346**
0.110 mi.
579 ft. **Site 5 of 5 in cluster E**

Relative: **Lower**
Actual: **1190 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20210816
Handler Name:	ROSA MARIAS INC	
Handler Address:		27229 5TH HIGHLAND
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAC003134625
Contact Name:		RODOLFO ROBLES
Contact Address:		27229 5TH HIGHLAND
Contact City,State,Zip:		HIGHLAND, CA 92346
Contact Telephone:		951-203-9845
Contact Fax:		951-346-3378
Contact Email:		YVETTE@ENVIROPROSCA.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		27229 5TH HIGHLAND
Mailing City,State,Zip:		HIGHLAND, CA 92346
Owner Name:		RODOLFO ROBLES
Owner Type:		Other
Operator Name:		RODOLFO ROBLES
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No

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ROSA MARIAS INC (Continued) **1026821694**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210816
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RODOLFO ROBLES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27229 5TH HIGHLAND
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	951-203-9845

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ROSA MARIAS INC (Continued) **1026821694**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	RODOLFO ROBLES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27229 5TH HIGHLAND
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	951-203-9845
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20210816
Handler Name: ROSA MARIAS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

I45 **WATER TREATMENT PLANT #40** **CA San Bern. Co. Permit** **S106446594**
SE **27367 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.115 mi.
608 ft. **Site 8 of 14 in cluster I**

Relative:
Higher

Actual:
1200 ft.

San Bern. Co. Permit:

Name:	WATER TREATMENT PLANT #40
Address:	27367 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0008101
Owner:	EAST VALLEY WATER DIST
Permit Number:	PT0014770
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL

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WATER TREATMENT PLANT #40 (Continued) **S106446594**

Facility Status: INACTIVE
Expiration Date: 02/28/2020

F46 **CSR AIR CONDITIONING & HEATING, INC.** **RCRA NonGen / NLR** **1024804129**
WSW **27015 E 5TH ST** **CAL000256584**
< 1/8 **HIGHLAND, CA 92346**
0.121 mi.
637 ft. **Site 2 of 2 in cluster F**

Relative: **Lower**

Actual: **1175 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20020726
Handler Name:	CSR AIR CONDITIONING & HEATING, INC.
Handler Address:	27015 E 5TH ST
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000256584
Contact Name:	CHRIS LEWIS
Contact Address:	27015 E 5TH ST
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-862-8600
Contact Fax:	909-862-2734
Contact Email:	CSAIRHEATINC@HOTMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 889
Mailing City,State,Zip:	HIGHLAND, CA 92346-0000
Owner Name:	MARK LEWIS
Owner Type:	Other
Operator Name:	CHRIS LEWIS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No

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CSR AIR CONDITIONING & HEATING, INC. (Continued) **1024804129**

Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CHRIS LEWIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27015 E 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8600
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARK LEWIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	35786 PANORAMA DR
Owner/Operator City,State,Zip:	YUCAIPA, CA 92399
Owner/Operator Telephone:	909-208-8008

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CSR AIR CONDITIONING & HEATING, INC. (Continued) **1024804129**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20020726
Handler Name: CSR AIR CONDITIONING & HEATING, INC.
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 23511
NAICS Description: PLUMBING, HEATING, AND AIR-CONDITIONING CONTRACTORS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

J47 **ALAPALM ANIMAL HOSPITAL** **CA HAZNET** **S113663479**
South **8068 PALM AVE** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA HWTS**
0.125 mi.
661 ft. **Site 1 of 9 in cluster J**

Relative: Higher
Actual: 1198 ft.

HAZNET:
Name: WILDS VETERINARY HOSPITAL
Address: 8068 PALM AVE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346
Contact: HEIDI JACKSON
Telephone: 9098625111
Mailing Name: Not reported
Mailing Address: 8068 PALM AVE

Year: 2017
Gepaid: CAL000417007
TSD EPA ID: CAD008364432
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0115

Additional Info:

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ALAPALM ANIMAL HOSPITAL (Continued) **S113663479**

Year:	2017
Gen EPA ID:	CAL000417007
Shipment Date:	20171016
Creation Date:	6/27/2018 18:30:19
Receipt Date:	20171020
Manifest ID:	010798624FLE
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	D024
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0115
Waste Quantity:	23
Quantity Unit:	P
Additional Code 1:	D022
Additional Code 2:	D007
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported

San Bern. Co. Permit:

Name:	ALAPALM ANIMAL HOSPITAL
Address:	8068 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0015012
Owner:	Mefreh Girgis
Permit Number:	PT0026131
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	INACTIVE
Expiration Date:	05/31/2019

Name:	ALAPALM ANIMAL HOSPITAL
Address:	8068 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0015012
Owner:	Mefreh Girgis
Permit Number:	PT0037504
Permit Category:	HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status:	INACTIVE
Expiration Date:	05/31/2018

HWTS:

Name:	WILDS VETERINARY HOSPITAL
Address:	8068 PALM AVE
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346

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ALAPALM ANIMAL HOSPITAL (Continued) **S113663479**

EPA ID:	CAL000417007
Inactive Date:	06/30/2017
Create Date:	05/11/2016
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	8068 PALM AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	REGINALD AND HEIDI JACKSON
Owner Address:	26643 TANAGER CT
Owner Address 2:	Not reported
Owner City,State,Zip:	LOMA LINDA, CA 92354
Contact Name:	HEIDI JACKSON
Contact Address:	8068 PALM AVE
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.106805
Longitude:	-117.2091735

NAICS:

EPA ID:	CAL000417007
Create Date:	2016-05-11 16:12:32.503
NAICS Code:	54194
NAICS Description:	Veterinary Services
Issued EPA ID Date:	2016-05-11 16:12:32.49000
Inactive Date:	2017-06-30 00:00:00
Facility Name:	WILDS VETERINARY HOSPITAL
Facility Address:	8068 PALM AVE
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92346

K48 **ALL VALLEY ENVIRONMENTAL** **RCRA NonGen / NLR** **1024805343**
SE **27381 5TH ST** **CAL000263169**
1/8-1/4 **HIGHLAND, CA 92346**
0.129 mi.
680 ft. **Site 1 of 7 in cluster K**

Relative:
Higher

Actual:
1200 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20021204
Handler Name:	ALL VALLEY ENVIRONMENTAL
Handler Address:	27381 5TH ST
Handler City,State,Zip:	HIGHLAND, CA 92346-0000
EPA ID:	CAL000263169
Contact Name:	JUANITA SCHOW
Contact Address:	PO BOX 7003
Contact City,State,Zip:	BIG BEAR LAKE, CA 92315
Contact Telephone:	909-584-9284
Contact Fax:	000-000-0000
Contact Email:	AVEWASTE@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09

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ALL VALLEY ENVIRONMENTAL (Continued) **1024805343**

Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 7003
Mailing City,State,Zip:	BIG BEAR LAKE, CA 92315-0000
Owner Name:	MARIO FLORES & KENNETH SCHOW
Owner Type:	Other
Operator Name:	JUANITA SCHOW
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No

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ALL VALLEY ENVIRONMENTAL (Continued) **1024805343**

Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JUANITA SCHOW
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 7003
Owner/Operator City,State,Zip:	BIG BEAR LAKE, CA 92315
Owner/Operator Telephone:	909-584-9284
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARIO FLORES & KENNETH SCHOW
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 7003
Owner/Operator City,State,Zip:	BIG BEAR LAKE, CA 92315-7003
Owner/Operator Telephone:	909-584-9284
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20021204
Handler Name:	ALL VALLEY ENVIRONMENTAL
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	562119
NAICS Description:	OTHER WASTE COLLECTION

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ALL VALLEY ENVIRONMENTAL (Continued) **1024805343**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

K49 **BELL GARAGE & TOW SEV INC.** **CA HIST UST** **U001575091**
SE **27381 5TH ST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.129 mi.
680 ft. **Site 2 of 7 in cluster K**

Relative: HIST UST:
Higher
Actual: Name: BELL GARAGE & TOW SEV INC.
1200 ft. Address: 27381 5TH ST
City,State,Zip: HIGHLAND, CA 92346
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000030362
Facility Type: Other
Other Type: SELF SUPPLY
Contact Name: ALFRED D BELL
Telephone: 7148622156
Owner Name: BELLS GARAGE & TOW SERVICE INC
Owner Address: 27381 EAST 5TH ST.
Owner City,St,Zip: HIGHLAND, CA 92346
Total Tanks: 0000

Tank Num: 001
Container Num: 1
Year Installed: 1962
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual, None

K50 **BELL GARAGE AND TOW SEV INC** **CA HIST UST** **S105159302**
SE **27381 EAST 5TH ST** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA HWTS**
0.130 mi.
689 ft. **Site 3 of 7 in cluster K**

Relative: HIST UST:
Higher
Actual: Name: BELL GARAGE AND TOW SEV INC
1201 ft. Address: 27381 EAST 5TH ST
City,State,Zip: HIGHLAND, CA 92346
File Number: 000299F3
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000299F3.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported

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BELL GARAGE AND TOW SEV INC (Continued) **S105159302**

Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

San Bern. Co. Permit:

Name:	ALL VALLEY ENVIRONMENTAL
Address:	27381 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0000841
Owner:	SCHOW, KENNETH /FLORES, MARIO
Permit Number:	PT0009285
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	11/30/2013

Name:	ALL VALLEY ENVIRONMENTAL
Address:	27381 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0000841
Owner:	SCHOW, KENNETH /FLORES, MARIO
Permit Number:	PT0009284
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	11/30/2013

Name:	K & I AUTOMOTIVE
Address:	27381 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0004186
Owner:	KALLHOFF, JOHN A.
Permit Number:	PT0007097
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	05/31/2010

Name:	K & I AUTOMOTIVE
Address:	27381 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0004186

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BELL GARAGE AND TOW SEV INC (Continued) **S105159302**

Owner: KALLHOFF, JOHN A.
Permit Number: PT0007096
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 05/31/2010

HWTS:

Name:	K & I AUTOMOTIVE
Address:	27381 E 5TH ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL912474915
Inactive Date:	06/30/2009
Create Date:	09/04/1991
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	27381 E 5TH ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923460000
Owner Name:	JOHN A KALLHOFF
Owner Address:	27381 E 5TH ST
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 923460000
Contact Name:	JOHN KALLHOFF
Contact Address:	27381 E 5TH ST
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 923460000
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.107743
Longitude:	-117.207078

NAICS:

EPA ID:	CAL912474915
Create Date:	2004-05-18 09:19:45.847
NAICS Code:	54111
NAICS Description:	Offices of Lawyers
Issued EPA ID Date:	1991-09-04 00:00:00
Inactive Date:	2009-06-30 00:00:00
Facility Name:	K & I AUTOMOTIVE
Facility Address:	27381 E 5TH ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923460000

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I51
SSE
1/8-1/4
0.134 mi.
710 ft.

SAFETY-KLEEN CORP
7979 PALM AVE
HIGHLAND, CA 92346

Site 9 of 14 in cluster I

CA UST **U004350436**
N/A

Relative:
Higher

Actual:
1199 ft.

UST:

Name:	SAFETY-KLEEN CORP
Address:	7979 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
Facility ID:	86009594
Permitting Agency:	SAN BERNARDINO COUNTY
CERSID:	Not reported
Latitude:	34.10812
Longitude:	-117.206983

I52
SSE
1/8-1/4
0.134 mi.
710 ft.

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
7979 PALM AVENUE
HIGHLAND, CA 92346

Site 10 of 14 in cluster I

SEMS-ARCHIVE **1015732922**
CORRACTS **CAT000613927**
RCRA-TSDF
RCRA-LQG
US FIN ASSUR
2020 COR ACTION
NJ MANIFEST

Relative:
Higher

Actual:
1199 ft.

SEMS Archive:

Site ID:	0900292
EPA ID:	CAT000613927
Name:	SAFETY- KLEEN CORP 7-172-01
Address:	7979 PALM AVE UNIT E
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
Cong District:	35
FIPS Code:	06071
FF:	N
NPL:	Not on the NPL
Non NPL Status:	Deferred to RCRA (Subtitle C)

SEMS Archive Detail:

Region:	09
Site ID:	0900292
EPA ID:	CAT000613927
Site Name:	SAFETY- KLEEN CORP 7-172-01
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1996-01-23 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0900292
EPA ID:	CAT000613927
Site Name:	SAFETY- KLEEN CORP 7-172-01
NPL:	N
FF:	N
OU:	00

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1991-01-01 05:00:00
Finish Date: 1991-01-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900292
EPA ID: CAT000613927
Site Name: SAFETY- KLEEN CORP 7-172-01
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1991-09-06 04:00:00
Qual: D
Current Action Lead: EPA Perf

CORRACTS:
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: RFA COMPLETED
Actual Date: 19920315
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY
Actual Date: 19920315
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 19960329
Air Release Indicator: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: AREA ENCOMPASSING PREVIOUS U S TS
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 20000912
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION
Actual Date: 19930317
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 19950609
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
Actual Date: 20100609
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 20100609
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 20100609
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

RCRA-LQG:
Date Form Received by Agency: 20200203
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Handler Address: 7979 PALM AVENUE
Handler City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Contact Name: NAHID TOOSSI
Contact Address: SOUTH YALE STREET
Contact City,State,Zip: SANTA ANA, CA 92704
Contact Telephone: 949-981-5099
Contact Fax: Not reported
Contact Email: NAHID.TOOSSI@SAFETY-KLEEN.COM
Contact Title: DIRECTOR COMPLIANCE
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Large Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: 2019
Accessibility: Not reported
Active Site Indicator: Handler Activities, Corrective Action Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: PALM AVENUE
Mailing City,State,Zip: HIGHLAND, CA 92346
Owner Name: SAFETY-KLEEN SYSTEMS INC.
Owner Type: Private
Operator Name: SAFETY-KLEEN SYSTEMS INC.
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: Yes
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	Yes
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Accomplished
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	Yes
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20201014
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Waste Code: D019
Waste Description: CARBON TETRACHLORIDE

Waste Code: D021
Waste Description: CHLOROBENZENE

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D023
Waste Description: O-CRESOL

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: D025
Waste Description: P-CRESOL

Waste Code: D026
Waste Description: CRESOL

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D032
Waste Description: HEXACHLOROBENZENE

Waste Code: D033
Waste Description: HEXACHLOROBUTADIENE

Waste Code: D034
Waste Description: HEXACHLOROETHANE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D036
Waste Description: NITROBENZENE

Waste Code: D037
Waste Description: PENTACHLOROPHENOL

Waste Code: D038
Waste Description: PYRIDINE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: D041
Waste Description: 2,4,5-TRICHLOROPHENOL

Waste Code: D042
Waste Description: 2,4,6-TRICHLOROPHENOL

Waste Code: D043
Waste Description: VINYL CHLORIDE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: SAFETY-KLEEN SYSTEMS INC

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DR
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	42 LONGWATER DRIVE
Owner/Operator City,State,Zip:	NORWELL, MA 02061-9149
Owner/Operator Telephone:	781-792-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVENUE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	714-429-4355
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DR.,CL II, BLDG. 3
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN CORP ELGIN IL
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	777 BIG TIMBER RD
Owner/Operator City,State,Zip:	ELGIN, IL 60123
Owner/Operator Telephone:	708-697-8460
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVENUE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DRIVE
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5360 LEGACY DR
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DRIVE
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	714-429-4355
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY KLEEN SYSTEMS INC
Legal Status:	Private

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1301 GERVAIS ST STE 300
Owner/Operator City,State,Zip:	COLUMBIA, SC 29201
Owner/Operator Telephone:	803-933-4393
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20060227
Handler Name:	SAFETY-KLEEN SYSTEMS, INC.
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20100805
Handler Name:	SAFETY-KLEEN SYSTEMS INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20120821
Handler Name:	SAFETY-KLEEN SYSTEMS, INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20140301
Handler Name:	SAFETY-KLEEN SYSTEMS, INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160226
Handler Name: SAFETY-KLEEN SYSTEMS, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180223
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20200203
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 19980713
Handler Name: SAFETY KLEEN SYSTEMS INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Receive Date: 19900412
Handler Name: SAFETY-KLEEN CORP (7-172-01)
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920331
Handler Name: SAFETY-KLEEN CORP (7-172-01)
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940325
Handler Name: SAFETY-KLEEN CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960329
Handler Name: SAFETY KLEEN CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990304
Handler Name: SAFETY-KLEEN CORP - HIGHLAND, CA
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20001012
Handler Name: SAFETY-KLEEN SYSTEMS, INC. SAN BERNARDIN
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020327
Handler Name: SAFETY-KLEEN SYSTEMS, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040329
Handler Name: SAFETY-KLEEN SYSTEMS INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20080313
Handler Name: SAFETY-KLEEN SYSTEMS INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 42183
NAICS Description: INDUSTRIAL MACHINERY AND EQUIPMENT WHOLESALERS

NAICS Code: 42269
NAICS Description: OTHER CHEMICAL AND ALLIED PRODUCTS WHOLESALERS

NAICS Code: 42272
NAICS Description: PETROLEUM AND PETROLEUM PRODUCTS WHOLESALERS (EXCEPT BULK STATIONS AND TERMINALS)

NAICS Code: 44131
NAICS Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

NAICS Code: 53231
NAICS Description: GENERAL RENTAL CENTERS

NAICS Code: 561499
NAICS Description: ALL OTHER BUSINESS SUPPORT SERVICES

NAICS Code: 56199
NAICS Description: ALL OTHER SUPPORT SERVICES

NAICS Code: 562112
NAICS Description: HAZARDOUS WASTE COLLECTION

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19900326
Actual Return to Compliance Date: 19911121
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19900808
Enforcement Identifier: 003
Date of Enforcement Action: 19900508
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090113
Actual Return to Compliance Date: 20090218
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20090114
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19900326
Actual Return to Compliance Date:	19911121
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: 19900808
Enforcement Identifier: 003
Date of Enforcement Action: 19900508
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20071022
Actual Return to Compliance Date:	20071023
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 511
Date of Enforcement Action: 20071207
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20071022
Actual Return to Compliance Date:	20071023
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20071023
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 20060926
Actual Return to Compliance Date: 20060926
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 510
Date of Enforcement Action: 20061006
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19900326
Actual Return to Compliance Date: 19911121
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: 19900808
Enforcement Identifier: 003
Date of Enforcement Action: 19900508
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20051025
Actual Return to Compliance Date: 20060316
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 507
Date of Enforcement Action: 20051122
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 215
Date of Enforcement Action: 20010827
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 17000
Paid Amount: Not reported
Final Count: 1
Final Amount: 17000

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20000828
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20000828
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20071022
Actual Return to Compliance Date:	20071023
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20071023
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19960415
Actual Return to Compliance Date: 19960415
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19960415
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19880803
Actual Return to Compliance Date: 19890221
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19880626
Enforcement Identifier: 001
Date of Enforcement Action: 19880526
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20000828
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19900326
Actual Return to Compliance Date: 19911121
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19900808
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19910319
Actual Return to Compliance Date: 19911122
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19910801
Enforcement Identifier: 005
Date of Enforcement Action: 19910403
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090113
Actual Return to Compliance Date: 20090218
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 514
Date of Enforcement Action: 20090114
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 20161130
Actual Return to Compliance Date: 20161130
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20161130
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20120927
Actual Return to Compliance Date: 20120927
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 302
Date of Enforcement Action: 20120927
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 20000918
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19910926
Actual Return to Compliance Date:	19930723
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20120927
Actual Return to Compliance Date: 20120927
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 518
Date of Enforcement Action: 20121120
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20071022
Actual Return to Compliance Date: 20071023
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 511
Date of Enforcement Action: 20071207
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20000825
Actual Return to Compliance Date:	20001005
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	501
Date of Enforcement Action:	20000918
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Preparedness and Prevention
Date Violation was Determined:	20161130
Actual Return to Compliance Date:	20161130
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 522
Date of Enforcement Action: 20170127
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19880809
Actual Return to Compliance Date: 19900514
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19881015
Enforcement Identifier: 002
Date of Enforcement Action: 19880915
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20051025
Actual Return to Compliance Date: 20060316
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20051122
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19900326
Actual Return to Compliance Date: 19911121
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19900808
Enforcement Identifier: 003
Date of Enforcement Action: 19900508
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 20000918
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 20060926
Actual Return to Compliance Date: 20060926
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20061006
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19900326
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19911121
Scheduled Compliance Date: 19900808
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20090113
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20090218
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	20050125
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19900320
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20031126
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19900326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911121
Scheduled Compliance Date:	19900808
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010827
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101208
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20071022
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071023
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20071031
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930623
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20071022
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071023
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930723
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060926
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060926
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911121
Scheduled Compliance Date:	19900808
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980831
Evaluation Responsible Agency:	State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20051025
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060316
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20051104
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20161213
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19970227
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20071022
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071023
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	19960415
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960415
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20081222
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20141110
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19880803
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890221
Scheduled Compliance Date:	19880626
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911121
Scheduled Compliance Date:	19900808
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910319
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911122
Scheduled Compliance Date:	19910801
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090113
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090218
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20161130
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20161130
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20001005
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20120927
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20120927
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20031119
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19990720
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19910926
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930723
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20120927
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20120927
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20071022
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071023

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150102
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050607
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101109
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	20060919
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20161130
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20161130
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19880809
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900514
Scheduled Compliance Date:	19881015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20121207
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20051025
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060316
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911121
Scheduled Compliance Date:	19900808
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060926
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060926
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

RCRA-LQG:

Date Form Received by Agency:	20200203
Handler Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Handler Address:	7979 PALM AVENUE
Handler City,State,Zip:	HIGHLAND, CA 92346-0000
EPA ID:	CAT000613927
Contact Name:	NAHID TOOSSI
Contact Address:	SOUTH YALE STREET
Contact City,State,Zip:	SANTA ANA, CA 92704
Contact Telephone:	949-981-5099
Contact Fax:	Not reported
Contact Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Contact Title:	DIRECTOR COMPLIANCE
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2019
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Corrective Action Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PALM AVENUE
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	SAFETY-KLEEN SYSTEMS INC.
Owner Type:	Private
Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	Yes
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	Yes
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Accomplished
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

202 GPRA Corrective Action Baseline:	Yes
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20201014
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

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Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D019
Waste Description:	CARBON TETRACHLORIDE
Waste Code:	D021
Waste Description:	CHLOROBENZENE
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	D023
Waste Description:	O-CRESOL
Waste Code:	D024
Waste Description:	M-CRESOL
Waste Code:	D025
Waste Description:	P-CRESOL
Waste Code:	D026
Waste Description:	CRESOL

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D032
Waste Description: HEXACHLOROBENZENE

Waste Code: D033
Waste Description: HEXACHLOROBUTADIENE

Waste Code: D034
Waste Description: HEXACHLOROETHANE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D036
Waste Description: NITROBENZENE

Waste Code: D037
Waste Description: PENTACHLOROPHENOL

Waste Code: D038
Waste Description: PYRIDINE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: D041
Waste Description: 2,4,5-TRICHLOROPHENOL

Waste Code: D042
Waste Description: 2,4,6-TRICHLOROPHENOL

Waste Code: D043
Waste Description: VINYL CHLORIDE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DR
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	42 LONGWATER DRIVE
Owner/Operator City,State,Zip:	NORWELL, MA 02061-9149
Owner/Operator Telephone:	781-792-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVENUE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	714-429-4355
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DR.,CL II, BLDG. 3
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN CORP ELGIN IL
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	777 BIG TIMBER RD
Owner/Operator City,State,Zip:	ELGIN, IL 60123
Owner/Operator Telephone:	708-697-8460
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVENUE

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DRIVE
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5360 LEGACY DR
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DRIVE
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	714-429-4355
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	19900625
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1301 GERVAIS ST STE 300
Owner/Operator City,State,Zip:	COLUMBIA, SC 29201
Owner/Operator Telephone:	803-933-4393
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20060227
Handler Name:	SAFETY-KLEEN SYSTEMS, INC.
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Electronic Manifest Broker: Not reported

Receive Date: 20100805
Handler Name: SAFETY-KLEEN SYSTEMS INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20120821
Handler Name: SAFETY-KLEEN SYSTEMS, INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20140301
Handler Name: SAFETY-KLEEN SYSTEMS, INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160226
Handler Name: SAFETY-KLEEN SYSTEMS, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180223
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Federal Waste Generator Description: Large Quantity Generator

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20200203
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 19980713
Handler Name: SAFETY KLEEN SYSTEMS INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900412
Handler Name: SAFETY-KLEEN CORP (7-172-01)
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920331
Handler Name: SAFETY-KLEEN CORP (7-172-01)
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940325
Handler Name: SAFETY-KLEEN CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960329
Handler Name: SAFETY KLEEN CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990304
Handler Name: SAFETY-KLEEN CORP - HIGHLAND, CA
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20001012
Handler Name: SAFETY-KLEEN SYSTEMS, INC. SAN BERNARDIN
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Receive Date: 20020327
Handler Name: SAFETY-KLEEN SYSTEMS, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040329
Handler Name: SAFETY-KLEEN SYSTEMS INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20080313
Handler Name: SAFETY-KLEEN SYSTEMS INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 42183
NAICS Description: INDUSTRIAL MACHINERY AND EQUIPMENT WHOLESALERS

NAICS Code: 42269
NAICS Description: OTHER CHEMICAL AND ALLIED PRODUCTS WHOLESALERS

NAICS Code: 42272
NAICS Description: PETROLEUM AND PETROLEUM PRODUCTS WHOLESALERS (EXCEPT BULK STATIONS AND TERMINALS)

NAICS Code: 44131
NAICS Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

NAICS Code: 53231
NAICS Description: GENERAL RENTAL CENTERS

NAICS Code: 561499

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

NAICS Description: ALL OTHER BUSINESS SUPPORT SERVICES

NAICS Code: 56199
NAICS Description: ALL OTHER SUPPORT SERVICES

NAICS Code: 562112
NAICS Description: HAZARDOUS WASTE COLLECTION

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19900326
Actual Return to Compliance Date: 19911121
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19900808
Enforcement Identifier: 003
Date of Enforcement Action: 19900508
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090113
Actual Return to Compliance Date: 20090218
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20090114

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19900326
Actual Return to Compliance Date:	19911121
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19900808
Enforcement Identifier:	003
Date of Enforcement Action:	19900508
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20071022
Actual Return to Compliance Date:	20071023
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	511
Date of Enforcement Action:	20071207
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20071022
Actual Return to Compliance Date:	20071023
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20071023
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 20060926
Actual Return to Compliance Date: 20060926
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 510
Date of Enforcement Action: 20061006

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19900326
Actual Return to Compliance Date:	19911121
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19900808
Enforcement Identifier:	003
Date of Enforcement Action:	19900508
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20051025
Actual Return to Compliance Date:	20060316
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	507
Date of Enforcement Action:	20051122

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 215
Date of Enforcement Action: 20010827
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 17000
Paid Amount: Not reported
Final Count: 1
Final Amount: 17000

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20000828

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20000825
Actual Return to Compliance Date:	20001005
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20000828
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20071022
Actual Return to Compliance Date:	20071023
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20071023
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19960415
Actual Return to Compliance Date:	19960415
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19960415
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19880803
Actual Return to Compliance Date:	19890221
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19880626
Enforcement Identifier:	001
Date of Enforcement Action:	19880526

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20000828
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19900326
Actual Return to Compliance Date:	19911121
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19900808
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19910319
Actual Return to Compliance Date:	19911122
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19910801
Enforcement Identifier:	005
Date of Enforcement Action:	19910403

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090113
Actual Return to Compliance Date: 20090218
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 514
Date of Enforcement Action: 20090114
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 20161130
Actual Return to Compliance Date: 20161130
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20161130
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20120927
Actual Return to Compliance Date:	20120927
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	302
Date of Enforcement Action:	20120927
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 20000918

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19910926
Actual Return to Compliance Date:	19930723
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20120927
Actual Return to Compliance Date:	20120927
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	518
Date of Enforcement Action:	20121120

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20071022
Actual Return to Compliance Date:	20071023
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	511
Date of Enforcement Action:	20071207
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20000825
Actual Return to Compliance Date:	20001005
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	501
Date of Enforcement Action:	20000918
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Preparedness and Prevention
Date Violation was Determined:	20161130
Actual Return to Compliance Date:	20161130
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	522
Date of Enforcement Action:	20170127
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19880809
Actual Return to Compliance Date:	19900514
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19881015
Enforcement Identifier:	002
Date of Enforcement Action:	19880915
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20051025
Actual Return to Compliance Date:	20060316
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20051122
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19900326
Actual Return to Compliance Date: 19911121
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19900808
Enforcement Identifier: 003
Date of Enforcement Action: 19900508
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20000825
Actual Return to Compliance Date: 20001005
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 20000918

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 20060926
Actual Return to Compliance Date: 20060926
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20061006
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19900326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911121
Scheduled Compliance Date:	19900808
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090113
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090218
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050125
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19900320
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20031126
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911121
Scheduled Compliance Date:	19900808
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010827
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101208
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	20071022
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071023
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20071031
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930623
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20071022
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071023
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930723
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060926
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060926
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911121
Scheduled Compliance Date:	19900808
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980831
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20051025
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060316
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20051104
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20161213
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19970227
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20071022
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071023
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19960415
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960415
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20081222
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20141110
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880803
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890221
Scheduled Compliance Date:	19880626
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	19900326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911121
Scheduled Compliance Date:	19900808
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19910319
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911122
Scheduled Compliance Date:	19910801
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090113
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090218
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20161130
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20161130
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20001005
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20120927
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20120927
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20031119
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19990720
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910926
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930723
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20120927
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20120927
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20071022
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071023
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150102
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050607
Evaluation Responsible Agency:	State

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20101109
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060919
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20161130
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20161130

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19880809
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900514
Scheduled Compliance Date:	19881015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20121207
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20051025
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060316
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19900326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911121
Scheduled Compliance Date:	19900808
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	20000825
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001005
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060926
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060926
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

US FIN ASSUR:

Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVENUE
City,State,Zip:	HIGHLAND, CA
EPA ID:	CAT000613927
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	2000000
Face value:	2000000
Effective date:	2015-11-01 00:00:00
Provider:	INDIAN HARBOR INS. CO.
EPA region:	9

Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVENUE
City,State,Zip:	HIGHLAND, CA
EPA ID:	CAT000613927
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	2000000
Face value:	2000000
Effective date:	2011-09-01 00:00:00
Provider:	GREENWICH INSURANCE CO.
EPA region:	9

Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVENUE
City,State,Zip:	HIGHLAND, CA
EPA ID:	CAT000613927
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	149250
Face value:	186909
Effective date:	2015-11-17 00:00:00
Provider:	INDIAN HARBOR INS. CO.
EPA region:	9

Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVENUE
City,State,Zip:	HIGHLAND, CA
EPA ID:	CAT000613927
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	149250
Face value:	172994
Effective date:	2010-11-17 00:00:00
Provider:	INDIAN HARBOR INSURANCE
EPA region:	9

2020 COR ACTION:

EPA ID:	CAT000613927
Region:	9

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Action: Remedy Construction

NJ MANIFEST:

EPA Id:	CAT000613927
Mail Address:	777 BIG TIMBER ROAD
Mail City/State/Zip:	ELGIN, IL 60123-0000
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	BOB WACHSMUTH
Comments:	Not reported
SIC Code:	Not reported
County:	CA071
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002667579SKS
EPA ID:	CAT000613927
Date Shipped:	2/17/2011
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	ORQ000006601
Transporter 3 EPA ID:	MND048341788
Transporter 4 EPA ID:	FLD006921340
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Manifest Discrepancy Type: Not reported
Data Entry Number: Not reported
Was Load Rejected: ELGIN, IL 60123-0000
Reason Load Was Rejected: Not reported

Waste:
Manifest Year: Not reported
Waste Code: D001
Hand Code: H020
Quantity: 1,796.00 gallons

I53 **SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER** **CA ENVIROSTOR** **S103672465**
SSE **7979 PALM AVE #E** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.134 mi.
710 ft. **Site 11 of 14 in cluster I**

Relative:
Higher

Actual:
1199 ft.

ENVIROSTOR:
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVE #E
City,State,Zip: HIGHLAND, CA 923460000
Facility ID: 80001784
Status: No Further Action
Status Date: 09/09/2010
Site Code: 400247
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 1.8
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Not reported
Supervisor: * John Geroch
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.10682
Longitude: -117.2082
APN: NONE SPECIFIED
Past Use: DISTRIBUTOR - CHEMICAL
Potential COC: TPH-Stoddard Solvent
Confirmed COC: TPH-Stoddard Solvent
Potential Description: SOIL
Alias Name: CAT000613927
Alias Type: EPA Identification Number
Alias Name: 110000786007
Alias Type: EPA (FRS #)
Alias Name: 400247
Alias Type: Project Code (Site Code)
Alias Name: 80001784
Alias Type: Envirostor ID Number

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **S103672465**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RCRA Facility Assessment Report
Completed Date:	10/24/1996
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Interim Measures Questionnaire
Completed Date:	03/17/1993
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RCRA Facility Assessment Report
Completed Date:	03/15/1992
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RFI Report
Completed Date:	06/09/1995
Comments:	Not reported
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	AREA ENCOMPASSING PREVIOUS U S TS
Completed Document Type:	RFI Report
Completed Date:	09/12/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RFI Workplan
Completed Date:	03/29/1996
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	02/09/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RCRA Facility Assessment Report
Completed Date:	07/25/1991
Comments:	Not reported
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	AREA ENCOMPASSING PREVIOUS U S TS
Completed Document Type:	* Historical Operating Permit Authority
Completed Date:	07/29/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

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SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **S103672465**

Completed Document Type:	* Historical Operating Permit Authority
Completed Date:	02/16/1993
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Historical Operating Permit Authority
Completed Date:	06/30/1992
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedy Construction Complete
Completed Date:	06/09/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Groundwater Migration Controlled
Completed Date:	06/09/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Human Exposure Controlled
Completed Date:	06/09/2010
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

I54 **SAFETY-KLEEN CORPORATION** **CA LUST** **S105024083**
SSE **7979 PALM AVE** **CA Cortese** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA HIST CORTESE**
0.134 mi. **CA San Bern. Co. Permit**
710 ft. **Site 12 of 14 in cluster I** **CA CERS**

Relative: **Higher**
Actual: **1199 ft.**

LUST REG 8:

Name:	SAFETY-KLEEN CORPORATION
Address:	7979 PALM AVE
City:	HIGHLAND
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Pollution Characterization
Case Number:	083602626T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Mineral Spirits
Qty Leaked:	Not reported
Abate Method:	Not reported

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SAFETY-KLEEN CORPORATION (Continued) **S105024083**

Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0607100369
How Stopped Date:	Not reported
Enter Date:	3/23/1995
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	Not reported
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	1/10/1994
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/23/1995
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.1083737
Longitude:	-117.2084252
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	TME
Staff Initials:	CR2
Lead Agency:	Regional Board
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: DTSC LEAD. CHEMICALS -- SPENT MINERAL SPIRITS, IMMERSION CLEANERS, DRY CLEANING WASTES, PAINT WASTER, SPENT ANTIFREEZE. (CHLORINATED SOLVENTS). SAFETY KLEEN HAS FILED BANKRUPTCY. DTSC TO FILE CLAIM ON BEHALF OF THE STATE. 10/18/2000.

CORTESE:

Name:	SAFETY-KLEEN CORPORATION
Address:	7979 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100369

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SAFETY-KLEEN CORPORATION (Continued) **S105024083**

Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	SAFETY-KLEEN CORPORATION
edr_fadd1:	7979 HIGHLAND
City,State,Zip:	HIGHLAND, CA 92346
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602626T

San Bern. Co. Permit:

Name:	SAFETY-KLEEN SYSTEMS, INC
Address:	7979 PALM AVE E
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0005864
Owner:	Safety-Kleen Systems, Inc.
Permit Number:	PT0002613
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	10/31/2022

Name:	SAFETY-KLEEN SYSTEMS, INC
Address:	7979 PALM AVE E
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0005864
Owner:	Safety-Kleen Systems, Inc.
Permit Number:	PT0038696
Permit Category:	APSA 10,001-100,000 GAL FAC CAPACITY
Facility Status:	ACTIVE
Expiration Date:	10/31/2022

Name:	SAFETY-KLEEN SYSTEMS, INC
Address:	7979 PALM AVE E
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0005864

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SAFETY-KLEEN CORPORATION (Continued) **S105024083**

Owner: Safety-Kleen Systems, Inc.
Permit Number: PT0002614
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 10/31/2022

Name: SAFETY-KLEEN SYSTEMS, INC
Address: 7979 PALM AVE E
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0005864
Owner: Safety-Kleen Systems, Inc.
Permit Number: PT0011518
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 10/31/2019

Name: SAFETY-KLEEN SYSTEMS, INC
Address: 7979 PALM AVE E
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0005864
Owner: Safety-Kleen Systems, Inc.
Permit Number: PT0011519
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 10/31/2019

Name: SAFETY-KLEEN SYSTEMS, INC
Address: 7979 PALM AVE E
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0005864
Owner: Safety-Kleen Systems, Inc.
Permit Number: PT0017441
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 10/31/2013

CERS:
Name: SAFETY-KLEEN CORPORATION
Address: 7979 PALM AVE
City,State,Zip: HIGHLAND, CA 92346
Site ID: 255470
CERS ID: T0607100369
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: CATHERINE RICHARDS - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9093868419,

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SAFETY-KLEEN CORPORATION (Continued) **S105024083**

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	MIGUEL OVIEDO - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 Main Street, Suite 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517823238,

I55 **SAFETY-KLEEN SYSTEMS, INC** **CA UST** **U004353004**
SSE **7979 PALM AVE UNIT E** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.134 mi.
710 ft. **Site 13 of 14 in cluster I**

Relative:
Higher

Actual:
1199 ft.

UST:

Name:	SAFETY-KLEEN SYSTEMS, INC
Address:	7979 PALM AVE UNIT E
City,State,Zip:	HIGHLAND, CA 92346
Facility ID:	FA0005864
Permitting Agency:	San Bernardino County Fire Department
CERSID:	10145863
Latitude:	34.10677
Longitude:	-117.20833

I56 **SAFETY-KLEEN CORP** **CA LUST** **1000224427**
SSE **7979 PALM AVE** **CA CERS HAZ WASTE** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA SWEEPS UST**
0.134 mi. **CA HIST UST**
710 ft. **Site 14 of 14 in cluster I** **CA CERS TANKS**
CA CHMIRS

Relative:
Higher

CA HWP
CA NPDES

Actual:
1199 ft.

CA WDS
CA CIWQS
CA CERS

LUST:

Name:	SAFETY-KLEEN CORPORATION
Address:	7979 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100369
Global Id:	T0607100369
Latitude:	34.1083737
Longitude:	-117.2084252
Status:	Completed - Case Closed
Status Date:	12/06/2019
Case Worker:	Not reported
RB Case Number:	083602626T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Not reported
Local Case Number:	CAT000613927

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SAFETY-KLEEN CORP (Continued) **1000224427**

Potential Media Affect: Soil
Potential Contaminants of Concern: Stoddard solvent / Mineral Spriits / Distillates
Site History: DTSC lead agengy for site. Consult DTSC's Envirostor database site site status. UST portion of case was closed by DTSC.

LUST:
Global Id: T0607100369
Contact Type: Local Agency Caseworker
Contact Name: CATHERINE RICHARDS
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: crichards@sbcfire.org
Phone Number: 9093868419

Global Id: T0607100369
Contact Type: Regional Board Caseworker
Contact Name: MIGUEL OVIEDO
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: miguel.oviedo@waterboards.ca.gov
Phone Number: 9517823238

LUST:
Global Id: T0607100369
Action Type: ENFORCEMENT
Date: 07/07/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100369
Action Type: ENFORCEMENT
Date: 10/28/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100369
Action Type: ENFORCEMENT
Date: 02/19/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100369
Action Type: Other
Date: 01/10/1994
Action: Leak Reported

LUST:
Global Id: T0607100369
Status: Open - Case Begin Date
Status Date: 01/10/1994

Global Id: T0607100369
Status: Open - Site Assessment
Status Date: 01/10/1994

Global Id: T0607100369
Status: Completed - Case Closed
Status Date: 12/06/2019

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SAFETY-KLEEN CORP (Continued) **1000224427**

CERS HAZ WASTE:
Name: SAFETY-KLEEN SYSTEMS, INC
Address: 7979 PALM AVE UNIT E
City,State,Zip: HIGHLAND, CA 92346
Site ID: 402305
CERS ID: 10145863
CERS Description: Hazardous Waste Generator

SWEEPS UST:
Name: SAFETY-KLEEN CORP
Address: 7979 PALM AVE
City: HIGHLAND
Status: Not reported
Comp Number: 6282
Number: Not reported
Board Of Equalization: 44-009069
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-006282-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: 3

Name: SAFETY-KLEEN CORP
Address: 7979 PALM AVE
City: HIGHLAND
Status: Not reported
Comp Number: 6282
Number: Not reported
Board Of Equalization: 44-009069
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-006282-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

Name: SAFETY-KLEEN CORP
Address: 7979 PALM AVE
City: HIGHLAND
Status: Not reported
Comp Number: 6282
Number: Not reported
Board Of Equalization: 44-009069

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SAFETY-KLEEN CORP (Continued) **1000224427**

Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-006282-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: NOT STATED
Number Of Tanks: Not reported

Name: SAFETY-KLEEN CORP
Address: 7979 PALM AVE
City: HIGHLAND
Status: Active
Comp Number: 6282
Number: 9
Board Of Equalization: 44-009069
Referral Date: 03-24-92
Action Date: 06-21-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
Name: SAFETY-KLEEN CORP 7-172-01
Address: 7979 PALM AVENUE
City,State,Zip: HIGHLAND, CA 92346
File Number: 0002A584
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A584.pdf
Region: STATE
Facility ID: 00000006282
Facility Type: Other
Other Type: PARTS WASHER SERVICE
Contact Name: BILL SPENCER
Telephone: 3126978460
Owner Name: SAFETY-KLEEN CORP.
Owner Address: 655 BIG TIMBER ROAD
Owner City,St,Zip: ELGIN, IL 60120
Total Tanks: 0003

Tank Num: 001
Container Num: 01
Year Installed: 1977
Tank Capacity: 00010000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: .25

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SAFETY-KLEEN CORP (Continued) **1000224427**

Leak Detection: Visual, Stock Inventor

Tank Num: 002
Container Num: 02
Year Installed: 1977
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: .1875
Leak Detection: Visual, Stock Inventor

Tank Num: 003
Container Num: 03
Year Installed: 1977
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: .25
Leak Detection: Visual, Stock Inventor

Click here for Geo Tracker PDF:

CERS TANKS:
Name: SAFETY-KLEEN SYSTEMS, INC
Address: 7979 PALM AVE UNIT E
City,State,Zip: HIGHLAND, CA 92346
Site ID: 402305
CERS ID: 10145863
CERS Description: Aboveground Petroleum Storage

CHMIRS:
Name: Not reported
Address: 7979 PALM AVE
City,State,Zip: HIGHLAND, CA 92346
OES Incident Number: 8-2790
OES notification: 06/17/1998
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported

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SAFETY-KLEEN CORP (Continued) **1000224427**

Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	Safteyclean Corp
Incident Date:	6/16/199812:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Gasoline-waste
Gallons:	13
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	30-gal drum fell to concrete spilling contents. Cleaned up.

HWP:

EPA ID:	CAT000613927
Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVE #E
Cleanup Status:	CLOSED
Latitude:	34.10682
Longitude:	-117.2082
Facility Type:	Historical - Non-Operating
Facility Size:	Small Storage
Supervisor:	RYAN DOMINGUEZ
Site Code:	400247

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SAFETY-KLEEN CORP (Continued) **1000224427**

Senate District:	23
Assembly District:	40
Public Information Officer:	Not reported
Commercial Offsite Facility Types:	Not reported
Quarterly Update:	QUARTERLY UPDATE Quarterly Update Period: April 2021 to June 2021 The Department of Toxic Substances Control (DTSC) received the Closure Certification Report (Report) on December 6, 2019. The closure activities included the inspection and decontamination of the following: - One 11,000-gallon double walled underground storage tank (UST). - Two drum washer units (155-gallon capacity each) and the return and fill station. - One container storage area with a total waste storage capacity of 4,320 gallons. Based on the review of the Report, DTSC confirms that Safety-Kleen Systems Inc. Highland Service Center (Facility) has completed all the closure activities in accordance with the approved Closure Plan and acknowledges that the Facility is now closed. Permit Activity: The current Permit was issued on 6/23/07 and expired on 6/23/17. This facility has two permitted units. Unit 1: Underground Storage Tank and the Return and Fill Unit Unit 2: Drum/container Storage Area A Call in letter for next permit renewal application was issued on December 2, 2015. Pre-application meeting occurred on June 30, 2016. Currently the Facility is preparing Part A and B in order to submit the Application in Fall 2016. In May 2017, the application was withdrawn and facility initiated closure of the facility. FACILITY DESCRIPTION/ HISTORY The facility is located at 7979 Palm Avenue in Highland, San Bernardino County, California, and is categorized as a small storage facility. Safety-Kleen Systems, Inc. (Safety-Kleen) began operation in 1968 to provide solvent reclamation and supply service for customers primarily engaged in automotive repair, industrial maintenance, and dry cleaning. The facility provides customers with parts cleaner services, which involve small parts degreasing units consisting of a sink affixed to the top of a 16- or 30-gallon drum of cleaner solvent at the customer s location. The facility distributes parts washing cleaners and immersion cleaners (carburetor cleaner) for use in the degreasing units. Safety-Kleen s truck
Project Manager Lead:	PARISA KHOSRAVIANI
Project Manager:	PARISA KHOSRAVIANI
Permit Type:	RCRA
Permit Effective Date:	Not reported
Permit Expiration Date:	Not reported
Calenviroscreen Score:	96-100% (highest scores)
Total Planned Hours:	Not reported
Total Planned Amount:	Not reported
Total Actual Hours:	Not reported

Activities:

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Renewal - No Changes
Final Date:	2017-12-09 00:00:00
Type:	RCRA

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SAFETY-KLEEN CORP (Continued) **1000224427**

Title Description:	RCRA Modification to Closure Plan
Due Date:	Not reported
Comments:	Class 1* Permit MOD public notice to newspaper
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - PUBLIC NOTICE TO NEWSPAPER BY PERMITTEE
Actual Date:	12/09/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00
Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date:	09/17/1994
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PART A & PART B RECEIVED
Actual Date:	06/29/2006
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00

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SAFETY-KLEEN CORP (Continued) **1000224427**

Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date:	06/27/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Renewal - No Changes
Final Date:	2017-12-09 00:00:00
Type:	RCRA
Title Description:	RCRA Modification to Closure Plan
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - ACKNOWLEDGEMENT OF PERMIT MOD LETTER
Actual Date:	09/25/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Renewal - No Changes
Final Date:	2017-12-09 00:00:00
Type:	RCRA
Title Description:	RCRA Modification to Closure Plan
Due Date:	Not reported
Comments:	Class 1* Permit MOD public notice from the facility
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - PUBLIC NOTICE TO MAILING LIST BY PERMITTEE
Actual Date:	11/06/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit

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SAFETY-KLEEN CORP (Continued) **1000224427**

Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1993-01-05 00:00:00
Type: RCRA
Title Description: Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 10/03/1990

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1993-01-05 00:00:00
Type: RCRA
Title Description: Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 04/30/1985

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1993-01-05 00:00:00
Type: RCRA
Title Description: Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 06/11/1991

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Facility Status: CLOSED
Activity Type: Renewal - No Changes

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SAFETY-KLEEN CORP (Continued) **1000224427**

Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL (EFFECTIVE)
Actual Date:	06/23/2007

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	Not reported
Comments:	Preapplication meeting and site visit - By Hiral Doshi and Michael Choe
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - DTSC MEETING WITH APPLICANT
Actual Date:	06/30/2016

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	11/02/2015
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - CALL-IN LETTER ISSUED
Actual Date:	12/02/2015

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED

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SAFETY-KLEEN CORP (Continued) **1000224427**

Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL
Actual Date:	05/23/2007

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date:	01/05/2003

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00
Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - PUBLIC COMMENT (END)
Actual Date:	06/13/1994

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED

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SAFETY-KLEEN CORP (Continued) **1000224427**

Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - CALL-IN LETTER ISSUED
Actual Date:	06/17/2004

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PART A & PART B RECEIVED
Actual Date:	04/01/1992

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Renewal - No Changes
Final Date:	2017-12-09 00:00:00
Type:	RCRA
Title Description:	RCRA Modification to Closure Plan
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date:	12/09/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED

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SAFETY-KLEEN CORP (Continued) **1000224427**

Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - PUBLIC COMMENT (END)
Actual Date:	12/22/2006

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL (EXPIRES)
Actual Date:	06/23/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	12/23/2016
Comments:	Application dated 9/28/2016
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - APPLICATION PART B RECEIVED
Actual Date:	10/05/2016

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED

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SAFETY-KLEEN CORP (Continued) **1000224427**

Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	12/23/2016
Comments:	Application dated 9/28/2016
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - APPLICATION PART A RECEIVED
Actual Date:	10/05/2016

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - PUBLIC COMMENT (BEGIN)
Actual Date:	11/07/2006

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT
Actual Date:	01/05/1993

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED

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SAFETY-KLEEN CORP (Continued) **1000224427**

Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST RECEIVED
Actual Date:	05/23/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00
Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT
Actual Date:	09/17/1994
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	11/04/2016
Comments:	Application was received on October 5, 2016. Administrative Review was completed within 30 days of receipt of Application
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date:	11/02/2016
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI

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SAFETY-KLEEN CORP (Continued) **1000224427**

Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00
Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date:	04/29/1994

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date:	01/05/1993

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART A RECEIVED
Actual Date:	09/07/1990

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI

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SAFETY-KLEEN CORP (Continued) **1000224427**

Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00
Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date:	09/14/2004

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date:	01/10/2006

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Renewal - No Changes
Final Date:	2017-12-09 00:00:00
Type:	RCRA
Title Description:	RCRA Modification to Closure Plan
Due Date:	Not reported
Comments:	Class 1* MOD Notice of Exemption
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - CEQA DETERMINATION
Actual Date:	12/05/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI

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SAFETY-KLEEN CORP (Continued) **1000224427**

Supervisor: RYAN DOMINGUEZ
Facility Status: CLOSED
Activity Type: Renewal - No Changes
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2007-05-23 00:00:00
Type: RCRA
Title Description: Permit Renewal - for Units Contain1, and Tankstr1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - DRAFT PERMIT RENEWAL
Actual Date: 11/07/2006

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1993-01-05 00:00:00
Type: RCRA
Title Description: Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: New Operating Permit - PERMIT APPEALED - FINAL DECISION
Actual Date: 09/17/1994

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Facility Status: CLOSED
Activity Type: Renewal - No Changes
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2007-05-23 00:00:00
Type: RCRA
Title Description: Permit Renewal - for Units Contain1, and Tankstr1
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - RESPONSE TO 2ND NOD RECEIVED
Actual Date: 06/23/2006

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI

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SAFETY-KLEEN CORP (Continued) **1000224427**

Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - PERMIT APPEALED - APPEAL RECEIVED
Actual Date:	04/20/1994

Closure:

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Administrative
Final Date:	Not reported
Type:	RCRA
Title Description:	Treatment Tank -Admin closure
Due Date:	01/20/2016
Comments:	Admin closure
Unit Names:	TANKTRT1 (GPRA Unit)
Event Description:	Closure Administrative - ISSUE CLOSURE VERIFICATION
Actual Date:	01/20/2016

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	Notice of Exemption
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - DRAFT CEQA
Actual Date:	12/05/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ

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SAFETY-KLEEN CORP (Continued) **1000224427**

Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	DTSC letter & GSU memo
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date:	05/07/2018

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	Responded to the closure notification.
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - CLOSURE PLAN REQUESTED
Actual Date:	06/27/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	Closure Plan received via email
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - CLOSURE PLAN RECEIVED
Actual Date:	07/12/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final

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SAFETY-KLEEN CORP (Continued) **1000224427**

Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	DTSC letter regarding review of closure plan
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	12/14/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	SK Response, Closure Plan Addendum
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - RESPONSE TO 2ND NOD RECEIVED
Actual Date:	08/07/2018
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	Received via email
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - CLOSURE NOTICE RECEIVED
Actual Date:	05/23/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE

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SAFETY-KLEEN CORP (Continued) **1000224427**

Due Date: 12/31/2020
Comments: Closure Verification Letter issued
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 01/08/2021

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Facility Size: Small Storage
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported
Type: RCRA
Title Description: CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date: Not reported
Comments: SK Response to DTSC letter
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Closure Final - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 02/28/2018

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Facility Size: Small Storage
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported
Type: RCRA
Title Description: CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date: Not reported
Comments: Received Closure Certification Report
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 12/06/2019

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Facility Size: Small Storage
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported
Type: RCRA
Title Description: CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)

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SAFETY-KLEEN CORP (Continued) **1000224427**

Event Description: Closure Final - PUBLIC COMMENT (END)
Actual Date: 12/12/2017

Alias:
EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Facility Status: CLOSED
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Alias Type: FRS
Alias: 110000786007

EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Facility Status: CLOSED
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Alias Type: Project Code (Site Code)
Alias: 400247

NPDES:
Name: SAFETY KLEEN CORP
Address: 7979 PALM AVE
City,State,Zip: HIGHLAND, CA 92346
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 8 36I002049
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Terminated
Status Date: 11/22/2017
Operator Name: Safety Kleen
Operator Address: 7979 Palm Ave
Operator City: Highland
Operator State: California
Operator Zip: 92346

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SAFETY-KLEEN CORP (Continued) **1000224427**

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213124
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I002049
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/30/1992
Status:	Active
Status Date:	03/30/1992
Place Size:	1.5
Place Size Unit:	Acres
Contact:	Bryan Vaughn
Contact Title:	Branch Manager
Contact Phone:	909-862-8300
Contact Phone Ext:	Not reported
Contact Email:	bryan.vaughn@safety-kleen.com
Operator Name:	Safety Kleen
Operator Address:	7979 Palm Ave
Operator City:	Highland
Operator State:	California
Operator Zip:	92346
Operator Contact:	Bryan Vaughn
Operator Contact Title:	Branch Manager
Operator Contact Phone:	909-862-8300
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bryan.vaughn@safety-kleen.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	951-906-8682
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported

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SAFETY-KLEEN CORP (Continued) **1000224427**

Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	Nahid Toossi
Certifier Title:	EHS Manager
Certification Date:	23-JUN-15
Primary Sic:	4953-Refuse Systems
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	213124
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I002049
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/30/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	10/19/2017
Discharge Name:	Safety Kleen
Discharge Address:	7979 Palm Ave
Discharge City:	Highland
Discharge State:	California
Discharge Zip:	92346
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported

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SAFETY-KLEEN CORP (Continued) **1000224427**

Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	SAFETY-KLLEEN
Address:	7979 PALM AVE.
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36NNA000251
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported

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SAFETY-KLEEN CORP (Continued) **1000224427**

Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	NONA Submitted
Status Date:	11/16/2017
Operator Name:	Safety Kleen
Operator Address:	7979 Palm Ave
Operator City:	Highland
Operator State:	California
Operator Zip:	92346

WDS:

Name:	HIGHLAND FACILITY
Address:	7979 PALM AVE
City:	HIGHLAND
Facility ID:	Santa Ana River 36I002049
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	9098622856
Facility Contact:	KIMBERLY COLBERT
Agency Name:	SAFETYKLEEN CORP
Agency Address:	7979 Palm Ave
Agency City,St,Zip:	Highland 923464204
Agency Contact:	KIMBERLY COLBERT
Agency Telephone:	9098622856
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as

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SAFETY-KLEEN CORP (Continued) **1000224427**

cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	SAFETY KLEEN CORP
Address:	7979 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
Agency:	Safety Kleen
Agency Address:	7979 Palm Ave, Highland, CA 92346
Place/Project Type:	Industrial - Local Trucking Without Storage
SIC/NAICS:	4212
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I002049
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/30/1992
Termination Date:	10/19/2017
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.10861
Longitude:	-117.20878

CERS:

Name:	SAFETY-KLEEN SYSTEMS
Address:	7979 PALM AVE #E
City,State,Zip:	HIGHLAND, CA 923460000
Site ID:	342459
CERS ID:	80001784
CERS Description:	Corrective Action

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	* John Geroch
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Name:	SAFETY-KLEEN SYSTEMS, INC
Address:	7979 PALM AVE UNIT E
City,State,Zip:	HIGHLAND, CA 92346

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SAFETY-KLEEN CORP (Continued) **1000224427**

Site ID: 402305
CERS ID: 10145863
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-12-2018
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 07/14/2018. OBSERVATION: The tank installation dates in CERS are not accurate. CORRECTIVE ACTION: Update tank installation dates to 12/04/1991 in CERS and re-submit UST documents within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: 1. Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or 2. Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes: Returned to compliance on 09/21/2015. THE VISUAL ALARM ON THE EXTERNAL OVERFILL ANNUNCIATOR WAS INOPERABLE DUE TO A BURNT OUT LIGHT BULB. THE LIGHT WAS REPLACED BY THE UST TECHNICIAN AND WITNESSED OPERABLE AT TIME OF INSPECTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 08/20/2015. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) UST DESIGNATED OPERATOR STATEMENT SUBMITTED ON LINE IN CERS WAS INCOMPLETE MISSING SIGNATURE. PER FACILITY REPRESENTATIVE, BRYAN VAUGHN, THERE IS A SIGNED COPY. OBTAIN SIGNED UST DESIGNATED OPERATOR STATEMENT AND SUBMIT ON LINE IN CERS WITHIN 30 DAYS. THIS IS A RECALCITRANT VIOLATION NOTED ON THE PREVIOUS INSPECTION REPORT DATED 7/23/2014.

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SAFETY-KLEEN CORP (Continued) **1000224427**

Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-21-2016
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description:	UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes:	Returned to compliance on 08/10/2016. Failure to have a written monitoring program with monitoring procedures and response plan (CHSC 25286(a)) OBSERVATIONS:(1) THE WASTE SOLVENT UST PIPING SHOWS AS BEING MONITORED BY "205, 208" SENSORS AND HAVING A MECHANICAL LINE LEAK DETECTOR, VMI LD2000. THE WASTE SOLVENT TANK IS NOT MONITORED BY THESE SENSORS ANYMORE AND IT DOES NOT HAVE A LINE LEAK DETECTOR.(2) THE SOLVENT TANK SHOWS AS HAVING A FILL TUBE SHUT-OFF VALVE, WHEN IT DOESN'T; SHOWS PIPING BEING MONITORED BY "205, 208" SENSORS, WHEN IT ISN'T; SHOWS THE LINE LEAK DETECTOR BEING A VMI LD2000, WHEN IT ISN'T. (3) THE UST MONITORING SITE PLAN IS MISSING THE GENERAL PIPING LAYOUT, THE SENSORS LISTED ARE NO LONGER BEING USED AND NEED TO BE UPDATED. COMPLIANCE REQUIREMENT: (1) THE WASTE OIL TANK PIPING SUMPS ARE MONITORED BY VR323 SENSORS AND IT DOES NOT HAVE A LINE LEAK DETECTOR. (2) THE SOLVENT TANK DOES NOT HAVE A FILL-TUBE SHUT-OFF VALVE. MARK "NO" ON THE INFORMATION PAGE; THE SOLVENT TANK SUMPS ARE BY VR323 [Truncated]
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-21-2015
Citation:	HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description:	Failure to comply with one or more of the operating permit conditions.
Violation Notes:	Returned to compliance on 11/06/2015. VR208 SENSOR INSIDE THE CLEAN PRODUCT STP SUMP WAS OBSERVED NOT TO BE PLACED AT THE LOWEST POINT OF THE SUMP. POOLED LIQUIDS WAS OBSERVED INSIDE THE STP SUMP AND WHEN SENSOR WAS PLACED INTO THE POOLED LIQUID, SENSOR FUNCTIONED BY POSITIVE SHUT DOWN WITH AUDIBLE/VISUAL ALARMS. SPOKE WITH EMPLOYEES THAT MAINTAIN THE SUMPS, LOUS CONTRERAS AND FERNANDO PRECIADO, WHO BOTH CONFIRM THAT THEY MAINTAIN THE SUMPS BUT UNAWARE OF THE RAISED SENSOR OBSERVED INSIDE THE STP SUMP MENTIONED ABOVE. INVESTIGATE THE CAUSE OF THE SENSOR BEING RAISED FROM THE LOWEST POINT IN THE SUMP, AND SUBMIT INVESTIGATION REPORT ALONG WITH A WORK PLAN ON HOW FACILITY WILL MAINTAIN ALL SENSORS AT THE LOWEST POINT. SUBMIT INVESTIGATION REPORT AND WORKPLAN TO THIS DEPARTMENT WITHIN 30 DAYS. ---------- ---------- ---------- VR 420 ANNULAR SENSOR FOR THE WASTE DOUBLE WALLED WAS [Truncated]
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

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SAFETY-KLEEN CORP (Continued) **1000224427**

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-21-2015
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes:	Returned to compliance on 08/20/2015. UST MONITORING PLAN SUBMITTED ON LINE IN CERS INCOMPLETE MISSING ALL SENSORS CONNECTED TO THE VEEDER ROOT MONITORING SYSTEM. UPDATE AND COMPLETE UST MONITORING PLAN AND SUBMIT ON LINE IN CERS WITHIN 30 DAYS. THIS WAS NOTED ON THE PREVIOUS INSPECTION REPORT DATED 7/23/2014 AND IS NOW A RECALCITRANT VIOLATION. THIS IS NOW A CLASS 2 VIOLATION.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	09-22-2015
Citation:	HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description:	Failure to comply with one or more of the operating permit conditions.
Violation Notes:	Returned to compliance on 11/06/2015. VR208 SENSOR INSIDE THE CLEAN PRODUCT STP SUMP WAS OBSERVED NOT TO BE PLACED AT THE LOWEST POINT OF THE SUMP DURING THE PREVIOUS INSPECTION COMPLETED ON 7/21/2-015. POOLED LIQUIDS WAS OBSERVED INSIDE THE STP SUMP AND WHEN SENSOR WAS PLACED INTO THE POOLED LIQUID, SENSOR FUNCTIONED BY POSITIVE SHUT DOWN WITH AUDIBLE/VISUAL ALARMS. INVESTIGATE THE CAUSE OF THE SENSOR BEING RAISED FROM THE LOWEST POINT IN THE SUMP, AND SUBMIT INVESTIGATION REPORT ALONG WITH A WORK PLAN ON HOW FACILITY WILL MAINTAIN ALL SENSORS AT THE LOWEST POINT. SUBMIT INVESTIGATION REPORT AND WORKPLAN TO THIS DEPARTMENT WITHIN 30 DAYS. WILL BE ADDRESSED IN AEO PROCESS. 11/6/2015 ASAGUAN
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-23-2014
Citation:	HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description:	Failure to comply with one or more of the operating permit conditions.
Violation Notes:	Returned to compliance on 07/23/2014. VR208 SENSOR INSIDE CLEAN MPC FILL AND STP SUMP SENSORS WHICH INITIALLY FAILED. VR208 SENSOR INSIDE THE CLEAN MPC STP SUMP WAS REPAIRED AND VR208 SENSOR INSIDE CLEAN MPC FILL WAS REPLACED "LIKE FOR LIKE". BOTH SENSORS PASSED WHEN RETESTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-23-2013
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)

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SAFETY-KLEEN CORP (Continued) **1000224427**

Violation Description:	Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes:	Returned to compliance on 07/23/2013. THE EXTERNAL ENUNCIATOR CONNECTED TO THE ATGS DID NOT ALARM OR ENABLE THE FLASHING LIGHT WHEN TESTED. THE SERVICE TECHNICIAN REPLACED A FUSE IN THE VEEDER ROOT MONITOR AND REPLACED THE LIGHT BULB AND FLASHER.IT WAS RETESTED AND ALARM AND FLASHING LIGHT ACTIVATED-VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-21-2016
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 08/09/2016. OBSERVATIONS: THE CERTIFICATE WAS LAST SIGNED ON 11/4/2014. THE COVERAGE PERIOD IS LISTED AS 11/1/2014 TO 11/1/2015. COMPLIANCE REQUIREMENT: UPDATE THE CERTIFICATE AND MAINTAIN IN CERS. COMPLIANCE ACTIVITY -8/12/2016- NAHID TOOSSI SENT NOTIFICATION ON 8/9/2016 THAT THE UPDATES HAD BEEN MADE. CONFIRMED ON CERS. EGRIMES.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	09-22-2015
Citation:	HSC 6.7 25290.1(h), 25290.2(g), 25291(f), 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(h), 25290.2(g), 25291(f), 25292(e)
Violation Description:	Failure to install line leak detector.
Violation Notes:	Returned to compliance on 09/28/2015. MECHANICAL LINE LEAK DETECTOR IN THE CLEAN PRODUCT TANK FAILED WHEN TESTED.IMMEDIATELY REPLACE INOPERABLE LEAK DETECTOR AND SCHEDULE A WITNESSED RETEST WITH THIS DEPARTMENT WITHIN 10 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	08-30-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/19/2018. Observed (12) 55 gallon drums containing oil contaminated solids and oily water. The most recent hazardous materials inventory submitted on 07/14/2018 disclosed (2) 55 gallon drums containing oil contaminated solids, and (2) 55 gallon drums of oily water. Update the quantity of liquid petroleum products stored on site from 9,500 gallons to ~11,000 gallons. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory

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SAFETY-KLEEN CORP (Continued) **1000224427**

into the California Environmental Reporting System (CERS).
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2016
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 08/09/2016. OBSERVATIONS: THE BOE# 4402781, LISTED ON THE PERMIT, WAS NOT VALID WHEN CHECKED. COMPLIANCE REQUIREMENT: ENSURE THE CORRECT NUMBER HAS BEEN ENTERED, THEN CHECK IF IT IS VALID WITH THE BOARD OF EQUALIZATION. COMPLIANCE ACTIVITY -8/12/2016- NOTIFICATION SENT VIA EMAIL, ON 8/9/2016, FROM NAHID TOOSI, STATING THE BOE# CORRECTION. CONFIRMED ON CERS. EGRIMES.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 08/20/2015. Failure to correct past UST violations within 30 days of receiving a UST inspection report (23CCR 2712(f)) VIOLATION #0315 AND #0312 ARE RECALCITRANT VIOLATIONS NOTED ON THE PREVIOUS INSPECTION REPORT DATED 7/23/2014 AND IS NOW A CLASS 2 VIOLATION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2013
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: 1. Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or 2. Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes: Returned to compliance on 07/23/2013. THE EXTERNAL ENUNCIATOR CONNECTED TO THE ATGS DID NOT ALARM OR ENABLE THE FLASHING LIGHT WHEN TESTED. THE SERVICE TECHNICIAN REPLACED A FUSE IN THE VEEDER ROOT

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SAFETY-KLEEN CORP (Continued) **1000224427**

MONITOR AND REPLACED THE LIGHT BULB AND FLASHER. IT WAS RETESTED-ALARM AND FLASHING LIGHT ACTIVATED. VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-12-2018
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 07/14/2018. OBSERVATION: The Certificate of Financial Responsibility (CFR) submitted via CERS is dated 11/30/2016, which is expired. CORRECTIVE ACTION: Submit a new CFR to this agency via CERS within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2013
Citation: 23 CCR 16 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666
Violation Description: Failure of the leak detection equipment to have an audible and visual alarm as required.
Violation Notes: Returned to compliance on 07/23/2013. THE EXTERNAL ENUNCIATOR CONNECTED TO THE ATGS DID NOT ENABLE THE ALARM OR FLASHING LIGHT WHEN TESTED. THE SERVICE TECHNICIAN REPLACED A FUSE IN THE VEEDER ROOT MONITOR AND REPLACED THE LIGHT BULB AND FLASHER.IT WAS RETESTED-ALARM AND FLASHING LIGHT ACTIVATED-VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2014
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 07/23/2014. EVIDENCE OF FINANCIAL RESPONSIBLITY FOR UST SYSTEM UNDER GREENWICH INSURANCE EXPIRED 9/1/13. UPDATE UST EVIDENCE OF FINANCIAL RESPONSIBLITY AND SUBMIT TO THIS DEPARTMENT ON LINE IN CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: HSC 6.7 25290.1(h), 25290.2(g), 25291(f), 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(h), 25290.2(g),

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SAFETY-KLEEN CORP (Continued) **1000224427**

	25291(f), 25292(e)
Violation Description:	Failure to install line leak detector.
Violation Notes:	Returned to compliance on 09/28/2015. MECHANICAL LINE LEAK DETECTOR IN THE CLEAN PRODUCT TANK FAILED WHEN TESTED. IMMEDIATELY REPLACE INOPERABLE LEAK DETECTOR AND SCHEDULE A WITNESSED RETEST WITH THIS DEPARTMENT WITHIN 10 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-23-2014
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes:	Returned to compliance on 07/23/2014. UST MONITORING PLAN SUBMITTED ON LINE IN CERS INCOMPLETE MISSING ALL SENSORS CONNECTED TO THE VEEDER ROOT MONITORING SYSTEM. UPDATE AND COMPLETE UST MONITORING PLAN AND SUBMIT ON LINE IN CERS WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-23-2013
Citation:	23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description:	Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes:	Returned to compliance on 07/23/2013. THE MONITORING CERTIFICATION WAS LAST DONE ON 7/19/12. UST SYSTEMS MUST BE CERTIFIED ANNUALLY.PLEASE PEFORM THE NEXT MONITORING CERTIFICATION WITHIN ONE YEAR.-VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-23-2014
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 07/23/2014. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) UST DESIGNATED OPERATOR STATEMENT SUBMITTED ON LINE IN CERS IS INCOMPLETE MISSING SIGNATURES. UPDATE UST DESIGNATED OPERATOR STATEMENT ADDRESSING THE DEFICIENCY NOTED AND SUBMIT TO THIS DEPARTMENT ON LINE IN CERS WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS,

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SAFETY-KLEEN CORP (Continued) **1000224427**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-19-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	SAFETY KLEEN INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Other/Unknown
Eval Date:	07-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SECONDARY CONTAINMENT TEST FOLLOWING UST MONITORING SYSTEM CERTIFICATION. SEE C16 REPORT FOR NARRATIVE AND REPORT INFORMATION.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICATION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-09-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS,

Eval General Type:	Other/Unknown
Eval Date:	09-22-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RE-INSPECTION TO FOLLOW UP ON COMPLIANCE NOTED ON THE PREVIOUS INSPECTION REPORT DATED 7/21/2015
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,

Eval General Type:	Other/Unknown
Eval Date:	09-28-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	REINSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS,

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SAFETY-KLEEN CORP (Continued) **1000224427**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-12-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-21-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Safety-Kleen Annual UST and Monitoring System Cert
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-23-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: SAFETY KLEEN 7979 PALMS AVE HIGHLAND
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-09-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-19-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: SAFETY KLEEN INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-17-2017
Violations Found: No

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SAFETY-KLEEN CORP (Continued) **1000224427**

Eval Type: Routine done by local agency
Eval Notes: UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICAITON.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ANNUAL INSPECTION WITH UST MONITORING SYSTEM CERTIFICATION FOLLOWING COLD START UNDER PLAN CHECK SR0044224
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-23-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-09-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Site Address: 7979 PALM AVE UNIT E
Site City: HIGHLAND

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SAFETY-KLEEN CORP (Continued) **1000224427**

Site Zip: 92346
Enf Action Date: 07-21-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Site Address: 7979 PALM AVE UNIT E
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-21-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Site Address: 7979 PALM AVE UNIT E
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-23-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Site Address: 7979 PALM AVE UNIT E
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Site Address: 7979 PALM AVE UNIT E
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 08-24-2015
Enf Action Type: AEO - Unified Program
Enf Action Description: Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes: Fines/Penalties Assessed: $15,832.00. SEPs Value: $12,712.00. Failure

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SAFETY-KLEEN CORP (Continued) **1000224427**

to properly monitor the UST Failure to install a line lead detector Tampering with the leak detection system.
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Site Address: 7979 PALM AVE UNIT E
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 09-22-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Sam Barket
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Safety-Kleen Systems, Inc.
Entity Title: Not reported
Affiliation Address: 42 Longwater Drive
Affiliation City: Norwell
Affiliation State: MA
Affiliation Country: United States
Affiliation Zip: 02061
Affiliation Phone: (781) 792-5000,

Affiliation Type Desc: Parent Corporation
Entity Name: Safety-Kleen Systems, Inc
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported

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SAFETY-KLEEN CORP (Continued) **1000224427**

Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	7979 Palm Ave Unit E
Affiliation City:	Highland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Sam Barket
Entity Title:	Sr. Environmental Compliance Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Nahid Toossi
Entity Title:	Not reported
Affiliation Address:	2120 South Yale Street
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92704
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Safety-Kleen Systems, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 742-7423,

L57 **EJ MEYER** **RCRA NonGen / NLR** **1024804545**
WSW **26999 E 5TH STREET** **CAL000258671**
1/8-1/4 **HIGHLAND, CA 92346**
0.137 mi.
724 ft. **Site 1 of 5 in cluster L**

Relative: RCRA NonGen / NLR:
Lower

Date Form Received by Agency:		20020904
Handler Name:	EJ MEYER	
Handler Address:		26999 E 5TH STREET
Handler City,State,Zip:		HIGHLAND, CA 92346-0000
EPA ID:		CAL000258671
Contact Name:		RICHARD HAMMACK
Contact Address:		PO BOX 277

Actual:
1174 ft.

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EJ MEYER (Continued) **1024804545**

Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-425-4025
Contact Fax:	909-425-4020
Contact Email:	SHAMMOND@EJMEYER.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 277
Mailing City,State,Zip:	HIGHLAND, CA 92346-0000
Owner Name:	EJ MEYER CO
Owner Type:	Other
Operator Name:	RICHARD HAMMACK
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No

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EJ MEYER (Continued) **1024804545**

Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EJ MEYER CO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 277
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-0000
Owner/Operator Telephone:	909-425-4025
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RICHARD HAMMACK
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 277
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-425-4025
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20020904
Handler Name: EJ MEYER	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

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EJ MEYER (Continued) **1024804545**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 54133
NAICS Description: ENGINEERING SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

L58 **MAYFLOWER CONTRACT SERVICES** **RCRA-SQG** **1000472844**
WSW **26999 E 5TH STREET** **FINDS** **CAD982433757**
1/8-1/4 **HIGHLAND, CA 92346** **ECHO**
0.137 mi.
724 ft. **Site 2 of 5 in cluster L**

Relative:
Lower

Actual:
1174 ft.

RCRA-SQG:

Date Form Received by Agency:	19960901
Handler Name:	MAYFLOWER CONTRACT SERVICES
Handler Address:	26999 E 5TH STREET
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAD982433757
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	4
Mailing Address:	P O BOX 682
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No

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MAYFLOWER CONTRACT SERVICES (Continued) **1000472844**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999

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MAYFLOWER CONTRACT SERVICES (Continued) **1000472844**

Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	MAYFLOWER CONTRACT SERV
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name:	MAYFLOWER CONTRACT SERVICES
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19901015
Handler Name:	MAYFLOWER CONTRACT SERVICES
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

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MAYFLOWER CONTRACT SERVICES (Continued) **1000472844**

FINDS:
Registry ID: 110002810860

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000472844
Registry ID:	110002810860
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002810860
Name:	MAYFLOWER CONTRACT SERVICES
Address:	26999 E 5TH STREET
City,State,Zip:	HIGHLAND, CA 92346

L59 **E.J. MEYER COMPANY** **CA CERS HAZ WASTE** **S109598572**
WSW **26999 E 5TH ST** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS**
0.137 mi.
724 ft. **Site 3 of 5 in cluster L**

Relative:
Lower

Actual:
1174 ft.

CERS HAZ WASTE:

Name:	E.J. MEYER COMPANY
Address:	26999 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	27025
CERS ID:	10054540
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	E.J. MEYER COMPANY
Address:	26999 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0012324
Owner:	E.J. MEYER COMPANY
Permit Number:	PT0021618
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	05/31/2022

Name:	E.J. MEYER COMPANY
Address:	26999 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0012324
Owner:	E.J. MEYER COMPANY
Permit Number:	PT0021617
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS

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E.J. MEYER COMPANY (Continued) **S109598572**

Facility Status: ACTIVE
Expiration Date: 05/31/2022

CERS:

Name:	E.J. MEYER COMPANY
Address:	26999 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	27025
CERS ID:	10054540
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	27025
Site Name:	E.J. MEYER COMPANY
Violation Date:	01-03-2018
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/03/2018. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Observed (1) 480 gallon aboveground storage tank of used lubricating oil to have incomplete hazardous waste labeling; label was missing facility name, physical address, physical characteristics and hazardous properties and accumulation start date. Violation was corrected on site at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	27025
Site Name:	E.J. MEYER COMPANY
Violation Date:	01-03-2018
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/03/2018. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Observed (1) 55 gallon drum of waste coolant to be missing appropriate hazardous waste labeling. Violation was corrected on site at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	27025
Site Name:	E.J. MEYER COMPANY
Violation Date:	01-03-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 02/05/2018. Observed (2) ~122 cubic foot cylinders of oxygen, and (2) ~100 cubic foot cylinders of acetylene that were not disclosed on the most recent hazardous materials business plan on 02/09/2017.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP

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E.J. MEYER COMPANY (Continued) **S109598572**

Violation Source:	CERS,
Site ID:	27025
Site Name:	E.J. MEYER COMPANY
Violation Date:	01-05-2021
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 01/05/2021. Observed (2) 5 5gallon drums of waste diesel to not have hazardous waste labeling. Violation corrected on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	27025
Site Name:	E.J. MEYER COMPANY
Violation Date:	01-05-2021
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Returned to compliance on 01/12/2021. Last hazardous waste transport occurred on 05/11/2020, which exceeds the accumulation time frame. Corrective Action: Comply by disposing of hazardous waste within the accumulation time limit, by submitting records and the CofC.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	27025
Site Name:	E.J. MEYER COMPANY
Violation Date:	01-03-2018
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 02/05/2018. Observed multiple 5 gallon open containers to contain drained used oil filters. Compliance Requirement: Sign the Certificate of Compliance in attestation that all drained used oil filters stored on site have either been properly disposed of or containerized in a closed rainproof container.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

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E.J. MEYER COMPANY (Continued) **S109598572**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-05-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-05-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-12-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-12-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION. FUELED VEHICLE.
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-03-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-03-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,

Affiliation:

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E.J. MEYER COMPANY (Continued) **S109598572**

Affiliation Type Desc:	Environmental Contact
Entity Name:	SALLY HAMMOND
Entity Title:	Not reported
Affiliation Address:	PO BOX 277
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 277
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	E.J. MEYER COMPANY
Entity Title:	Not reported
Affiliation Address:	PO BOX 277
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 425-4025,
Affiliation Type Desc:	Operator
Entity Name:	E. J. MEYER COMPANY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 425-4025,
Affiliation Type Desc:	Parent Corporation
Entity Name:	E.J. MEYER COMPANY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

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E.J. MEYER COMPANY (Continued) **S109598572**

Affiliation Zip: Not reported
Affiliation Phone: ,

J60 **GMA GENERAL COLLISION** **RCRA NonGen / NLR** **1026055248**
South **27236 3RD ST** **CAL000451428**
1/8-1/4 **HIGHLAND, CA 92346**
0.143 mi.
757 ft. **Site 2 of 9 in cluster J**

Relative: **Higher**

Actual: **1197 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20191218
Handler Name:	GMA GENERAL COLLISION	
Handler Address:		27236 3RD ST
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAL000451428
Contact Name:		DALETH CALLEJAS BONILLA
Contact Address:		1677 PUMALO ST APT 23
Contact City,State,Zip:		SAN BERNADINO, CA 92404
Contact Telephone:		909-665-6914
Contact Fax:		Not reported
Contact Email:		DALETHCALLEJAS95@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		27236 3RD ST
Mailing City,State,Zip:		HIGHLAND, CA 92346
Owner Name:		MIGUEL GALDAMEZ
Owner Type:		Other
Operator Name:		DALETH CALLEJAS BONILLA
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported

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GMA GENERAL COLLISION (Continued) **1026055248**

Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200210
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MIGUEL GALDAMEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1677 PUMALO ST APT 23
Owner/Operator City,State,Zip:	SAN BERNADINO, CA 92404
Owner/Operator Telephone:	760-885-1623
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DALETH CALLEJAS BONILLA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1677 PUMALO ST APT 23
Owner/Operator City,State,Zip:	SAN BERNADINO, CA 92404

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GMA GENERAL COLLISION (Continued) **1026055248**

Owner/Operator Telephone: 909-665-6914
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20191218
Handler Name: GMA GENERAL COLLISION
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

J61 **ALL STAR AUTO CARE SERVICE** **CA CERS HAZ WASTE** **S105048063**
South **27236 3RD ST BLDG C** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS**
0.143 mi. **CA HWTS**
757 ft. **Site 3 of 9 in cluster J**

Relative:
Higher

Actual:
1197 ft.

CERS HAZ WASTE:
Name: ALL STAR AUTO CARE SERVICE
Address: 27236 3RD ST BLDG C
City,State,Zip: HIGHLAND, CA 92346
Site ID: 4353
CERS ID: 10035142
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: ALL STAR AUTO CARE SERVICE
Address: 27236 3RD ST BLDG C
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0000835
Owner: SAYED, ALI M.
Permit Number: PT0001001
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2022

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ALL STAR AUTO CARE SERVICE (Continued) **S105048063**

Name: ALL STAR AUTO CARE SERVICE
Address: 27236 3RD ST BLDG C
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0000835
Owner: SAYED, ALI M.
Permit Number: PT0001002
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2022

CERS:
Name: ALL STAR AUTO CARE SERVICE
Address: 27236 3RD ST BLDG C
City,State,Zip: HIGHLAND, CA 92346
Site ID: 4353
CERS ID: 10035142
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 4353
Site Name: ALL STAR AUTO CARE SERVICE
Violation Date: 06-16-2021
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 06/16/2021. OBSERVATION: At the time of the inspection (1) 55-Gallon drum of used paper oil filters were observed with a missing hazardous waste label. The labeling violation was corrected on site at the time of the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 4353
Site Name: ALL STAR AUTO CARE SERVICE
Violation Date: 06-16-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 06/16/2021. OBSERVATION: At the time of the inspection the site map was observed with missing evacuation staging area, emergency shut offs, and emergency response equipment. The site map violation was corrected on site at the time of the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 4353
Site Name: ALL STAR AUTO CARE SERVICE
Violation Date: 10-08-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter

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ALL STAR AUTO CARE SERVICE (Continued) **S105048063**

	6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 10/22/2015. Failure to establish a Contingency Plan (CCR 66265.51(a)) CONTINGENCY PLAN SUBMITTAL OF 1/28/14 WAS INCOMPLETE.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	4353
Site Name:	ALL STAR AUTO CARE SERVICE
Violation Date:	05-31-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 06/16/2021. Last hazardous materials business plan submitted via CERS occurred on 10/22/2015. CORRECTIVE ACTION: Review and certify the complete business plan annually before March 1st of the calendar year. Note: A complete business plan includes the Facility Information, Hazardous Materials Inventory, And Emergency Response Plan/Training Plan submittal elements.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	4353
Site Name:	ALL STAR AUTO CARE SERVICE
Violation Date:	05-31-2018
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 06/16/2021. Observed (1) 30 gallon drum of waste automotive coolant to have incomplete/illegible hazardous waste labeling. CORRECTIVE ACTION: Sign the Certificate of Compliance in attestation that all containers actively utilized to accumulate hazardous waste are legibly labeled with the following: -"Hazardous Waste" -Name and address of the generator -Physical and chemical characteristics of the Hazardous Waste -Accumulation start date.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	4353
Site Name:	ALL STAR AUTO CARE SERVICE
Violation Date:	06-16-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 06/16/2021. OBSERVATION: At the time of the

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ALL STAR AUTO CARE SERVICE (Continued) **S105048063**

	inspection no emergency response plan had been submitted via CERS. The emergency response plan violation was corrected on site at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	4353
Site Name:	ALL STAR AUTO CARE SERVICE
Violation Date:	06-16-2021
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 06/16/2021. OBSERVATION: At the time of the inspection the business plan was last reviewed and certified via CERS on 6/15/2018. The business plan annual review certification violation was corrected on site at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	4353
Site Name:	ALL STAR AUTO CARE SERVICE
Violation Date:	06-16-2021
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 06/16/2021. OBSERVATION: At the time of the inspection (1) 55-Gallon drum of drained used oil filters was observed with a missing label. The labeling violation was corrected on site at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	4353
Site Name:	ALL STAR AUTO CARE SERVICE
Violation Date:	06-16-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/16/2021. OBSERVATION: At the time of the inspection (2) 55-Gallon drums of antifreeze were observed on site which had been reported in lesser quantities via CERS. In addition, (1) 55-Gallon drum of drained used oil filters and (1) 55-Gallon drum of drained used oil filters were observed on site which had not been reported via CERS. The hazardous materials inventory violation was corrected on site at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

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ALL STAR AUTO CARE SERVICE (Continued) **S105048063**

Site ID: 4353
Site Name: ALL STAR AUTO CARE SERVICE
Violation Date: 08-02-2013
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 10/22/2015.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 4353
Site Name: ALL STAR AUTO CARE SERVICE
Violation Date: 06-16-2021
Citation: Un-Specified
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes: Returned to compliance on 06/16/2021. OBSERVATION: At the time of the inspection (1) 35-Gallon drum of waste antifreeze and (1) 35-Gallon drum of used oil were observed on site which were reported in lesser quantities via CERS. The facility information reporting violation was corrected on site at the time of the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-16-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-02-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ACTIVITY TIME INCLUDES FILE PREP AND POST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

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ALL STAR AUTO CARE SERVICE (Continued) **S105048063**

Eval Date:	05-31-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ACTIVITY TIME INCLUDES FILE PREP AND POST INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-16-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-08-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION - BP
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-08-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION - HW
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,

Enforcement Action:

Site ID:	4353
Site Name:	ALL STAR AUTO CARE SERVICE
Site Address:	27236 3RD ST BLDG C
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	08-02-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS,
Site ID:	4353
Site Name:	ALL STAR AUTO CARE SERVICE
Site Address:	27236 3RD ST BLDG C
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	10-08-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection

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ALL STAR AUTO CARE SERVICE (Continued) **S105048063**

Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS,

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	sayed ali
Entity Title:	Not reported
Affiliation Address:	28145 EUCALYPTUS AVE
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,

Affiliation Type Desc:	Identification Signer
Entity Name:	sayed ali
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	sayed ali
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 862-3957,

Affiliation Type Desc:	Parent Corporation
Entity Name:	ALL STAR AUTO CARE SERVICE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,

Affiliation Type Desc:	Facility Mailing Address

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ALL STAR AUTO CARE SERVICE (Continued) **S105048063**

Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	27236 3RD STREET, BLDG 'C'
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	SAYED, ALI M.
Entity Title:	Not reported
Affiliation Address:	28145 eucalyptus ave
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 864-3776,
Affiliation Type Desc:	Document Preparer
Entity Name:	salman ali
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

HWTS:

Name:	ALL STAR AUTO CARE SERVICE
Address:	27236 3RD ST BLDG C
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000352747
Inactive Date:	Not reported
Create Date:	05/26/2010
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	27236 3RD ST BLDG C
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923460000
Owner Name:	ALI SYED
Owner Address:	27236 3RD ST BLDG C
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 923460000
Contact Name:	SYED ALI
Contact Address:	27236 3RD ST
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.10623
Longitude:	-117.210203

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ALL STAR AUTO CARE SERVICE (Continued) **S105048063**

NAICS:

EPA ID:	CAL000352747
Create Date:	2011-04-05 10:18:11.997
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2010-05-26 14:48:55.31300
Inactive Date:	Not reported
Facility Name:	ALL STAR AUTO CARE SERVICE
Facility Address:	27236 3RD ST BLDG C
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92346

J62 **MATHESON TRUCKING INC** **RCRA NonGen / NLR** **1024825269**
South **27236 3RD ST BLDG B** **CAL000350685**
1/8-1/4 **HIGHLAND, CA 92346**
0.143 mi.
757 ft. **Site 4 of 9 in cluster J**

Relative: **Higher**

Actual: **1197 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20100310
Handler Name:	MATHESON TRUCKING INC	
Handler Address:		27236 3RD ST BLDG B
Handler City,State,Zip:		HIGHLAND, CA 92346-4203
EPA ID:		CAL000350685
Contact Name:		VALERIE TULLOS
Contact Address:		9785 GOETHE RD
Contact City,State,Zip:		SACRAMENTO, CA 95827
Contact Telephone:		916-504-4729
Contact Fax:		916-504-4829
Contact Email:		VTULLOS@MATHESONINC.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		9785 GOETHE RD
Mailing City,State,Zip:		SACRAMENTO, CA 95827-3559
Owner Name:		ROBERT MATHESON
Owner Type:		Other
Operator Name:		VALERIE TULLOS
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No

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MATHESON TRUCKING INC (Continued) **1024825269**

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	VALERIE TULLOS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	9785 GOETHE RD

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MATHESON TRUCKING INC (Continued) **1024825269**

Owner/Operator City,State,Zip:	SACRAMENTO, CA 95827
Owner/Operator Telephone:	916-504-4729
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	ROBERT MATHESON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	9785 GOETHE RD
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95827-3559
Owner/Operator Telephone:	916-504-4729
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20100310
Handler Name:	MATHESON TRUCKING INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

J63 **GMA GENERAL COLLISION** **CA CERS HAZ WASTE** **S124877885**
South **27236 3RD ST** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS**
0.143 mi. **CA HWTS**
757 ft. **Site 5 of 9 in cluster J**

Relative:
Higher

Actual:
1197 ft.

CERS HAZ WASTE:

Name:	GMA GENERAL COLLISION
Address:	27236 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	561929
CERS ID:	10831963
CERS Description:	Hazardous Waste Generator

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GMA GENERAL COLLISION (Continued) **S124877885**

San Bern. Co. Permit:
Name: GMA GENERAL COLLISION
Address: 27236 3RD ST UNIT A
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0015318
Owner: GALDAMEZ, MIGUEL
Permit Number: PT0030531
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 03/31/2022

Name: GMA GENERAL COLLISION
Address: 27236 3RD ST UNIT A
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0015318
Owner: GALDAMEZ, MIGUEL
Permit Number: PT0038313
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: INACTIVE
Expiration Date: 03/31/2017

CERS:
Name: GMA GENERAL COLLISION
Address: 27236 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 561929
CERS ID: 10831963
CERS Description: Chemical Storage Facilities

Coordinates:
Site ID: 561929
Facility Name: GMA GENERAL COLLISION
Env Int Type Code: HMBP
Program ID: 10831963
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 34.106790
Longitude: -117.209870

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Identification Signer
Entity Name: DALETH CALLEJAS BONILLA
Entity Title: PRESIDENT
Affiliation Address: Not reported

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GMA GENERAL COLLISION (Continued) **S124877885**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	GMA GENERAL COLLISION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(760) 885-1623,
Affiliation Type Desc:	Parent Corporation
Entity Name:	GMA GENERAL COLLISION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	DALETH CALLEJAS BONILLA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	MIGUEL GALDAMEZ
Entity Title:	Not reported
Affiliation Address:	1677 PUMALO ST APT 23
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92404
Affiliation Phone:	(760) 885-1623,
Affiliation Type Desc:	Environmental Contact
Entity Name:	DALETH CALLEJAS
Entity Title:	Not reported
Affiliation Address:	27236 3RD ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address

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GMA GENERAL COLLISION (Continued) **S124877885**

Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	27236 3RD ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,

HWTS:

Name:	GMA GENERAL COLLISION
Address:	27236 3RD ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000451428
Inactive Date:	06/30/2020
Create Date:	12/18/2019
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	27236 3RD ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	MIGUEL GALDAMEZ
Owner Address:	1677 PUMALO ST APT 23
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN BERNADINO, CA 92404
Contact Name:	DALETH CALLEJAS BONILLA
Contact Address:	1677 PUMALO ST APT 23
Contact Address 2:	Not reported
City,State,Zip:	SAN BERNADINO, CA 92404
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.106751
Longitude:	-117.2094885

NAICS:

EPA ID:	CAL000451428
Create Date:	2019-12-18 09:12:37.423
NAICS Code:	811121
NAICS Description:	Automotive Body, Paint, and Interior Repair and Maintenance
Issued EPA ID Date:	2019-12-18 09:12:37.41000
Inactive Date:	2020-06-30 00:00:00
Facility Name:	GMA GENERAL COLLISION
Facility Address:	27236 3RD ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92346

Name:	LEWIS AUTO BODY & PAINT
Address:	27236 3RD ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346

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GMA GENERAL COLLISION (Continued) **S124877885**

EPA ID:	CAL000345620
Inactive Date:	06/30/2010
Create Date:	08/11/2009
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	27236 3RD ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923464203
Owner Name:	ZIAD SALEH
Owner Address:	27236 3RD ST
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 923464203
Contact Name:	ZIAD SALEH
Contact Address:	27236 3RD ST
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 923464203
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.10661
Longitude:	-117.20986

NAICS:

EPA ID:	CAL000345620
Create Date:	2009-08-11 08:20:01.670
NAICS Code:	811121
NAICS Description:	Automotive Body, Paint, and Interior Repair and Maintenance
Issued EPA ID Date:	2009-08-11 08:20:01.64000
Inactive Date:	2010-06-30 00:00:00
Facility Name:	LEWIS AUTO BODY & PAINT
Facility Address:	27236 3RD ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923464203

J64 **ALL STAR AUTO CARE SERVICE** **RCRA NonGen / NLR** **1024825939**
South **27236 3RD ST BLDG C** **CAL000352747**
1/8-1/4 **HIGHLAND, CA 92346**
0.143 mi.
757 ft. **Site 6 of 9 in cluster J**

Relative:
Higher

Actual:
1197 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20100526
Handler Name:	ALL STAR AUTO CARE SERVICE
Handler Address:	27236 3RD ST BLDG C
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000352747
Contact Name:	SYED ALI
Contact Address:	27236 3RD ST
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-864-3776
Contact Fax:	Not reported
Contact Email:	ALLSTARSAUTOCARE@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09

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ALL STAR AUTO CARE SERVICE (Continued) **1024825939**

Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27236 3RD ST BLDG C
Mailing City,State,Zip:	HIGHLAND, CA 92346-0000
Owner Name:	ALI SYED
Owner Type:	Other
Operator Name:	SYED ALI
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No

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ALL STAR AUTO CARE SERVICE (Continued) **1024825939**

Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SYED ALI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27236 3RD ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-864-3776
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ALI SYED
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27236 3RD ST BLDG C
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-0000
Owner/Operator Telephone:	909-864-3776
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20100526
Handler Name:	ALL STAR AUTO CARE SERVICE
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

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ALL STAR AUTO CARE SERVICE (Continued) **1024825939**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

J65 **AUTO TECH LEWIS** **CA San Bern. Co. Permit** **S102042954**
South **27236 3RD ST** **CA HWTS** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.143 mi.
757 ft. **Site 7 of 9 in cluster J**

Relative:
Higher

Actual:
1197 ft.

San Bern. Co. Permit:
Name: AUTO TECH LEWIS
Address: 27236 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0004426
Owner: SALEH, JAMAL S.
Permit Number: PT0001282
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2009

Name: AUTO TECH LEWIS
Address: 27236 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0004426
Owner: SALEH, JAMAL S.
Permit Number: PT0001283
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 09/30/2009

HWTS:
Name: ABSOLUTE KUSTOMZ
Address: 27236 3RD ST UNIT A
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346
EPA ID: CAL000394621
Inactive Date: 06/30/2020
Create Date: 03/04/2014
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 27236 3RD ST UNIT A
Mailing Address 2: Not reported
Mailing City,State,Zip: HIGHLAND, CA 923464203
Owner Name: DOLORES HERRERA
Owner Address: 4631 SEPULVEDA AVE
Owner Address 2: Not reported
Owner City,State,Zip: SAN BERNARDINO, CA 92404
Contact Name: DOLORES HERRERA
Contact Address: 1423 OAKHURST DR
Contact Address 2: Not reported

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AUTO TECH LEWIS (Continued) **S102042954**

City,State,Zip: SAN BERNARDINO, CA 92404
Facility Status: Inactive
Facility Type: PERMANENT
Category: STATE
Latitude: 34.106751
Longitude: -117.2094885

NAICS:
EPA ID: CAL000394621
Create Date: 2014-03-04 11:44:41.850
NAICS Code: 811121
NAICS Description: Automotive Body, Paint, and Interior Repair and Maintenance
Issued EPA ID Date: 2014-03-04 11:44:41.84300
Inactive Date: 2020-06-30 00:00:00
Facility Name: ABSOLUTE KUSTOMZ
Facility Address: 27236 3RD ST UNIT A
Facility Address 2: Not reported
Facility City: HIGHLAND
Facility County: Not reported
Facility State: CA
Facility Zip: 923464203

J66 **MATHESON TRUCKING INC** **CA CERS HAZ WASTE** **S110326720**
South **27236 3RD ST BLDG B** **CA HAZNET** **N/A**
1/8-1/4 **HIGHLAND, CA 95827** **CA San Bern. Co. Permit**
0.143 mi. **CA CERS**
757 ft. **Site 8 of 9 in cluster J** **CA HWTS**

Relative: Higher
Actual: 1197 ft.

CERS HAZ WASTE:
Name: MATHESON TRUCKING INC
Address: 27236 3RD ST BLDG B
City,State,Zip: HIGHLAND, CA 92346
Site ID: 47103
CERS ID: 10311271
CERS Description: Hazardous Waste Generator

HAZNET:
Name: MATHESON TRUCKING INC
Address: 27236 3RD ST BLDG B
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 958273559
Contact: VALERIE TULLOS
Telephone: 9165044729
Mailing Name: Not reported
Mailing Address: 9785 GOETHE RD

Year: 2019
Gepaid: CAL000350685
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05500

Year: 2018
Gepaid: CAL000350685
TSD EPA ID: CAD044429835

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MATHESON TRUCKING INC (Continued) **S110326720**

CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.10000

San Bern. Co. Permit:
Name: MATHESON TRUCKING INC
Address: 27236 3RD ST BLDG B
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0013210
Owner: MATHESON TRUCKING INC.
Permit Number: PT0023342
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2022

Name: MATHESON TRUCKING INC
Address: 27236 3RD ST BLDG B
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0013210
Owner: MATHESON TRUCKING INC.
Permit Number: PT0023343
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2022

Name: MATHESON TRUCKING INC
Address: 27236 3RD ST BLDG B
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0013210
Owner: MATHESON TRUCKING INC.
Permit Number: PT0026220
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 05/31/2014

CERS:
Name: MATHESON TRUCKING INC
Address: 27236 3RD ST BLDG B
City,State,Zip: HIGHLAND, CA 92346
Site ID: 47103
CERS ID: 10311271
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 47103
Site Name: MATHESON TRUCKING INC
Violation Date: 04-28-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 04/29/2016.

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MATHESON TRUCKING INC (Continued) **S110326720**

Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	47103
Site Name:	MATHESON TRUCKING INC
Violation Date:	04-28-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 05/23/2016. Failure to inspect Hazardous Waste tank (CCR 66265.195)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	47103
Site Name:	MATHESON TRUCKING INC
Violation Date:	08-30-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/07/2018. Last hazardous materials business plan submittal occurred on 07/27/2017. CORRECTIVE ACTION: Review and certify the business plan annually, on or before March 1st of every calendar year
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	47103
Site Name:	MATHESON TRUCKING INC
Violation Date:	08-30-2018
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 09/07/2018. Observed (1) 275 gallon containers of [Eco DWT Plus 3] lubricating oil that was not disclosed in the most recent hazardous materials inventory submitted via CERS on 07/27/2017. This is a reportable material, and shall be included in the hazardous materials inventory submitted via CERS. The site map submitted via CERS on 07/27/2017 is missing the following mapping elements: -North Orientation -Adjacent Streets Update the site map to include these mapping elelments. The Consolidated Emergency Response/ Contingency Plan submitted via CERS on 07/27/2017 had the incorrect "local CUPA/UPA" phone number. The correct phone number is 909-386-8425. Report the correct phone number on this document. CORRECTIVE ACTION: Submit the updated business plan information into the California Environmental Reporting System (CERS).

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MATHESON TRUCKING INC (Continued) **S110326720**

Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF MATHESON TRUCKING INC. IN HIGHLAND.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-22-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-22-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF MATHESON TRUCKING INC. IN HIGHLAND.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP

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MATHESON TRUCKING INC (Continued) **S110326720**

Eval Source: CERS,

Enforcement Action:
Site ID: 47103
Site Name: MATHESON TRUCKING INC
Site Address: 27236 3RD ST BLDG B
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 04-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 47103
Site Name: MATHESON TRUCKING INC
Site Address: 27236 3RD ST BLDG B
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 04-28-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 9785 GOETHE RD
Affiliation City: SACRAMENTO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95827
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: MATHESON TRUCKING INC.
Entity Title: Not reported
Affiliation Address: 9785 GOETHE RD
Affiliation City: SACRAMENTO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95827
Affiliation Phone: (916) 504-4729,

Affiliation Type Desc: Operator
Entity Name: Matheson Trucking Inc
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported

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MATHESON TRUCKING INC (Continued) **S110326720**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 425-1795,

Affiliation Type Desc: Parent Corporation
Entity Name: Matheson Trucking Inc
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Document Preparer
Entity Name: Valerie Tullos
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Valerie Tullos
Entity Title: Facilities Management
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Valerie Tullos
Entity Title: Not reported
Affiliation Address: 9785 Goethe Rd
Affiliation City: Sacramento
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95827
Affiliation Phone: ,

HWTS:
Name: MATHESON TRUCKING INC

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MATHESON TRUCKING INC (Continued) **S110326720**

Address:	27236 3RD ST BLDG B
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000350685
Inactive Date:	Not reported
Create Date:	03/10/2010
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	9785 GOETHE RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SACRAMENTO, CA 958273559
Owner Name:	ROBERT MATHESON
Owner Address:	9785 GOETHE RD
Owner Address 2:	Not reported
Owner City,State,Zip:	SACRAMENTO, CA 958273559
Contact Name:	VALERIE TULLOS
Contact Address:	9785 GOETHE RD
Contact Address 2:	Not reported
City,State,Zip:	SACRAMENTO, CA 95827
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.10661
Longitude:	-117.20986

NAICS:

EPA ID:	CAL000350685
Create Date:	2010-03-10 08:42:19.277
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2010-03-10 08:42:19.24300
Inactive Date:	Not reported
Facility Name:	MATHESON TRUCKING INC
Facility Address:	27236 3RD ST BLDG B
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923464203

J67 **ABSOLUTE KUSTOMZ** **RCRA NonGen / NLR** **1024843336**
South **27236 3RD ST UNIT A** **CAL000394621**
1/8-1/4 **HIGHLAND, CA 92346**
0.143 mi.
757 ft. **Site 9 of 9 in cluster J**

Relative:
Higher

Actual:
1197 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20140304
Handler Name:	ABSOLUTE KUSTOMZ	
Handler Address:		27236 3RD ST UNIT A
Handler City,State,Zip:		HIGHLAND, CA 92346-4203
EPA ID:		CAL000394621
Contact Name:		DOLORES HERRERA
Contact Address:		1423 OAKHURST DR
Contact City,State,Zip:		SAN BERNARDINO, CA 92404
Contact Telephone:		909-907-5665
Contact Fax:		909-907-5665

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ABSOLUTE KUSTOMZ (Continued) **1024843336**

Contact Email:	ABSOULATEKUSTOMZ@ATT.NET
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27236 3RD ST UNIT A
Mailing City,State,Zip:	HIGHLAND, CA 92346-4203
Owner Name:	DOLORES HERRERA
Owner Type:	Other
Operator Name:	DOLORES HERRERA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A

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ABSOLUTE KUSTOMZ (Continued) **1024843336**

Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DOLORES HERRERA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1423 OAKHURST DR
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92404
Owner/Operator Telephone:	909-907-5665
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DOLORES HERRERA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4631 SEPULVEDA AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92404
Owner/Operator Telephone:	909-907-5665
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20140304
Handler Name: ABSOLUTE KUSTOMZ	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

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ABSOLUTE KUSTOMZ (Continued) **1024843336**

List of NAICS Codes and Descriptions:
NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

68 NE 1/8-1/4 0.145 mi. 766 ft. **DUBOIS BETTY 2006 REVOCABLE TRUST** **RCRA NonGen / NLR** **1026710966**
27350 7TH ST **CAC003099119**
HIGHLAND, CA 92346

Relative: Higher
Actual: 1200 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20211230
Handler Name:	DUBOIS BETTY 2006 REVOCABLE TRUST
Handler Address:	27350 7TH ST
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAC003099119
Contact Name:	BETTY DUBOIS
Contact Address:	27350 7TH ST
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	951-331-1720
Contact Fax:	Not reported
Contact Email:	FAVILA@BURNS-ENVIRO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27350 7TH ST
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	DUBOIS BETTY 2006 REVOCABLE TRUST
Owner Type:	Other
Operator Name:	BETTY DUBOIS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No

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DUBOIS BETTY 2006 REVOCABLE TRUST (Continued) **1026710966**

Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210226
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DUBOIS BETTY 2006 REVOCABLE TRUST
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27350 7TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	951-331-1720
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

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DUBOIS BETTY 2006 REVOCABLE TRUST (Continued) **1026710966**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BETTY DUBOIS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 27350 7TH ST
Owner/Operator City,State,Zip: HIGHLAND, CA 92346
Owner/Operator Telephone: 951-331-1720
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20211230
Handler Name: DUBOIS BETTY 2006 REVOCABLE TRUST
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

69
ENE
1/8-1/4
0.147 mi.
776 ft.

ARMANDO YBARRA **RCRA NonGen / NLR** **1026164898**
27396 6TH ST **CAC003064910**
HIGHLAND, CA 92346

Relative:
Higher

Actual:
1201 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 20200429
Handler Name: ARMANDO YBARRA
Handler Address: 27396 6TH ST
Handler City,State,Zip: HIGHLAND, CA 92346-4302
EPA ID: CAC003064910
Contact Name: ARMANDO YBARRA
Contact Address: 27396 6TH ST
Contact City,State,Zip: HIGHLAND, CA 92346-4302
Contact Telephone: 909-801-9228
Contact Fax: Not reported

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ARMANDO YBARRA (Continued) **1026164898**

Contact Email:	KRISTINE.RAMOS@PEAS1.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27396 6TH ST
Mailing City,State,Zip:	HIGHLAND, CA 92346-4302
Owner Name:	ARMANDO YABARRA
Owner Type:	Other
Operator Name:	ARMANDO YBARRA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A

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ARMANDO YBARRA (Continued) **1026164898**

Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200515
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ARMANDO YABARRA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27396 6TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4302
Owner/Operator Telephone:	909-801-9228
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ARMANDO YBARRA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27396 6TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4302
Owner/Operator Telephone:	909-801-9228
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200429
Handler Name: ARMANDO YBARRA	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

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ARMANDO YBARRA (Continued) **1026164898**

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

L70 **MEYER CONSTRUCTORS** **CA HIST UST** **S117704863**
WSW **26999 5TH STREET** **CA NPDES** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CIWQS**
0.150 mi.
790 ft. **Site 4 of 5 in cluster L**

Relative:
Lower

Actual:
1173 ft.

HIST UST:
Name: MEYER CONSTRUCTORS
Address: 26999 5TH STREET
City,State,Zip: HIGHLAND, CA 92346
File Number: 0002A252
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A252.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

NPDES:
Name: MAYFLOWER CONTRACT SERVICES
Address: 26999 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported

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MEYER CONSTRUCTORS (Continued) **S117704863**

WDID:	8 36I004684
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	04/07/1992
Operator Name:	Mayflower Contract Services
Operator Address:	PO Box 7941
Operator City:	Shawnee Mission
Operator State:	Kansas
Operator Zip:	66207

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	287895
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I004684
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/07/1992
Status:	Terminated
Status Date:	04/07/1992
Place Size:	1
Place Size Unit:	Acres
Contact:	Cheryl Seifert
Contact Title:	Not reported
Contact Phone:	415-864-3337
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Mayflower Contract Services
Operator Address:	PO Box 7941
Operator City:	Shawnee Mission
Operator State:	Kansas
Operator Zip:	66207
Operator Contact:	Not reported
Operator Contact Title:	Not reported

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MEYER CONSTRUCTORS (Continued) **S117704863**

Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	415-495-1800
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Santa Ana River
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	4111-Local and Suburban Transit
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	MAYFLOWER CONTRACT SERVICES
Address:	26999 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Agency:	Mayflower Contract Services
Agency Address:	PO Box 7941, Shawnee Mission, KS 66207
Place/Project Type:	Industrial - Local and Suburban Transit
SIC/NAICS:	4111
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I004684
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/07/1992

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MEYER CONSTRUCTORS (Continued) **S117704863**

Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.10828
Longitude:	-117.21534

L71 **MEYER CONSTRUCTORS** **CA HIST UST** **U001575099**
WSW **26999 5TH ST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.150 mi.
790 ft. **Site 5 of 5 in cluster L**

Relative: **Lower**
Actual: **1173 ft.**

HIST UST:

Name:	MEYER CONSTRUCTORS
Address:	26999 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000059681
Facility Type:	Other
Other Type:	PIPELINE CONTRACTORS
Contact Name:	EDWARD J. MEYER
Telephone:	7148621267
Owner Name:	MEYER CONSTRUCTORS
Owner Address:	26999 5TH STREET
Owner City,St,Zip:	HIGHLAND, CA 92346
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED

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MEYER CONSTRUCTORS (Continued) **U001575099**

Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

K72 **MORRISON KNUDEN CORPORATION** **CA HIST UST** **1005774017**
SE **27400 E 5TH ST** **FINDS** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA EMI**
0.151 mi. **CA San Bern. Co. Permit**
795 ft. **Site 4 of 7 in cluster K** **CA CERS**

Relative:
Higher

Actual:
1202 ft.

HIST UST:
Name: KASLER CORPORATION
Address: 27400 EAST 5TH STREET
City,State,Zip: HIGHLAND, CA 92346
File Number: 0002A0E1
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A0E1.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

FINDS:
Registry ID: 110002414414

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

EMI:

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MORRISON KNUDEN CORPORATION (Continued) **1005774017**

Name:	KASLER CORP
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	65896
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	KASLER CORP
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	1993
County Code:	36
Air Basin:	SC
Facility ID:	65896
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	KASLER CORP
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	1995
County Code:	36
Air Basin:	SC
Facility ID:	65896
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0

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MORRISON KNUDEN CORPORATION (Continued) **1005774017**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	MORRISON KNUDEN CORPORATION
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	1996
County Code:	36
Air Basin:	SC
Facility ID:	65896
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	13
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	MORRISON KNUDEN CORPORATION
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	1997
County Code:	36
Air Basin:	SC
Facility ID:	65896
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	MORRISON KNUDEN CORPORATION
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	1998
County Code:	36
Air Basin:	SC
Facility ID:	65896
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1

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MORRISON KNUDEN CORPORATION (Continued) **1005774017**

Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	MORRISON KNUDEN CORPORATION
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	1999
County Code:	36
Air Basin:	SC
Facility ID:	65896
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	MORRISON KNUDEN CORPORATION
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	2000
County Code:	36
Air Basin:	SC
Facility ID:	65896
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	MORRISON KNUDEN CORPORATION
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	2001
County Code:	36
Air Basin:	SC
Facility ID:	65896
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

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MORRISON KNUDEN CORPORATION (Continued) **1005774017**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	URS ENERGY & CONSTRUCTION, INC
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Year:	2012
County Code:	36
Air Basin:	SC
Facility ID:	167750
Air District Name:	SC
SIC Code:	8741
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.029246292058
Reactive Organic Gases Tons/Yr:	0.0289
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.0002
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.000172

San Bern. Co. Permit:

Name:	URS ENERGY & CONSTRUCTION INC.
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0004858
Owner:	URS CORP
Permit Number:	PT0001902
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	09/30/2015

Name:	URS ENERGY & CONSTRUCTION INC.
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0004858
Owner:	URS CORP
Permit Number:	PT0024244
Permit Category:	APSA 10,001-100,000 GAL FAC CAPACITY
Facility Status:	INACTIVE
Expiration Date:	09/30/2015

Name:	URS ENERGY & CONSTRUCTION INC.
Address:	27400 E 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0004858

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MORRISON KNUDEN CORPORATION (Continued) **1005774017**

Owner: URS CORP
Permit Number: PT0001901
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 09/30/2015

CERS:
Name: MORRISON KNUDEN CORPORATION
Address: 27400 E 5TH ST
City,State,Zip: HIGHLAND, CA 92346-4217
Site ID: 481984
CERS ID: 110002414414
CERS Description: US EPA Air Emission Inventory System (EIS)

K73 **TRANSITION PROPERTIES, LP** **RCRA NonGen / NLR** **1026051849**
SE **27400 5TH ST** **CAC003058739**
1/8-1/4 **HIGHLAND, CA 92346**
0.152 mi.
801 ft. **Site 5 of 7 in cluster K**

Relative: **Higher**
Actual: **1202 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20200304
Handler Name: TRANSITION PROPERTIES, LP
Handler Address: 27400 5TH ST
Handler City,State,Zip: HIGHLAND, CA 92346-4217
EPA ID: CAC003058739
Contact Name: ART DAY
Contact Address: PO 1010
Contact City,State,Zip: BLUE JAY, CA 92317
Contact Telephone: 951-312-5367
Contact Fax: Not reported
Contact Email: AMBERG_ICI@YAHOO.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: PO 1010
Mailing City,State,Zip: BLUE JAY, CA 92317
Owner Name: TRANSITION PROPERTIES, LP
Owner Type: Other
Operator Name: ART DAY
Operator Type: Other
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No

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TRANSITION PROPERTIES, LP (Continued) **1026051849**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200306
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TRANSITION PROPERTIES, LP
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO 1010
Owner/Operator City,State,Zip:	BLUE JAY, CA 92317
Owner/Operator Telephone:	909-418-2010

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TRANSITION PROPERTIES, LP (Continued) **1026051849**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	ART DAY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO 1010
Owner/Operator City,State,Zip:	BLUE JAY, CA 92317
Owner/Operator Telephone:	951-312-5367
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200304
Handler Name:	TRANSITION PROPERTIES, LP
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	238290
NAICS Description:	OTHER BUILDING EQUIPMENT CONTRACTORS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

K74 **KASLER CORPORATION** **CA HIST UST** **U001575097**
SE **27400 5TH ST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.152 mi.
801 ft. **Site 6 of 7 in cluster K**

Relative:
Higher

Actual:
1202 ft.

HIST UST:

Name:	KASLER CORPORATION
Address:	27400 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000019737
Facility Type:	Other

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KASLER CORPORATION (Continued) **U001575097**

Other Type:	CONSTRUCTION YARD
Contact Name:	AUGIE MEDINA
Telephone:	7148844811
Owner Name:	KASLER CORPORATON
Owner Address:	27400 EAST 5TH STREET
Owner City,St,Zip:	HIGHLAND, CA 92346
Total Tanks:	0003
Tank Num:	001
Container Num:	2997-K
Year Installed:	1963
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2996-X
Year Installed:	1963
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	2998-K
Year Installed:	1973
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

K75 **TRANSITION PROPERTIES L.P.** **RCRA NonGen / NLR** **1024752311**
SE **27400 5TH ST** **CAC002972115**
1/8-1/4 **HIGHLAND, CA 92346**
0.152 mi.
801 ft. **Site 7 of 7 in cluster K**

Relative: RCRA NonGen / NLR:
Higher

Actual:	Date Form Received by Agency:	20180723
1202 ft.	Handler Name:	TRANSITION PROPERTIES L.P.
	Handler Address:	27400 5TH ST
	Handler City,State,Zip:	HIGHLAND, CA 92346
	EPA ID:	CAC002972115
	Contact Name:	ART DAY
	Contact Address:	PO BOX 1010
	Contact City,State,Zip:	BLUE JAY, CA 92317
	Contact Telephone:	951-312-5367
	Contact Fax:	Not reported
	Contact Email:	ART.DAY@CBRE.COM
	Contact Title:	Not reported
	EPA Region:	09
	Land Type:	Not reported
	Federal Waste Generator Description:	Not a generator, verified
	Non-Notifier:	Not reported

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TRANSITION PROPERTIES L.P. (Continued) **1024752311**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 1010
Mailing City,State,Zip:	BLUE JAY, CA 92317
Owner Name:	TRANSITION PROPERTIES, L.P.
Owner Type:	Other
Operator Name:	ART DAY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No

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TRANSITION PROPERTIES L.P. (Continued) **1024752311**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180831
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ART DAY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 1010
Owner/Operator City,State,Zip:	BLUE JAY, CA 92317
Owner/Operator Telephone:	951-312-5367
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TRANSITION PROPERTIES, L.P.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 1010
Owner/Operator City,State,Zip:	BLUE JAY, CA 92317
Owner/Operator Telephone:	951-312-5367
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20180723
Handler Name: TRANSITION PROPERTIES L.P.	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

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TRANSITION PROPERTIES L.P. (Continued) **1024752311**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

76
SW
1/8-1/4
0.158 mi.
834 ft.

UNKNOWN PARTY
27114 3RD ST
HIGHLAND, CA 92346

RCRA NonGen / NLR **1026808506**
CAC003120827

Relative:
Lower

Actual:
1182 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20210520
Handler Name:	UNKNOWN PARTY	
Handler Address:		27114 3RD ST
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAC003120827
Contact Name:		WEB UNLIMITED INC DBA E&W TOWING CO
Contact Address:		219 S RIVERSIDE AVE #206
Contact City,State,Zip:		RIALTO, CA 92376
Contact Telephone:		909-446-2778
Contact Fax:		Not reported
Contact Email:		EWTOWINGCOMPANY@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		219 S RIVERSIDE AVE #206
Mailing City,State,Zip:		RIALTO, CA 92376
Owner Name:		UNKNOWN PARTY
Owner Type:		Other
Operator Name:		WEB UNLIMITED INC DBA E&W TOWING CO
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---

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UNKNOWN PARTY (Continued) **1026808506**

Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210521
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNKNOWN PARTY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27114 3RD ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-999-9999
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WEB UNLIMITED INC DBA E&W TOWING CO
Legal Status:	Other
Date Became Current:	Not reported

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UNKNOWN PARTY (Continued) **1026808506**

Date Ended Current:	Not reported
Owner/Operator Address:	219 S RIVERSIDE AVE #206
Owner/Operator City,State,Zip:	RIALTO, CA 92376
Owner/Operator Telephone:	909-446-2778
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20210520
Handler Name: UNKNOWN PARTY	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

M77 **SUN AUTOMOTIVE REPAIR** **CA San Bern. Co. Permit** **U003775828**
SSW **27178 3RD ST UNIT B** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.158 mi.
836 ft. **Site 1 of 4 in cluster M**

Relative:
Lower

Actual:
1187 ft.

San Bern. Co. Permit:

Name:	SUN AUTOMOTIVE REPAIR
Address:	27178 3RD ST UNIT B
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0006507
Owner:	DIB SALEH
Permit Number:	PT0000056
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	11/30/2017

Name:	SUN AUTOMOTIVE REPAIR
Address:	27178 3RD ST UNIT B
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0006507

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SUN AUTOMOTIVE REPAIR (Continued) **U003775828**

Owner: DIB SALEH
Permit Number: PT0000065
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2017

M78 **SUN AUTO REPAIR** **CA UST** **U004049957**
SSW **27178 3RD ST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.158 mi.
836 ft. **Site 2 of 4 in cluster M**

Relative: UST:
Lower
Name: SUN AUTO REPAIR
Actual: Address: 27178 3RD ST
1187 ft. City,State,Zip: HIGHLAND, CA 92346
Facility ID: 48975
Permitting Agency: SAN BERNARDINO COUNTY
CERSID: Not reported
Latitude: 34.1081437
Longitude: -117.2100817

M79 **RIOS BROS AUTOMOTIVE** **CA San Bern. Co. Permit** **S121143964**
SSW **27178 W 3RD ST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.158 mi.
836 ft. **Site 3 of 4 in cluster M**

Relative: San Bern. Co. Permit:
Lower
Name: RIOS BROS AUTOMOTIVE
Actual: Address: 27178 W 3RD ST
1187 ft. City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0017326
Owner: RAUL RIOS
Permit Number: PT0036838
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 03/31/2018

Name: RIOS BROS AUTOMOTIVE
Address: 27178 W 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0017326
Owner: RAUL RIOS
Permit Number: PT0036839
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 03/31/2018

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M80 **A & I AUTOMOTIVE REPAIR** **CA San Bern. Co. Permit** **S105158909**
SSW **27114 E 3RD ST** **CA HWTS** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.166 mi.
879 ft. **Site 4 of 4 in cluster M**

Relative:
Lower

Actual:
1185 ft.

San Bern. Co. Permit:

Name:	A & I AUTOMOTIVE REPAIR
Address:	27114 E 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0000045
Owner:	JEFF DUNFEE
Permit Number:	PT0001010
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	09/30/2007

Name:	A & I AUTOMOTIVE REPAIR
Address:	27114 E 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0000045
Owner:	JEFF DUNFEE
Permit Number:	PT0001012
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	09/30/2007

HWTS:

Name:	A & I AUTOMOTIVE REPAIR
Address:	27114 E 3RD ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000233942
Inactive Date:	06/30/2008
Create Date:	09/04/2001
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	27114 E 3RD ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923460000
Owner Name:	PATRICK DUNFEE
Owner Address:	27114 E 3RD ST
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 923460000
Contact Name:	JEFF DUNFEE
Contact Address:	27114 E 3RD ST
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 923460000
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.106448
Longitude:	-117.212886

NAICS:

EPA ID:	CAL000233942
Create Date:	2002-03-14 16:36:29.000

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A & I AUTOMOTIVE REPAIR (Continued) **S105158909**

NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2001-09-04 00:00:00
Inactive Date:	2008-06-30 00:00:00
Facility Name:	A & I AUTOMOTIVE REPAIR
Facility Address:	27114 E 3RD ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923460000

N81 **ROYAL COACH AUTO BODY** **RCRA NonGen / NLR** **1024864597**
South **27180 E 3RD ST** **CAL000433159**
1/8-1/4 **SAN BERNARDINO, CA 92346**
0.167 mi.
881 ft. **Site 1 of 5 in cluster N**

Relative: **Higher**

Actual: **1192 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20180109
Handler Name:	ROYAL COACH AUTO BODY
Handler Address:	27180 E 3RD ST
Handler City,State,Zip:	SAN BERNARDINO, CA 92346
EPA ID:	CAL000433159
Contact Name:	JUAN D TAPIA
Contact Address:	1439 31ST PL
Contact City,State,Zip:	SAN BERNARDINO, CA 92405
Contact Telephone:	909-693-2933
Contact Fax:	909-889-1411
Contact Email:	ROYALCOACHAUTOBODY52@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27180 E 3RD ST
Mailing City,State,Zip:	SAN BERNARDINO, CA 92346
Owner Name:	JUAN D TAPIA
Owner Type:	Other
Operator Name:	JUAN D TAPIA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes

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ROYAL COACH AUTO BODY (Continued) **1024864597**

Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JUAN D TAPIA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1439 31ST PL
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92405
Owner/Operator Telephone:	909-693-2933
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

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ROYAL COACH AUTO BODY (Continued) **1024864597**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: JUAN D TAPIA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1439 31ST PL
Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92405-1818
Owner/Operator Telephone: 909-693-2933
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20180109
Handler Name: ROYAL COACH AUTO BODY
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

N82 **ROYAL COACH AUTO BODY** **CA San Bern. Co. Permit** **S122218675**
South **27180 E 3RD ST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.167 mi.
881 ft. **Site 2 of 5 in cluster N**

Relative:
Higher

Actual:
1192 ft.

San Bern. Co. Permit:
Name: ROYAL COACH AUTO BODY
Address: 27180 E 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0017725
Owner: TAPIA, JUAN D.
Permit Number: PT0038178
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 01/31/2022

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N83 **WIRZ WHOLESALE SHOOTING SUPPLY LLC** **CA San Bern. Co. Permit** **S110497045**
South **27200 3RD** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.167 mi.
881 ft. **Site 3 of 5 in cluster N**

Relative:
Higher

Actual:
1195 ft.

San Bern. Co. Permit:

Name:	WIRZ WHOLESALE SHOOTING SUPPLY LLC
Address:	27200 3RD
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0013279
Owner:	WIRZ, MICHAEL E
Permit Number:	PT0023430
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	09/30/2013

N84 **JAY'S AUTOBODY & REPAIR** **RCRA NonGen / NLR** **1024871450**
South **27200 3RD ST** **CAL000440094**
1/8-1/4 **HIGHLAND, CA 92346**
0.167 mi.
881 ft. **Site 4 of 5 in cluster N**

Relative:
Higher

Actual:
1195 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20181024
Handler Name:	JAY'S AUTOBODY & REPAIR	
Handler Address:		27200 3RD ST
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAL000440094
Contact Name:		JORDAN DMYTRO
Contact Address:		2507 MT VIEW AVE
Contact City,State,Zip:		SAN BERNARDINO, CA 92405
Contact Telephone:		909-401-3509
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		27200 3RD ST
Mailing City,State,Zip:		HIGHLAND, CA 92346
Owner Name:		JORDAN DMYTRO
Owner Type:		Other
Operator Name:		JORDAN DMYTRO
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No

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JAY'S AUTOBODY & REPAIR (Continued) **1024871450**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181120
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JORDAN DMYTRO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2507 MT VIEW AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92405

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JAY'S AUTOBODY & REPAIR (Continued) **1024871450**

Owner/Operator Telephone:	909-401-3509
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	JORDAN DMYTRO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2507 MT VIEW AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92405
Owner/Operator Telephone:	909-401-3509
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20181024
Handler Name:	JAY'S AUTOBODY & REPAIR
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

N85 **MUTE PERFORMANCE LLC** **RCRA NonGen / NLR** **1027094149**
South **27192 3RD ST** **CAL000467724**
1/8-1/4 **HIGHLAND, CA 92346**
0.167 mi.
881 ft. **Site 5 of 5 in cluster N**

Relative:
Higher

Actual:
1194 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20220105
Handler Name:	MUTE PERFORMANCE LLC
Handler Address:	27192 3RD ST
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000467724
Contact Name:	RANDY PERRY
Contact Address:	27192 3RD ST

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MUTE PERFORMANCE LLC (Continued) **1027094149**

Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-844-4406
Contact Fax:	Not reported
Contact Email:	MUTE.PERFORMANCE1@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	783 N WISTERIA AVE
Mailing City,State,Zip:	RIALTO, CA 92376
Owner Name:	MUTE PERFORMANCE LLC
Owner Type:	Other
Operator Name:	RANDY PERRY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No

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MUTE PERFORMANCE LLC (Continued) **1027094149**

Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220110
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RANDY PERRY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27192 3RD ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-844-4406
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MUTE PERFORMANCE LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27192 3RD ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-844-4406
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20220105
Handler Name: MUTE PERFORMANCE LLC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

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MUTE PERFORMANCE LLC (Continued) **1027094149**

Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

O86 **ORCO BLENDED PRODUCTS** **CA San Bern. Co. Permit** **S111456380**
SSE **27347 E THIRD ST** **CA CERS** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.168 mi.
886 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
1201 ft.

San Bern. Co. Permit:
Name: ORCO BLENDED PRODUCTS
Address: 27347 E THIRD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0014140
Owner: ORCO BLENDED PRODUCTS
Permit Number: PT0025120
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 12/31/2021

CERS:
Name: ORCO BLENDED PRODUCTS
Address: 27347 E THIRD ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 140285
CERS ID: 10312693
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-15-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-19-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department

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ORCO BLENDED PRODUCTS (Continued) **S111456380**

Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: RAY FLORES
Entity Title: Not reported
Affiliation Address: 11100 BEACH BLVD
Affiliation City: STANTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90680
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: LUCIANO LOPEZ
Entity Title: PLANT MANAGER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Legal Owner
Entity Name: ORCO BLENDED PRODUCTS
Entity Title: Not reported
Affiliation Address: 27347 E THIRD ST
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92346
Affiliation Phone: (909) 862-2480,

Affiliation Type Desc: Parent Corporation
Entity Name: ORCO BLENDED PRODUCTS
Entity Title: Not reported
Affiliation Address: Not reported

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ORCO BLENDED PRODUCTS (Continued) **S111456380**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	Robertson's Ready Mix, LTD
Entity Title:	Not reported
Affiliation Address:	200 S. Main Street, Suite 200
Affiliation City:	Coronoa
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92872
Affiliation Phone:	(800) 834-7557,
Affiliation Type Desc:	Document Preparer
Entity Name:	Ray Flores
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	11100 BEACH BLVD
Affiliation City:	STANTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90680
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Luciano Lopez
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 862-2480,

O87 **PRO CAST PRODUCTS INC** **RCRA NonGen / NLR** **1024816476**
SSE **27417 3RD ST** **CAL000317852**
1/8-1/4 **HIGHLAND, CA 92346**
0.178 mi.
938 ft. **Site 2 of 2 in cluster O**

Relative: RCRA NonGen / NLR:
Higher

Date Form Received by Agency:		20070323
Handler Name:	PRO CAST PRODUCTS INC	
Handler Address:		27417 3RD ST
Handler City,State,Zip:		HIGHLAND, CA 92346-4258

Actual:
1201 ft.

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PRO CAST PRODUCTS INC (Continued) **1024816476**

EPA ID:	CAL000317852
Contact Name:	RAY COLON
Contact Address:	27417 E.THIRD STREET
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-793-7602
Contact Fax:	909-793-1283
Contact Email:	PAULD@PROCASTPRODUCTS.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 602
Mailing City,State,Zip:	HIGHLAND, CA 92346-0602
Owner Name:	PRO CAST PRODUCTS INC
Owner Type:	Other
Operator Name:	RAY COLON
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No

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PRO CAST PRODUCTS INC (Continued) **1024816476**

TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RAY COLON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27417 E.THIRD STREET
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-793-7602
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PRO CAST PRODUCTS INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27417 3RD ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4258
Owner/Operator Telephone:	909-793-7602
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20070323
Handler Name: PRO CAST PRODUCTS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

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PRO CAST PRODUCTS INC (Continued) **1024816476**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 327999
NAICS Description: ALL OTHER MISCELLANEOUS NONMETALLIC MINERAL PRODUCT MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

P88 **PRO CAST PRODUCTS INC** **CA AST** **S104769171**
SE **27417 E 3RD ST** **CA CERS HAZ WASTE** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS TANKS**
0.187 mi. **CA San Bern. Co. Permit**
986 ft. **Site 1 of 6 in cluster P** **CA CERS**

Relative:
Higher

Actual:
1204 ft.

AST:
Name: PRO CAST PRODUCTS INC
Address: 27417 E 3RD ST
City/Zip: HIGHLAND,92346
Certified Unified Program Agencies: Not reported
Owner: Warren Taylor
Total Gallons: Not reported
CERSID: 10043293
Facility ID: FA0005433
Business Name: PRO CAST PRODUCTS INC
Phone: (909) 793-7602
Fax: (909) 793-1283
Mailing Address: P.O BOX 602
Mailing Address City: HIGHLAND
Mailing Address State: CA
Mailing Address Zip Code: 92346
Operator Name: Paul Dicecca
Operator Phone: 909-553-0445
Owner Phone: 909 793 7602
Owner Mail Address: P.O BOX 602
Owner State: CA
Owner Zip Code: 92346
Owner Country: United States
Property Owner Name: Robertsons Ready Mix
Property Owner Phone: 1 951 493 6500
Property Owner Mailing Address: 8353 Alabama St
Property Owner City: Redlands
Property Owner Stat : CA
Property Owner Zip Code: 92373
Property Owner Country: United States
EPAID: cal000317852

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PRO CAST PRODUCTS INC (Continued) **S104769171**

CERS HAZ WASTE:
Name: PRO CAST PRODUCTS INC
Address: 27417 E 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 399937
CERS ID: 10043293
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: PRO CAST PRODUCTS INC
Address: 27417 E 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 399937
CERS ID: 10043293
CERS Description: Aboveground Petroleum Storage

San Bern. Co. Permit:
Name: PRO CAST PRODUCTS INC
Address: 27417 E 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0005433
Owner: Warren Taylor
Permit Number: PT0023562
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 04/30/2022

Name: PRO CAST PRODUCTS INC
Address: 27417 E 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0005433
Owner: Warren Taylor
Permit Number: PT0008581
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 04/30/2022

Name: PRO CAST PRODUCTS INC
Address: 27417 E 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0005433
Owner: Warren Taylor
Permit Number: PT0022988
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 04/30/2022

CERS:
Name: PRO CAST PRODUCTS INC
Address: 27417 E 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 399937

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PRO CAST PRODUCTS INC (Continued) **S104769171**

CERS ID: 10043293
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 399937
Site Name: PRO CAST PRODUCTS INC
Violation Date: 04-28-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 04/28/2016. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 399937
Site Name: PRO CAST PRODUCTS INC
Violation Date: 04-28-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan .
Violation Notes: Returned to compliance on 06/07/2016.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 399937
Site Name: PRO CAST PRODUCTS INC
Violation Date: 10-18-2021
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 11/17/2021. OBSERVATION: Failure to annually re-certify a complete business plan in CERS. Last complete submittal dated 03/25/2020. CORRECTIVE ACTION: Review and certify the business plan via CERS. Your CERS ID number is 10043293.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 399937
Site Name: PRO CAST PRODUCTS INC
Violation Date: 10-02-2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/03/2018. Observed (1) 55 gallon drum containing waste antifreeze to have incomplete hazardous waste labeling. CORRECTIVE ACTION: Sign the Certificate of Compliance in attestation that all on site containers that actively hold hazardous

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PRO CAST PRODUCTS INC (Continued) **S104769171**

	waste have been labeled with the following information: -"Hazardous Waste" - Name and address of the generator - Physical and chemical characteristics of the Hazardous Waste - The accumulation date.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	10-18-2021
Citation:	HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Description:	Failure to include in the SPCC plan an adequate description of employee training. Training shall address, at a minimum: operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and regulations; general facility operations; content of the facility SPCC plan; and annual discharge prevention briefings for oil-handling personnel to assure adequate understanding of the SPCC plan.
Violation Notes:	Returned to compliance on 11/16/2021. OBSERVATION: Failure to include description of employee training procedures in the SPCC Plan. CORRECTIVE ACTION: Update the SPCC Plan to include employee training procedures.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	10-18-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 11/17/2021. OBSERVATION: The site map uploaded into CERS is missing the hazardous materials/hazardous waste storage area. CORRECTIVE ACTION: Submit an accurate and complete site map via CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	10-18-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to address in the SPCC Plan the type of oil and storage capacity for each fixed container. For mobile or portable containers, either provide the type of oil and storage capacity, or an estimate of the potential number of mobile or portable containers, the types of oil, and anticipated storage capacities.
Violation Notes:	Returned to compliance on 11/16/2021. OBSERVATION: The following materials are being under reported in the SPCC Plan: (1) 2,000 gallon tank od clear diesel, (2) 120 gallon containers of used oil, (3) 120 gallon containers of new oil and (1) 250 gallon container of new oil. CORRECTIVE ACTION: Amend the SPCC Plan to properly address the type of

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PRO CAST PRODUCTS INC (Continued) **S104769171**

	oil and storage capacity of all fixed and portable and/or mobile containers. Submit a signed statement indicating that the SPCC Plan has been properly updated.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	04-28-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 06/07/2016. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	10-18-2021
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 11/17/2021. OBSERVATION: The following materials are being under reported in CERS: (3) 120 gallon containers and (1) 250 gallon container of new oil, (1) 55 gallon drum of used oil filters, (1) 55 gallon drum of used antifreeze, and (2) 1,000 gallon tank and (1) 2,000 gallon tank of diesel. CORRECTIVE ACTION: Update the required business plan information via CERS. Your CERS ID number is 10043293.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	04-28-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/28/2016. Failure to label hazardous waste containers (CCR 66262.34(f)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	04-28-2016

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PRO CAST PRODUCTS INC (Continued) **S104769171**

Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/22/2016.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	04-28-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/28/2016. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	04-28-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/10/2016. Failure to obtain an EPA ID Number (CCR 66262.12(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Violation Date:	10-02-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/06/2018. The hazardous materials inventory submitted via CERS on 02/26/2018 does not fully disclose the hazardous materials/ hazardous waste observed on site. Update the hazardous materials to include the following: -Update the quantity of drained used oil filters from 55 gallons to 110 gallons -Update the quantity of diesel from 1000 gallons to 3200 gallons -Update the quantity of form oil from 150 gallons to 750 gallons CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory into the California Environmental Reporting System (CERS).
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC

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PRO CAST PRODUCTS INC (Continued) **S104769171**

Violation Date: 04-28-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 07/22/2016.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 399937
Site Name: PRO CAST PRODUCTS INC
Violation Date: 10-02-2018
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to provide appropriate secondary containment and/or diversionary structures or equipment for the following: bulk storage containers, mobile or portable containers, oil-filled equipment, piping and related appurtenances, mobile refuelers or non-transportation-related tank cars, and transfer areas, equipment and activities and ensure that the entire containment system, including walls and floor, are capable of containing oil and constructed so that any discharge will not escape the containment system before cleanup occurs.
Violation Notes: Returned to compliance on 10/02/2018. Observed (1) 55 gallon drums containing waste form oil to not be in/on appropriate secondary containment. Violation corrected on site at the time of the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF PRO CAST PRODUCTS INC IN HIGHLAND.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF PRO CAST PRODUCTS INC IN HIGHLAND.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-18-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department

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PRO CAST PRODUCTS INC (Continued) **S104769171**

Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-18-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF PRO CAST PRODUCTS INC IN HIGHLAND.
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-02-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-02-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-02-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-18-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

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PRO CAST PRODUCTS INC (Continued) **S104769171**

Enforcement Action:

Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Site Address:	27417 E 3RD ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	04-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	APSA
Enf Action Source:	CERS,

Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Site Address:	27417 E 3RD ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	04-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Site ID:	399937
Site Name:	PRO CAST PRODUCTS INC
Site Address:	27417 E 3RD ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	04-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS,

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,

Affiliation Type Desc:	Operator
Entity Name:	Paul Dicecca
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

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PRO CAST PRODUCTS INC (Continued) **S104769171**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 553-0445,
Affiliation Type Desc:	Legal Owner
Entity Name:	Warren Taylor
Entity Title:	Not reported
Affiliation Address:	P.O BOX 602
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 793-7602,
Affiliation Type Desc:	Property Owner
Entity Name:	Robertsons Ready Mix
Entity Title:	Not reported
Affiliation Address:	8353 Alabama St
Affiliation City:	Redlands
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92373
Affiliation Phone:	(951) 493-6500,
Affiliation Type Desc:	Document Preparer
Entity Name:	Paul DiCecca
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O BOX 602
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	PAUL DICECCA
Entity Title:	Safety Cordinator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	PRO CAST PRODUCTS INC

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PRO CAST PRODUCTS INC (Continued) **S104769171**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Sarina McMann
Entity Title:	Not reported
Affiliation Address:	24476 Toledo Lane
Affiliation City:	Lake Forest
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92630
Affiliation Phone:	,

Q89 **RAY'S AUTOREPAIR** **RCRA NonGen / NLR** **1025872228**
SE **27437 5TH ST STE 1** **CAL000445349**
1/8-1/4 **HIGHLAND, CA 92346**
0.188 mi.
992 ft. **Site 1 of 13 in cluster Q**

Relative:
Higher

Actual:
1204 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20190418
Handler Name:	RAY'S AUTOREPAIR	
Handler Address:		27437 5TH ST STE 1
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAL000445349
Contact Name:		RAYMOUNDO OCAMPO
Contact Address:		1224 CLAY ST
Contact City,State,Zip:		REDLANDS, CA 92374
Contact Telephone:		909-206-8911
Contact Fax:		Not reported
Contact Email:		RAYSAUTO@ATT.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		27437 5TH ST STE 1
Mailing City,State,Zip:		HIGHLAND, CA 92346
Owner Name:		RAYMOUNDO OCAMPO
Owner Type:		Other
Operator Name:		RAYMOUNDO OCAMPO
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No

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RAY'S AUTOREPAIR (Continued) **1025872228**

Recycler Activity with Storage:	Yes
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190628
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RAYMOUNDO OCAMPO
Legal Status:	Other
Date Became Current:	Not reported

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RAY'S AUTOREPAIR (Continued) **1025872228**

Date Ended Current:	Not reported
Owner/Operator Address:	1224 CLAY ST
Owner/Operator City,State,Zip:	REDLANDS, CA 92374
Owner/Operator Telephone:	909-206-8911
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	RAYMOUNDO OCAMPO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1224 CLAY ST
Owner/Operator City,State,Zip:	REDLANDS, CA 92374
Owner/Operator Telephone:	909-206-8911
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20190418
Handler Name: RAY'S AUTOREPAIR	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

Q90 **HIGHLAND CYCLES** **CA CERS HAZ WASTE** **S113126848**
SE **27437 5TH ST** **CA HAZNET** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS**
0.188 mi. **CA HWTS**
992 ft. **Site 2 of 13 in cluster Q**

Relative:
Higher

Actual:
1204 ft.

CERS HAZ WASTE:

Name:	TSR PERFORMANCE
Address:	27437 5TH ST STE 7
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	567877

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HIGHLAND CYCLES (Continued) **S113126848**

CERS ID: 10850593
CERS Description: Hazardous Waste Generator

HAZNET:
Name: HIGHLAND CYCLES
Address: 27437 5TH ST
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 923464265
Contact: PAUL MCMICHAEL
Telephone: 9098628546
Mailing Name: Not reported
Mailing Address: 27437 5TH ST

Year: 2009
Gepaid: CAL000271280
TSD EPA ID: TXD077603371
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.45

Additional Info:
Year: 2009
Gen EPA ID: CAL000271280

Shipment Date: 20090702
Creation Date: 11/25/2009 18:30:24
Receipt Date: 20090716
Manifest ID: 002007387SKS
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORT INC
TSDF EPA ID: TXD077603371
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.15
Waste Quantity: 300
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20090702
Creation Date: 11/25/2009 18:30:24
Receipt Date: 20090716
Manifest ID: 002007387SKS
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: OKD981588791

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HIGHLAND CYCLES (Continued) **S113126848**

Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	TSR PERFORMANCE
Address:	27437 5TH ST STE 7
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	567877
CERS ID:	10850593
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	567877
Site Name:	TSR Performance
Violation Date:	11-30-2021
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/30/2021. LAST HMBP SUBMITTED VIA CERS OCCURRED ON 08/27/2020. VIOLATION CORRECTED ON SITE.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	567877
Site Name:	TSR Performance
Violation Date:	11-30-2021
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 11/30/2021. OBSERVED (3) 55 GALLON DRUMS OF USED OIL, AND (1) 55 GALLON DRUM OF WASTE ANTIFREEZE TO NOT HAVE LABELING. VIOLATION CORRECTED ON SITE.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

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HIGHLAND CYCLES (Continued) **S113126848**

Site ID: 567877
Site Name: TSR Performance
Violation Date: 11-30-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 11/30/2021. OBSERVED (1) 55 GALLON DRUM OF NEW OIL, WHICH WAS NOT DISCLOSED IN THE CERS INVENTORY. VIOLATION CORRECTED ON SITE.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: German Vazquez
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 27437 W 5th St STE 7
Affiliation City: Highland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92346
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner

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HIGHLAND CYCLES (Continued) **S113126848**

Entity Name:	German Vazquez
Entity Title:	Not reported
Affiliation Address:	27437 5th St Ste 7
Affiliation City:	Highland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 280-2874,
Affiliation Type Desc:	Parent Corporation
Entity Name:	TSR Performance
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	German Vazquez
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	German Vazquez
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 273-4511,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Environmental Contact
Entity Name:	German Vazquez
Entity Title:	Not reported
Affiliation Address:	27437 5th St Ste 7
Affiliation City:	Highland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346

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HIGHLAND CYCLES (Continued) **S113126848**

Affiliation Phone: ,

HWTS:

Name:	HIGHLAND CYCLES
Address:	27437 5TH ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000271280
Inactive Date:	06/30/2020
Create Date:	06/05/2003
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	27437 5TH ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923460000
Owner Name:	MT MOTORSPORTS
Owner Address:	27437 5TH ST
Owner Address 2:	Not reported
Owner City,State,Zip:	HIGHLAND, CA 923464265
Contact Name:	PAUL MCMICHAEL JR
Contact Address:	27437 5TH ST
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.10734
Longitude:	-117.20598

NAICS:

EPA ID:	CAL000271280
Create Date:	2003-06-05 12:15:40.653
NAICS Code:	45299
NAICS Description:	All Other General Merchandise Stores
Issued EPA ID Date:	2003-06-05 12:15:40.62300
Inactive Date:	2020-06-30 00:00:00
Facility Name:	HIGHLAND CYCLES
Facility Address:	27437 5TH ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923464265

Q91 **HIGHLAND CYCLES** **RCRA NonGen / NLR** **1024806820**
SE **27437 5TH ST** **CAL000271280**
1/8-1/4 **HIGHLAND, CA 92346**
0.188 mi.
992 ft. **Site 3 of 13 in cluster Q**

Relative:
Higher

Actual:
1204 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20030605
Handler Name:	HIGHLAND CYCLES
Handler Address:	27437 5TH ST
Handler City,State,Zip:	HIGHLAND, CA 92346-4265
EPA ID:	CAL000271280

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HIGHLAND CYCLES (Continued) **1024806820**

Contact Name:	PAUL MCMICHAEL JR
Contact Address:	27437 5TH ST
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-862-8546
Contact Fax:	909-862-8087
Contact Email:	HIGHLANDCYCLES@YAHOO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27437 5TH ST
Mailing City,State,Zip:	HIGHLAND, CA 92346-0000
Owner Name:	MT MOTORSPORTS
Owner Type:	Other
Operator Name:	PAUL MCMICHAEL JR
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No

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HIGHLAND CYCLES (Continued) **1024806820**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PAUL MCMICHAEL JR
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27437 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8546
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MT MOTORSPORTS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27437 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4265
Owner/Operator Telephone:	909-862-8546
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20030605
Handler Name: HIGHLAND CYCLES	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

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HIGHLAND CYCLES (Continued) **1024806820**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 45299
NAICS Description: ALL OTHER GENERAL MERCHANDISE STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

Q92 **EAST VALLEY CHOPPERS** **CA HAZNET** **S113149699**
SE **27437 5TH ST STE 1** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA HWTS**
0.188 mi.
992 ft. **Site 4 of 13 in cluster Q**

Relative: Higher

Actual: 1204 ft.

HAZNET:
Name: EAST VALLEY CHOPPERS
Address: 27437 5TH ST STE 1
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 923464250
Contact: KEVIN M FLETCHER
Telephone: 9098643774
Mailing Name: Not reported
Mailing Address: 27437 5TH ST STE 1

Year: 2008
Gepaid: CAL000324484
TSD EPA ID: CAD982444481
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.209

Year: 2007
Gepaid: CAL000324484
TSD EPA ID: CAD982444481
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.418

Additional Info:
Year: 2008
Gen EPA ID: CAL000324484

Shipment Date: 20080404
Creation Date: 6/9/2008 18:30:18
Receipt Date: 20080410

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EAST VALLEY CHOPPERS (Continued) **S113149699**

Manifest ID:	003804492JJK
Trans EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAL000324484
Shipment Date:	20070926
Creation Date:	12/28/2007 18:31:29
Receipt Date:	20070927
Manifest ID:	003419813JJK
Trans EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

San Bern. Co. Permit:

Name:	JR AUTOMOTIVE
Address:	27437 5TH ST UNIT 1
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO

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EAST VALLEY CHOPPERS (Continued) **S113149699**

Facility ID: FA0015988
Owner: Jorge Acosta
Permit Number: PT0034687
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2020

Name: JR AUTOMOTIVE
Address: 27437 5TH ST UNIT 1
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0015988
Owner: Jorge Acosta
Permit Number: PT0034686
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 05/31/2020

HWTS:

Name:	EAST VALLEY CHOPPERS
Address:	27437 5TH ST STE 1
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000324484
Inactive Date:	06/30/2008
Create Date:	09/04/2007
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	27437 5TH ST STE 1
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923464250
Owner Name:	KEVIN M FLETCHER
Owner Address:	34594 AVENUE C
Owner Address 2:	Not reported
Owner City,State,Zip:	YUCAIPA, CA 923994113
Contact Name:	KEVIN M FLETCHER
Contact Address:	27437 5TH ST STE 1
Contact Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 923464250
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.107652
Longitude:	-117.205803

NAICS:

EPA ID:	CAL000324484
Create Date:	2007-09-04 13:56:19.413
NAICS Code:	81149
NAICS Description:	Other Personal and Household Goods Repair and Maintenance
Issued EPA ID Date:	2007-09-04 13:56:19.40000
Inactive Date:	2008-06-30 00:00:00
Facility Name:	EAST VALLEY CHOPPERS
Facility Address:	27437 5TH ST STE 1
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported

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EAST VALLEY CHOPPERS (Continued) **S113149699**

Facility State: CA
Facility Zip: 923464250

Q93 **RAYS AUTO REPAIR** **RCRA NonGen / NLR** **1026817451**
SE **27437 5TH ST** **CAC003130208**
1/8-1/4 **HIGHLAND, CA 92346**
0.188 mi.
992 ft. **Site 5 of 13 in cluster Q**

Relative: **Higher**
Actual: **1204 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20210720
Handler Name:	RAYS AUTO REPAIR	
Handler Address:		27437 5TH ST
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAC003130208
Contact Name:		RAY OCAMPO
Contact Address:		27437 5TH ST
Contact City,State,Zip:		HIGHLAND, CA 92346
Contact Telephone:		909-674-7959
Contact Fax:		951-346-3378
Contact Email:		YVETTE@ENVIROPROSCA.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		27437 5TH ST
Mailing City,State,Zip:		HIGHLAND, CA 92346
Owner Name:		RAY OCAMPO
Owner Type:		Other
Operator Name:		RAY OCAMPO
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported

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RAYS AUTO REPAIR (Continued) **1026817451**

Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210720
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RAY OCAMPO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27437 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-674-7959
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RAY OCAMPO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27437 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346

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RAYS AUTO REPAIR (Continued) **1026817451**

Owner/Operator Telephone: 909-674-7959
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20210720
Handler Name: RAYS AUTO REPAIR
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

Q94 **JR AUTOMOTIVE** **RCRA NonGen / NLR** **1024843101**
SE **27437 5TH ST STE 1** **CAL000394191**
1/8-1/4 **HIGHLAND, CA 92346**
0.188 mi.
992 ft. **Site 6 of 13 in cluster Q**

Relative: **Higher**
Actual: **1204 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20140219
Handler Name: JR AUTOMOTIVE
Handler Address: 27437 5TH ST STE 1
Handler City,State,Zip: HIGHLAND, CA 92346-4250
EPA ID: CAL000394191
Contact Name: JORGE ACOSTA
Contact Address: 28 PRICE ST
Contact City,State,Zip: REDLANDS, CA 92373
Contact Telephone: 909-520-9589
Contact Fax: Not reported
Contact Email: JRAUTOMOTIVE7467@ATT.NET
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities

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JR AUTOMOTIVE (Continued) **1024843101**

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27437 5TH ST STE 1
Mailing City,State,Zip:	HIGHLAND, CA 92346-4250
Owner Name:	JORGE M ACOSTA
Owner Type:	Other
Operator Name:	JORGE ACOSTA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No

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JR AUTOMOTIVE (Continued) **1024843101**

Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JORGE M ACOSTA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	28 PRICE ST
Owner/Operator City,State,Zip:	REDLANDS, CA 92373
Owner/Operator Telephone:	909-520-9589
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JORGE ACOSTA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	28 PRICE ST
Owner/Operator City,State,Zip:	REDLANDS, CA 92373
Owner/Operator Telephone:	909-520-9589
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20140219
Handler Name: JR AUTOMOTIVE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

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JR AUTOMOTIVE (Continued) **1024843101**

Evaluation Action Summary:
Evaluations: No Evaluations Found

Q95 **TSR PERFORMANCE** **RCRA NonGen / NLR** **1026491605**
SE **27437 5TH ST** **CAL000456362**
1/8-1/4 **HIGHLAND, CA 92346**
0.188 mi.
992 ft. **Site 7 of 13 in cluster Q**

Relative:
Higher

Actual:
1204 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	20200820
Handler Name: TSR PERFORMANCE	
Handler Address:	27437 5TH ST
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000456362
Contact Name:	GERMAN VAZQUEZ
Contact Address:	27437 5TH ST
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-273-4511
Contact Fax:	Not reported
Contact Email:	TSRAUTOPERFORMANCE@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27437 5TH ST
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	TSR PERFORMANCE LLC
Owner Type:	Other
Operator Name:	GERMAN VAZQUEZ
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N

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TSR PERFORMANCE (Continued) **1026491605**

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200904
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GERMAN VAZQUEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27437 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-273-4511
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TSR PERFORMANCE LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27437 5TH ST

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TSR PERFORMANCE (Continued) **1026491605**

Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-280-2874
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200820
Handler Name: TSR PERFORMANCE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

P96 **ROBERTSONS READY MIX** **CA AST** **S106803239**
SE **27401 E 3RD** **CA SWEEPS UST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.193 mi.
1017 ft. **Site 2 of 6 in cluster P**

Relative:
Higher

Actual:
1204 ft.

AST:

Name:	ROBERTSON'S READY MIX
Address:	27401 3RD ST
City/Zip:	HIGHLAND,92346
Certified Unified Program Agencies:	Not reported
Owner:	ROBERTSON'S READY MIX
Total Gallons:	Not reported
CERSID:	10043923
Facility ID:	FA0005772
Business Name:	Robertson's
Phone:	951-493-6500
Fax:	Not reported
Mailing Address:	P.O. Box 3600
Mailing Address City:	Corona
Mailing Address State:	CA
Mailing Address Zip Code:	92878
Operator Name:	Robertson's Ready Mix
Operator Phone:	951-493-6500
Owner Phone:	9.5149365004e+012

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ROBERTSONS READY MIX (Continued) **S106803239**

Owner Mail Address:	P.O. Box 3600
Owner State:	CA
Owner Zip Code:	92878
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAL000314786

SWEEPS UST:

Name:	ROBERTSONS READY MIX
Address:	27401 E 3RD
City:	HIGHLAND
Status:	Active
Comp Number:	687
Number:	1
Board Of Equalization:	44-019768
Referral Date:	03-23-92
Action Date:	03-23-92
Created Date:	05-01-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-000687-000001
Tank Status:	A
Capacity:	1000
Active Date:	05-01-89
Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	1

P97 **ROBERTSON'S READY MIX** **RCRA NonGen / NLR** **1024795615**
SE **27401 3RD ST** **CAL000168397**
1/8-1/4 **HIGHLAND, CA 92346**
0.193 mi.
1017 ft. **Site 3 of 6 in cluster P**

Relative:
Higher

Actual:
1204 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		19960806
Handler Name:	ROBERTSON'S READY MIX	
Handler Address:		27401 3RD ST
Handler City,State,Zip:		HIGHLAND, CA 92346-0000
EPA ID:		CAL000168397
Contact Name:		JACKIE MCEVOY
Contact Address:		PO BOX 3600
Contact City,State,Zip:		CORONA, CA 92878-3600
Contact Telephone:		951-493-6500
Contact Fax:		951-493-6442
Contact Email:		JACKIEM@RRMCA.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported

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ROBERTSON'S READY MIX (Continued) **1024795615**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 3600
Mailing City,State,Zip:	CORONA, CA 92878-3600
Owner Name:	ROBERTSONS READY MIX INC
Owner Type:	Other
Operator Name:	JACKIE MCEVOY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No

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ROBERTSON'S READY MIX (Continued) **1024795615**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ROBERTSONS READY MIX INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 3600
Owner/Operator City,State,Zip:	CORONA, CA 92878-3600
Owner/Operator Telephone:	909-685-2200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JACKIE MCEVOY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 3600
Owner/Operator City,State,Zip:	CORONA, CA 92878-3600
Owner/Operator Telephone:	951-493-6500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960806
Handler Name: ROBERTSON'S READY MIX	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	333923
NAICS Description:	OVERHEAD TRAVELING CRANE, HOIST, AND MONORAIL SYSTEM MANUFACTURING

Facility Has Received Notices of Violations:

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ROBERTSON'S READY MIX (Continued) **1024795615**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

P98 **ROBERTSON'S READY MIX** **CA HAULERS** **U003971299**
SE **27401 3RD ST** **CA CERS HAZ WASTE** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS TANKS**
0.193 mi. **CA San Bern. Co. Permit**
1017 ft. **Site 4 of 6 in cluster P** **CA CIWQS**
CA CERS

Relative:
Higher

Actual:
1204 ft.

HAULERS:

Name:	ROBERTSON'S READY MIX, LTD
Address:	27401 3RD ST
City,State,Zip:	HIGHLAND, CA
Facility ID:	1293256
Facility Phone:	(909) 425-2930
Business Email Address:	psousa@rrmca.com
Contact Person:	Phil Sousa
Mailing Address:	PO Box 3600
Mailing City:	Corona
Mailing State:	CA
Mailing Zip:	92878
Mailing County:	Riverside
Mailing Phone:	(951) 493-6500
Current Status:	Active
Current Hauler Status:	Hauler-Registered
Accepting Tires From Public:	Not reported
Regulatory Status Last Changed:	Not reported
Business Types:	Not reported

CERS HAZ WASTE:

Name:	ROBERTSON'S READY MIX
Address:	27401 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	62439
CERS ID:	10043923
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	ROBERTSON'S READY MIX
Address:	27401 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	62439
CERS ID:	10043923
CERS Description:	Aboveground Petroleum Storage

San Bern. Co. Permit:

Name:	ROBERTSON'S READY MIX
Address:	27401 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0005772
Owner:	ROBERTSON'S READY MIX

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ROBERTSON'S READY MIX (Continued) **U003971299**

Permit Number: PT0022956
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 09/30/2022

Name: ROBERTSON'S READY MIX
Address: 27401 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0005772
Owner: ROBERTSON'S READY MIX
Permit Number: PT0004304
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2022

Name: ROBERTSON'S READY MIX
Address: 27401 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0005772
Owner: ROBERTSON'S READY MIX
Permit Number: PT0004305
Permit Category: LARGE QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2022

Name: ROBERTSON'S READY MIX
Address: 27401 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0005772
Owner: ROBERTSON'S READY MIX
Permit Number: PT0010896
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 09/30/2004

CIWQS:

Name:	ROBERTSONS READY MIX TRUCK MAI
Address:	27401 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Agency:	Robertsons Ready Mix
Agency Address:	PO Box 3600, Corona, CA 92878
Place/Project Type:	Industrial - Construction Machinery and Equipment
SIC/NAICS:	3531
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I005067
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/07/1992
Termination Date:	09/04/2015
Expiration/Review Date:	Not reported

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ROBERTSON'S READY MIX (Continued) **U003971299**

Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.10674
Longitude:	-117.20709

CERS:

Name:	ROBERTSON'S READY MIX
Address:	27401 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	62439
CERS ID:	10043923
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	10-04-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to implement the SPCC Plan.
Violation Notes:	Returned to compliance on 10/22/2021. OBSERVATION: The SPCC plan stated monthly documented inspections on the aboveground tanks would be conducted and documents kept on site for three years. SPCC plan also stated training documents would be kept onsite for three years. At the time of inspection, monthly tank inspection documents and training documents were not provided for the last three years. CORRECTIVE ACTION: Implement the SPCC Plan. Submit a signed statement indicating that the SPCC plan has been properly implemented.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,

Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	04-12-2016
Citation:	HSC 6.67 25270.6(a)(2) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.6(a)(2)
Violation Description:	Failure to submit a Tank Facility Statement or Business Plan.
Violation Notes:	Returned to compliance on 06/28/2016.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,

Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	10-03-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/31/2018. The following updates to the hazardous materials inventory shall occur as a result of the

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ROBERTSON'S READY MIX (Continued) **U003971299**

inspection: -Update the maximum daily amount of drained used oil filters on site from 220 gallons to 550 gallons. -Update the maximum daily amount of grease on site from 220 gallons to 750 gallons. -Add 350 gallon of waste automotive coolant. The largest container size observed on site was 350 gallons. -Add 160 gallons of Tristar Safezone. -Add 160 gallons of Sandstorm Truck Cleaner -Add 200 gallons of Tristar DAB 1521 -Decease the quantity of diesel to the maximum daily amount to the maximum kept on site at any given time. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory into the California Environmental Reporting System (CERS).

Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 62439
Site Name: ROBERTSON'S READY MIX
Violation Date: 04-12-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/08/2016. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 62439
Site Name: ROBERTSON'S READY MIX
Violation Date: 10-03-2018
Citation: HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Description: Failure to complete a review and evaluation of the SPCC Plan at least once every five years, document the completion of the review, and sign a statement as to whether the SPCC Plan will be amended.
Violation Notes: Returned to compliance on 10/31/2018. The SPCC Plan was last reviewed on 05/15/2013 at the time of the inspection. CORRECTIVE ACTION: Sign the Certificate of Compliance in attestation that the 5-year review has been performed, documented and SPCC plan amended if necessary.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 62439
Site Name: ROBERTSON'S READY MIX
Violation Date: 04-12-2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to schedule and conduct spill prevention briefings at least once a year.
Violation Notes: Returned to compliance on 07/08/2016.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS,

Site ID: 62439
Site Name: ROBERTSON'S READY MIX
Violation Date: 10-03-2018

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ROBERTSON'S READY MIX (Continued) **U003971299**

Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide appropriate secondary containment and/or diversionary structures or equipment for the following: bulk storage containers, mobile or portable containers, oil-filled equipment, piping and related appurtenances, mobile refuelers or non-transportation-related tank cars, and transfer areas, equipment and activities and ensure that the entire containment system, including walls and floor, are capable of containing oil and constructed so that any discharge will not escape the containment system before cleanup occurs.
Violation Notes:	Returned to compliance on 10/31/2018. Observed (1) ~100 gallon aboveground storage tank (AST) containing diesel fuel to not have appropriately sized secondary containment. CORRECTIVE ACTION: Sign the Certificate of Compliance in attestation that all containers that actively hold petroleum based materials aboveground in a capacities greater than 55 gallons have appropriate secondary containment and/or diversionary structures have been properly provided as applicable.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	10-04-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to test or inspect each aboveground container for integrity based on industry standards as discussed in the SPCC Plan: 1. On a regular schedule. 2. After making material repairs. 3. Use non-destructive testing. 4. Inspect each container s supports, foundations, and outside for signs of deterioration, discharges, or accumulation of oil inside diked areas.
Violation Notes:	Returned to compliance on 10/22/2021. OBSERVATION: Failure to provide documents indicating integrity testing was conducted on the aboveground tanks stored onsite. CORRECTIVE ACTION: Test or inspect each aboveground container for integrity based on industry standards (e.g STI SP001) on a regular schedule and/or after making equipment repairs. Submit a signed statement indicating aboveground containers are tested and inspected as required.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	04-12-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/08/2016. Failure to label hazardous waste containers (CCR 66262.34(f)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	62439

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ROBERTSON'S READY MIX (Continued) **U003971299**

Site Name:	ROBERTSON'S READY MIX
Violation Date:	10-04-2021
Citation:	22 CCR 15 66265.192(k) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(k)
Violation Description:	Failure to include all required information in the tank system assessment.
Violation Notes:	OBSERVATION: The written hazardous waste tank system assessment for the (2) 1,000 gallon waste oil tanks were not provided. CORRECTIVE ACTION: Locate a copy of the waste tank system assessment for the (2) 1,000 gallon waste oil tank system in accordance with 22 CCR 15 66265.192(k) and submit a copy to the CUPA.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	04-12-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/08/2016. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	10-03-2018
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 10/03/2018. Observed (1) 55 gallon drum containing drained used oil filters to be open while not in use at the time of the inspection. Violation corrected on site at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	04-12-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/08/2016. Failure to inspect Hazardous Waste tank (CCR 66265.195)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	04-12-2016

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ROBERTSON'S READY MIX (Continued) **U003971299**

Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/08/2016. Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	04-12-2016
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 04/12/2016.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	04-12-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 04/12/2016. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	10-03-2018
Citation:	22 CCR 16 66266.81(a)(1) - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.81(a)(1)
Violation Description:	Failure to meet the spent lead acid battery management requirements, when handling, storing, or transporting more than 10 lead acid batteries at any one time.
Violation Notes:	Returned to compliance on 10/31/2018. Observed ~(50) lead acid batteries on site that were not labeled with the date taken out of service. Operator stated these batteries have been on site for less than two weeks. CORRECTIVE ACTION: Sign the Certificate of Compliance in attestation that when the facility stores greater than 10 spent lead acid batteries; the accumulated batteries are labeled with the date taken out of service, and are not stored on site for greater than one year.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	62439
Site Name:	ROBERTSON'S READY MIX
Violation Date:	04-12-2016
Citation:	HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter

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ROBERTSON'S READY MIX (Continued) **U003971299**

6.95, Section(s) 25508.1(a)-(e)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes: Returned to compliance on 06/28/2016.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-12-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF ROBERTSON'S READY MIX IN REDLANDS.
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-03-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-04-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-03-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-04-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

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ROBERTSON'S READY MIX (Continued) **U003971299**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-12-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF ROBERTSON'S READY MIX IN REDLANDS.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-12-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION OF ROBERTSON'S READY MIX IN REDLANDS.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-03-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-04-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 62439
Site Name: ROBERTSON'S READY MIX
Site Address: 27401 3RD ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 04-12-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: APSA
Enf Action Source: CERS,

Site ID: 62439
Site Name: ROBERTSON'S READY MIX
Site Address: 27401 3RD ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 04-12-2016
Enf Action Type: Notice of Violation (Unified Program)

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ROBERTSON'S READY MIX (Continued) **U003971299**

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 62439
Site Name: ROBERTSON'S READY MIX
Site Address: 27401 3RD ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 04-12-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 62439
Facility Name: ROBERTSON'S READY MIX
Env Int Type Code: HWG
Program ID: 10043923
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 34.106370
Longitude: -117.206510

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 3600
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92878
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Robertson's Ready Mix
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported

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ROBERTSON'S READY MIX (Continued) **U003971299**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(951) 493-6500,
Affiliation Type Desc:	Parent Corporation
Entity Name:	ROBERTSON'S
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jackie McEvoy
Entity Title:	Not reported
Affiliation Address:	PO BOX 3600
Affiliation City:	CORONA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92878
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	Jackie McEvoy
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Jackie McEvoy
Entity Title:	Environmental Services
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Robertson's Ready Mix
Entity Title:	Not reported
Affiliation Address:	P.O. Box 3600
Affiliation City:	CORONA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92878
Affiliation Phone:	(951) 493-6500,

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P99 **ROBERTSON'S READY MIX** **CA UST** **U004050779**
SE **27401 3RD ST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.193 mi.
1017 ft. **Site 5 of 6 in cluster P**

Relative: UST:
Higher
Actual: Name: ROBERTSON'S READY MIX
1204 ft. Address: 27401 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Facility ID: 89018112
Permitting Agency: SAN BERNARDINO COUNTY
CERSID: Not reported
Latitude: 34.107716
Longitude: -117.205162

Q100 **CHEPE'S AUTO BODY** **CA CERS HAZ WASTE** **S113108038**
SE **27437 E 5TH ST** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS**
0.195 mi.
1031 ft. **Site 8 of 13 in cluster Q**

Relative: CERS HAZ WASTE:
Higher
Actual: Name: CHEPE'S AUTO BODY
1204 ft. Address: 27437 E 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 18160
CERS ID: 10312252
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: CHEPE'S AUTO BODY
Address: 27437 E 5TH ST STE 6
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0013893
Owner: CHEPE'S AUTO BODY
Permit Number: PT0024420
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 09/30/2013

Name: CHEPE'S AUTO BODY
Address: 27437 E 5TH ST STE 6
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0013893
Owner: CHEPE'S AUTO BODY
Permit Number: PT0028219
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: INACTIVE
Expiration Date: 09/30/2014

CERS:
Name: CHEPE'S AUTO BODY
Address: 27437 E 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 18160
CERS ID: 10312252

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CHEPE'S AUTO BODY (Continued) **S113108038**

CERS Description: Chemical Storage Facilities

Violations:

Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Violation Date: 06-18-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/08/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Violation Date: 02-10-2020
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Inactive. EPA ID Number CAL000356106. CORRECTIVE ACTION: Comply by submitting form 1358 to DTSC.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Violation Date: 03-24-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/08/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a)) EPA ID number inactive.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Violation Date: 06-18-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 06/18/2014. Failure to obtain a CUPA Hazardous Waste Generator Permit (SBCC 23.0602(b)(1))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Violation Date: 02-10-2020
Citation: Un-Specified

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CHEPE'S AUTO BODY (Continued) **S113108038**

Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes: Returned to compliance on 03/13/2020. Inactive. Exp. 09/30/2019. CORRECTIVE ACTION: Comply by paying all applicable permit fees upon receipt of invoice and submitting all necessary information.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Violation Date: 03-24-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 05/08/2017. Failure to establish a Contingency Plan (CCR 66265.51(a)) Contingency plan not established.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Violation Date: 03-24-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/08/2017. Failure to obtain a CUPA Hazardous Waste Generator Permit (SBCC 23.0602(b)(1)) CUPA hazardous waste generator permit not obtained.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-18-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION. BUSINESS PLAN CONSULTATION. RETURN OF COMPLIANCE REQUIREMENT'S CONSULTATION.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-10-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-24-2017

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CHEPE'S AUTO BODY (Continued) **S113108038**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION FOR CHEPE'S AUTO BODY.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Site Address: 27437 E 5TH ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 03-24-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Site Address: 27437 E 5TH ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 06-18-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 18160
Site Name: CHEPE'S AUTO BODY
Site Address: 27437 E 5TH ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 06-18-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UNSPEC
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153

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CHEPE'S AUTO BODY (Continued) **S113108038**

Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Operator
Entity Name:	los chepes auto body
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 709-1581,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	27437 E 5TH ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	CHEPE'S AUTO BODY
Entity Title:	Not reported
Affiliation Address:	201 E 11TH
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92410
Affiliation Phone:	(909) 709-1581,
Affiliation Type Desc:	Parent Corporation
Entity Name:	CHEPE'S AUTO BODY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	JOSE GARATE
Entity Title:	Not reported
Affiliation Address:	27437 E 5TH ST #6
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,

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Q101 **ORIGINAL BODY SHOP** **CA San Bern. Co. Permit** **S111160509**
SE **27437 E 5TH ST UNIT 3** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.195 mi.
1031 ft. **Site 9 of 13 in cluster Q**

Relative:
Higher

Actual:
1204 ft.

San Bern. Co. Permit:

Name:	ORIGINAL BODY SHOP
Address:	27437 E 5TH ST UNIT 3
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0005121
Owner:	VALENCIA, RAFAEL
Permit Number:	PT0013400
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	08/31/2011

Name:	ORIGINAL BODY SHOP
Address:	27437 E 5TH ST UNIT 3
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0005121
Owner:	VALENCIA, RAFAEL
Permit Number:	PT0000509
Permit Category:	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2009

Q102 **AUSTIN ASTIN TRANSM SPECIALIST** **EDR Hist Auto** **1021509058**
SE **27437 EAST 5TH STREET** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.195 mi.
1031 ft. **Site 10 of 13 in cluster Q**

Relative:
Higher

Actual:
1204 ft.

EDR Hist Auto

Year:	Name:	Type:
1989	AUSTIN ASTIN TRANSM SPECIALIST	Automotive Transmission Repair Shops
1990	AUSTIN ASTIN TRANSM SPECIALIST	Automotive Transmission Repair Shops

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Q103 **TSR PERFORMANCE** **CA San Bern. Co. Permit** **S127020230**
SE **27437 W 5TH ST STE 7** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.195 mi.
1031 ft. **Site 11 of 13 in cluster Q**

Relative:
Higher

Actual:
1204 ft.

San Bern. Co. Permit:

Name:	TSR PERFORMANCE
Address:	27437 W 5TH ST STE 7
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0018653
Owner:	GERMAN VAZQUEZ
Permit Number:	PT0040259
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	10/31/2022

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P104 **PROPARTS** **CA San Bern. Co. Permit** **S110169010**
SE **27445 E 3RD STREET** **CA CERS** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.202 mi.
1066 ft. **Site 6 of 6 in cluster P**

Relative:
Higher

Actual:
1204 ft.

San Bern. Co. Permit:

Name:	PROPARTS
Address:	27445 E 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0013071
Owner:	PROPARTS
Permit Number:	PT0022989
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	03/31/2022

CERS:

Name:	PROPARTS
Address:	27445 E 3RD STREET
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	561969
CERS ID:	10831762
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	561969
Site Name:	Proparts
Violation Date:	12-03-2019
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 01/14/2020. This facility requires an active hazardous materials handler permit. Hazardous materials handler permits have been inactive since 2013. CORRECTIVE ACTION: Pay all applicable permit fees upon receipt of invoice.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	561969
Site Name:	Proparts
Violation Date:	12-03-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/14/2020. A complete and accurate hazardous materials business plan has not been submitted via CERS. CORRECTIVE ACTION: Submit an accurate and complete business plan into the California Environmental Reporting System (CERS).
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection

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PROPARTS (Continued) **S110169010**

Eval Date: 12-03-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Jackie McEvoy
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 3600
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92878
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Proparts
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 425-8931,

Affiliation Type Desc: Parent Corporation
Entity Name: ROBERTSON'S
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

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PROPARTS (Continued) **S110169010**

Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Proparts
Entity Title: Not reported
Affiliation Address: P.O. Box 3600
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92878
Affiliation Phone: (951) 493-6500,

Affiliation Type Desc: Environmental Contact
Entity Name: Jackie McEvoy
Entity Title: Not reported
Affiliation Address: P.O. Box 3600
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92878
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Jackie McEvoy
Entity Title: Administrator
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

R105 **ELITE LAWN & LANDSCAPE** **CA San Bern. Co. Permit** **S106910812**
WSW **26975 5TH ST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.207 mi.
1094 ft. **Site 1 of 3 in cluster R**

Relative: **Lower**

Actual: **1169 ft.**

San Bern. Co. Permit:
Name: ELITE LAWN & LANDSCAPE
Address: 26975 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0002894
Owner: VILLAMERO, EDWARD
Permit Number: PT0001210
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2003

Name: ELITE LAWN & LANDSCAPE
Address: 26975 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0002894
Owner: VILLAMERO, EDWARD
Permit Number: PT0001212

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ELITE LAWN & LANDSCAPE (Continued) **S106910812**

Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2003

Q106 **MILLER AUTOMOTIVE** **CA San Bern. Co. Permit** **S106911213**
ESE **27454 5TH ST** **CA HWTS** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.213 mi.
1122 ft. **Site 12 of 13 in cluster Q**

Relative:
Higher

Actual:
1205 ft.

San Bern. Co. Permit:
Name: MILLER AUTOMOTIVE
Address: 27454 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0007549
Owner: MILLER, MICHAEL R
Permit Number: PT0012950
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 12/31/2003

Name: MILLER AUTOMOTIVE
Address: 27454 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0007549
Owner: MILLER, MICHAEL R
Permit Number: PT0012951
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 12/31/2003

HWTS:
Name: MILLER AUTOMOTIVE
Address: 27454 5TH ST
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346
EPA ID: CAL000237851
Inactive Date: 06/30/2002
Create Date: 09/27/2001
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 27454 5TH ST
Mailing Address 2: Not reported
Mailing City,State,Zip: HIGHLAND, CA 923460000
Owner Name: MICHAEL ROBERT MILLER
Owner Address: 27454 5TH ST
Owner Address 2: Not reported
Owner City,State,Zip: HIGHLAND, CA 923460000
Contact Name: MICHAEL ROBERT MILLER
Contact Address: 27454 5TH ST
Contact Address 2: Not reported
City,State,Zip: HIGHLAND, CA 923460000
Facility Status: Inactive
Facility Type: PERMANENT
Category: STATE

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MILLER AUTOMOTIVE (Continued) **S106911213**

Latitude: 34.107661
Longitude: -117.205381

NAICS:
EPA ID: CAL000237851
Create Date: 2002-03-14 16:36:29.000
NAICS Code: 811111
NAICS Description: General Automotive Repair
Issued EPA ID Date: 2001-09-27 00:00:00
Inactive Date: 2002-06-30 00:00:00
Facility Name: MILLER AUTOMOTIVE
Facility Address: 27454 5TH ST
Facility Address 2: Not reported
Facility City: HIGHLAND
Facility County: Not reported
Facility State: CA
Facility Zip: 923460000

Q107 **ADVANCED AUTOMOTIVE** **CA San Bern. Co. Permit** **S106229994**
SE **27454 E 5TH ST** **N/A**
1/8-1/4 **HIGHLAND, CA 92346**
0.215 mi.
1133 ft. **Site 13 of 13 in cluster Q**

Relative:
Higher

Actual:
1205 ft.

San Bern. Co. Permit:
Name: ADVANCED AUTOMOTIVE
Address: 27454 E 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0008322
Owner: ZABIHI, MIKE
Permit Number: PT0014554
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2004

Name: ADVANCED AUTOMOTIVE
Address: 27454 E 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0008322
Owner: ZABIHI, MIKE
Permit Number: PT0014555
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 05/31/2004

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R108 **S&S INLANDSTAR** **CA CERS HAZ WASTE** **S107592134**
WSW **26967 5TH ST** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS**
0.225 mi. **CA HWTS**
1188 ft. **Site 2 of 3 in cluster R**

Relative:
Lower

Actual:
1168 ft.

CERS HAZ WASTE:

Name:	S&S INLANDSTAR
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	150771
CERS ID:	10050988
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	S&S INLANDSTAR
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0015635
Owner:	SAM SWARTZ-
Permit Number:	PT0034311
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	11/30/2022

Name:	S&S INLANDSTAR
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0015635
Owner:	SAM SWARTZ-
Permit Number:	PT0034312
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	11/30/2022

Name:	SANCHEZ AUTOMOTIVE SERVICE
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0010276
Owner:	SANCHEZ, DANIEL & LORENA
Permit Number:	PT0032316
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	03/31/2015

Name:	SANCHEZ AUTOMOTIVE SERVICE
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0010276
Owner:	SANCHEZ, DANIEL & LORENA
Permit Number:	PT0017462
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	03/31/2009

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S&S INLANDSTAR (Continued) **S107592134**

Name: MARTIN'S AUTOMOTIVE
Address: 26967 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0004600
Owner: MARTIN, GERALD T.
Permit Number: PT0004422
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2006

CERS:
Name: S&S INLANDSTAR
Address: 26967 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 150771
CERS ID: 10050988
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 07-10-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/10/2017. Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a)) Failure to keep Hazardous Waste containers closed when not in use.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 07-02-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/10/2020. OBSERVED (1) 55 GALLON DRUM OF USED LUBRICATING OIL, AND (1) 30 GALLON PARTS WASHER, WHICH WERE NOT DISCLOSED IN THE CERS INVENTORY. CORRECTIVE ACTION: COMPLY BY SUBMITTING AND ACCURATE AND COMPLETE HAZARDOUS MATERIALS INVENTORY VIA CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 12-01-2014
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable

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S&S INLANDSTAR (Continued) **S107592134**

quantities.
Violation Notes: Returned to compliance on 07/11/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 07-10-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/30/2017. Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 12-01-2014
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 07/11/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 12-01-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/11/2017. Failure to establish a Contingency Plan (CCR 66265.51(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 07-10-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/30/2017. Failure to establish a Contingency Plan (CCR 66265.51(a)) Failure to establish a Contingency Plan.
Violation Division: San Bernardino County Fire Department
Violation Program: HW

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S&S INLANDSTAR (Continued) **S107592134**

Violation Source:	CERS,
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-02-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 08/10/2020. LAST HMBP SUBMITTED VIA CERS OCCURRED ON 07/11/2017. CORRECTIVE ACTION: COMPLY BY REVIEWING AND CERTIFYING THE BUSINESS PLAN ANNUALLY.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-10-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/10/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a)) Failure to obtain/maintain an active EPA ID Number. A facility or individual shall not treat, store, dispose of, transport, or offer for transportation a Hazardous Waste unless an EPA ID Number has been obtained.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-02-2020
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description:	Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes:	Returned to compliance on 07/02/2020. EPA ID NUMBER CAL000405511 WAS INACTIVE. CORRECTED ON SITE.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	12-01-2014
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/10/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW

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S&S INLANDSTAR (Continued) **S107592134**

Violation Source:	CERS,
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-02-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 08/10/2020. FACILITY DISCLOSED EMAIL ADDRESS AS THE PHYSICAL ADDRESS IN THE OWNERSHIP INFORMATION SECTION. CORRECTIVE ACTION: COMPLY BY SUBMITTING THE BUSINESS OWNER/OPERATOR IDENTIFICATION PAGE AS REQUIRED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-10-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/10/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Failure to ensure that the following information is present and legible on a Hazardous Waste label: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste and starting accumulation date.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-10-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/30/2017. Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-02-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation

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S&S INLANDSTAR (Continued) **S107592134**

date.
Violation Notes: Returned to compliance on 07/02/2020. OBSERVED (1) 55 GALLON DRUM CONTAINING USED LUBRICATING OIL TO NOT HAVE HAZARDOUS WASTE LABELING. CORRECTED ON SITE.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: S S INLAND INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION OF S&S INLAND STAR.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION OF S&S INLAND STAR.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2014
Violations Found: Yes

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S&S INLANDSTAR (Continued) **S107592134**

Eval Type: Routine done by local agency
Eval Notes: S S INLAND INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 150771
Site Name: S&S INLANDSTAR
Site Address: 26967 5TH ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 12-01-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 150771
Site Name: S&S INLANDSTAR
Site Address: 26967 5TH ST
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 12-01-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 150771
Facility Name: S&S INLANDSTAR
Env Int Type Code: HMBP
Program ID: 10050988
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 34.108009
Longitude: -117.216949

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 26967 5TH ST
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92346
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: SAM SWARTZ

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S&S INLANDSTAR (Continued) **S107592134**

Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	S & S Inland Star
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	S&S INLAND STAR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 864-4701,
Affiliation Type Desc:	Legal Owner
Entity Name:	SAM SWARTZ-
Entity Title:	Not reported
Affiliation Address:	26967 5th st
Affiliation City:	Highland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 864-4701,
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Document Preparer
Entity Name:	SAM SWARTZ
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

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S&S INLANDSTAR (Continued) **S107592134**

Affiliation Type Desc:	Environmental Contact
Entity Name:	SAM SWARTZ
Entity Title:	Not reported
Affiliation Address:	26967 5TH ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,

HWTS:

Name:	SANCHEZ AUTOMOTIVE SERVICE
Address:	26967 5TH ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAL000304636
Inactive Date:	06/30/2011
Create Date:	03/21/2006
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	26967 5TH ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923464207
Owner Name:	DANIEL & LORENA SANCHEZ
Owner Address:	12846 PENSKE ST
Owner Address 2:	Not reported
Owner City,State,Zip:	MORENO VALLEY, CA 925535212
Contact Name:	DANIEL SANCHEZ
Contact Address:	12846 PENSKE ST
Contact Address 2:	Not reported
City,State,Zip:	MORENO VALLEY, CA 925535212
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.10801
Longitude:	-117.21695

NAICS:

EPA ID:	CAL000304636
Create Date:	2006-03-21 13:04:52.177
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2006-03-21 13:04:52.11300
Inactive Date:	2011-06-30 00:00:00
Facility Name:	SANCHEZ AUTOMOTIVE SERVICE
Facility Address:	26967 5TH ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923464207

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R109 **S&S MOTORS INC (DBA) S&S INLAND STAR** **RCRA NonGen / NLR** **1026490007**
WSW **26967 5TH ST** **CAL000405511**
1/8-1/4 **HIGHLAND, CA 92346**
0.225 mi.
1188 ft. **Site 3 of 3 in cluster R**

Relative: **Lower**

Actual: **1168 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20150323
Handler Name:	S&S MOTORS INC (DBA) S&S INLAND STAR
Handler Address:	26967 5TH ST
Handler City,State,Zip:	HIGHLAND, CA 92346-4207
EPA ID:	CAL000405511
Contact Name:	SCOTT POWELL
Contact Address:	26967 5TH ST
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-864-4702
Contact Fax:	844-273-6356
Contact Email:	SERVICETEAM@SANDSINLANDSTAR.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	26967 5TH ST
Mailing City,State,Zip:	HIGHLAND, CA 92346-4207
Owner Name:	SAM SWARTZ
Owner Type:	Other
Operator Name:	SCOTT POWELL
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

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S&S MOTORS INC (DBA) S&S INLAND STAR (Continued) **1026490007**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200814
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SCOTT POWELL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26967 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-864-4702
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAM SWARTZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26967 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4207
Owner/Operator Telephone:	909-864-4701
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

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S&S MOTORS INC (DBA) S&S INLAND STAR (Continued) **1026490007**

Historic Generators:
- Receive Date: 20150323
- Handler Name: S&S MOTORS INC (DBA) S&S INLAND STAR
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: Not reported
- Recognized Trader Exporter: Not reported
- Spent Lead Acid Battery Importer: Not reported
- Spent Lead Acid Battery Exporter: Not reported
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 811111
- NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

110
NNW
1/8-1/4
0.235 mi.
1243 ft.

SANDRA HALL
27164 CYPRESS ST
HIGHLAND, CA 92346

RCRA NonGen / NLR **1026045815**
CAC003052261

Relative:
Lower

Actual:
1191 ft.

RCRA NonGen / NLR:
- Date Form Received by Agency: 20200122
- Handler Name: SANDRA HALL
- Handler Address: 27164 CYPRESS ST
- Handler City,State,Zip: HIGHLAND, CA 92346
- EPA ID: CAC003052261
- Contact Name: SANDRA HALL
- Contact Address: 27164 CYPRESS ST
- Contact City,State,Zip: HIGHLAND, CA 92346
- Contact Telephone: 951-454-6612
- Contact Fax: Not reported
- Contact Email: KC@AQHIINC.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 27164 CYPRESS ST
- Mailing City,State,Zip: HIGHLAND, CA 92346
- Owner Name: SANDRA HALL

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SANDRA HALL (Continued) **1026045815**

Owner Type:	Other
Operator Name:	SANDRA HALL
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200210
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

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SANDRA HALL (Continued) **1026045815**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SANDRA HALL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27164 CYPRESS ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	951-454-6612
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SANDRA HALL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27164 CYPRESS ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	951-454-6612
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200122
Handler Name: SANDRA HALL	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

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111
ESE
1/8-1/4
0.242 mi.
1278 ft.

MASTER HALCO INC.
27474 5TH ST
HIGHLAND, CA 92346

CA San Bern. Co. Permit
CA CERS

S125495545
N/A

Relative:
Higher

Actual:
1207 ft.

San Bern. Co. Permit:

Name:	MASTER HALCO INC (HIGHLAND, CA)
Address:	27474 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0018408
Owner:	MASTER HALCO INC
Permit Number:	PT0039797
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	12/31/2021

CERS:

Name:	MASTER HALCO INC.
Address:	27474 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	560730
CERS ID:	10829929
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	560730
Site Name:	Master Halco Inc.
Violation Date:	10-28-2019
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 12/02/2019. This facility is pending activation of a hazardous materials handler permit due to the on site storage of hazardous materials above the reportable thresholds. CORRECTIVE ACTION: Pay all applicable permit fees upon receipt of invoice.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	560730
Site Name:	Master Halco Inc.
Violation Date:	10-28-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/02/2019. This facility has not submitted a hazardous materials business plan via CERS. CORRECTIVE ACTION: Submit an accurate and complete business plan into the California Environmental Reporting System (CERS).
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	560730

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MASTER HALCO INC. (Continued) **S125495545**

Site Name: Master Halco Inc.
Violation Date: 10-28-2019
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 12/02/2019. This facility does not have an established hazardous materials business plan. CORRECTIVE ACTION: Establish and implement a hazardous materials business plan via CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Nicole Barthel
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Master Halco, Inc.
Entity Title: Not reported
Affiliation Address: 3010 LBJ Freeway, Suite 800 ATTN: Rita Lafleur
Affiliation City: Dallas
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 75234
Affiliation Phone: (214) 391-3163,

Affiliation Type Desc: Operator
Entity Name: Master Halco, Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 350-4740,

Affiliation Type Desc: CUPA District

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MASTER HALCO INC. (Continued) **S125495545**

Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Donna McMillan
Entity Title:	Not reported
Affiliation Address:	110 S. Bender Ave.
Affiliation City:	Humble
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	77338
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	Transition Properties L.P. ATTN: Art Day
Entity Title:	Not reported
Affiliation Address:	P.O. Box 1010
Affiliation City:	Blue Jay
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92317
Affiliation Phone:	(909) 418-2010,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	27474 5th St.
Affiliation City:	Highland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Seiichi Narikawa
Entity Title:	CFO
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Master Halco Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

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MASTER HALCO INC. (Continued) **S125495545**

Affiliation Phone: ,

S112 **CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832** **RCRA NonGen / NLR** **1024822177**
West **7935 CENTRAL AVE** **CAL000339766**
1/8-1/4 **HIGHLANDS, CA 92346**
0.249 mi.
1313 ft. **Site 1 of 2 in cluster S**

Relative: **Lower**

Actual: **1167 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20090115
Handler Name:	CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832
Handler Address:	7935 CENTRAL AVE
Handler City,State,Zip:	HIGHLANDS, CA 92346
EPA ID:	CAL000339766
Contact Name:	JIM RICHARDSON
Contact Address:	7935 CENTRAL AVE
Contact City,State,Zip:	HIGHLANDS, CA 92346
Contact Telephone:	909-863-0284
Contact Fax:	909-863-0239
Contact Email:	MMORGAN@CITYOFHIGHLAND.ORG
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27215 BASELINE ST
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	CITY OF HIGHLAND
Owner Type:	Other
Operator Name:	JIM RICHARDSON
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No

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CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832 (Continued) **1024822177**

Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JIM RICHARDSON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7935 CENTRAL AVE
Owner/Operator City,State,Zip:	HIGHLANDS, CA 92346
Owner/Operator Telephone:	909-863-0284
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CITY OF HIGHLAND
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27215 BASELINE ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-864-6861

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CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832 (Continued) **1024822177**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20090115
Handler Name: CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 92111
NAICS Description: EXECUTIVE OFFICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

S113 **CITY OF HIGHLAND-OPERATIONS YARD** **CA CERS HAZ WASTE** **S109349300**
West **7935 CENTRAL** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS**
0.249 mi.
1313 ft. **Site 2 of 2 in cluster S**

Relative:
Lower

Actual:
1167 ft.

CERS HAZ WASTE:
Name: CITY OF HIGHLAND-OPERATIONS YARD
Address: 7935 CENTRAL
City,State,Zip: HIGHLAND, CA 92346
Site ID: 19625
CERS ID: 10053832
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: CITY OF HIGHLAND-OPERATIONS YARD
Address: 7935 CENTRAL
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0011950
Owner: CITY OF HIGHLAND
Permit Number: PT0021004
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 12/31/2021

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CITY OF HIGHLAND-OPERATIONS YARD (Continued) **S109349300**

Name: CITY OF HIGHLAND-OPERATIONS YARD
Address: 7935 CENTRAL
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0011950
Owner: CITY OF HIGHLAND
Permit Number: PT0021005
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 12/31/2021

CERS:
Name: CITY OF HIGHLAND-OPERATIONS YARD
Address: 7935 CENTRAL
City,State,Zip: HIGHLAND, CA 92346
Site ID: 19625
CERS ID: 10053832
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 19625
Site Name: CITY OF HIGHLAND-OPERATIONS YARD
Violation Date: 06-24-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 06/24/2020. The Federal hazard categories require update to the new hazard category system. Violation corrected on site.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 19625
Site Name: CITY OF HIGHLAND-OPERATIONS YARD
Violation Date: 06-24-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 06/24/2020. Last HMBP submitted via CERS occurred on 01/04/2019. Violation corrected on site; operator resubmitted the HMBP during the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department

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CITY OF HIGHLAND-OPERATIONS YARD (Continued) **S109349300**

Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-24-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-31-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-24-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Carlos Florez
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

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CITY OF HIGHLAND-OPERATIONS YARD (Continued) **S109349300**

Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: CITY OF HIGHLAND
Entity Title: Not reported
Affiliation Address: 27215 BASELINE ST
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92346
Affiliation Phone: (909) 864-8732,

Affiliation Type Desc: Parent Corporation
Entity Name: CITY OF HIGHLAND
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Jim Richardson
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 775-8366,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Environmental Contact
Entity Name: MELISSA MORGAN
Entity Title: Not reported
Affiliation Address: 27215 BASELINE ST
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92346
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 7935 CENTRAL
Affiliation City: HIGHLAND

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CITY OF HIGHLAND-OPERATIONS YARD (Continued) **S109349300**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Melissa Morgan
Entity Title:	Public Services Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

114
SW
1/4-1/2
0.298 mi.
1574 ft.

NORTON AFB LANDFILL
I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408

CA SWF/LF **S105247958**
CA CERS **N/A**

Relative:
Lower

Actual:
1171 ft.

SWF/LF (SWIS):

Name:	NORTON AFB LANDFILL
Address:	I-10/US 395 FORMER NORTON AFB
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	STATE
Facility ID:	36-AA-0312
SWIS Number:	36-AA-0312
Point of Contact:	Dawn Liang
Is Archived:	No
Is Closed Illegal Abandoned:	Yes
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Closed
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	C2
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	San Bernardino
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Unpermitted

Activity:

SWIS Number:	36-AA-0312
Site Name:	Norton AFB Landfill
Activity:	Solid Waste Disposal Site
Activity Is Archived:	No
Category:	Disposal
Activity Classification:	Solid Waste Disposal Site
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	Not reported

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NORTON AFB LANDFILL (Continued) **S105247958**

Cease Operation Type:	Not reported
Inspection Frequency:	Semi-annual
Throughput:	Not reported
Throughput Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	Not reported
Capacity Units:	Not reported
Total Acreage:	0
Disposal Acreage:	0
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported
Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Dawn Liang
Site Operational Status:	Closed
Site Regulatory Status:	Unpermitted
Site Is Archived:	No
Is Closed Illegal Abandoned:	Yes
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	C2
EPA Federal Registry ID:	Not reported
County:	San Bernardino
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	San Bernardino
Street Address:	I-10/US 395 Former Norton AFB
City:	San Bernardino
State:	CA
ZIP Code:	92408
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services

Owner:

SWIS Number:	36-AA-0312
Owner:	US Dept Of Air Force-Norton Afb
Owner Address:	Headqrtrs Co3d Combat Support Grp (Mac)
Owner City:	Norton Afb
Owner State:	CA
Owner Zip:	92409
Site Name:	Norton AFB Landfill
Site Operational Status:	Closed
Site Type:	Disposal Only
Site Regulatory Status:	Unpermitted
Latitude:	34.10517
Longitude:	-117.21563
Is Archived:	No
Started On:	Not reported
Contact Name:	Gary Underwood Col
Contact Title:	Usaf Base Commander
Contact Email:	Not reported
Contact Phone:	(909) 382-2444

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NORTON AFB LANDFILL (Continued) **S105247958**

CERS:
- Name: NORTON AFB LANDFILL
- Address: I-10/US 395 FORMER NORTON AFB
- City,State,Zip: SAN BERNARDINO, CA
- Site ID: 510537
- CERS ID: 36-AA-0312
- CERS Description: Solid Waste and Recycle Sites

Affiliation:
- Affiliation Type Desc: Legal Owner
- Entity Name: US Dept Of Air Force-Norton Afb
- Entity Title: Not reported
- Affiliation Address: Not reported
- Affiliation City: Norton Afb
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: 92409
- Affiliation Phone: 9093822444,

115
SSW
1/4-1/2
0.498 mi.
2630 ft.

FORMER SKEET RANGE NO. 2 **UXO** **1024717560**
SAN BERNARDINO, CA **N/A**

Relative:
Lower

Actual:
1174 ft.

UXO:
- DoD Component: Air Force
- Installation Name: NORTON
- Name: FORMER SKEET RANGE NO. 2
- Address: Not reported
- Address 2: Not reported
- City,State,Zip: SAN BERNARDINO, CA
- Site ID: SR401
- Site Type: Small Arms Range
- Latitude: 34.101683
- Longitude: -117.214585

116
NNW
1/2-1
0.800 mi.
4223 ft.

CYPRESS II ELEMENTARY SCHOOL **CA ENVIROSTOR** **S107736203**
BASELINE/SOUTH ALLEN STREET **CA SCH** **N/A**
SAN BERNARDINO, CA 92346

Relative:
Lower

Actual:
1179 ft.

ENVIROSTOR:
- Name: CYPRESS II ELEMENTARY SCHOOL
- Address: BASELINE/SOUTH ALLEN STREET
- City,State,Zip: SAN BERNARDINO, CA 92346
- Facility ID: 60000047
- Status: Inactive - Withdrawn
- Status Date: 06/19/2007
- Site Code: 404551
- Site Type: School Investigation
- Site Type Detailed: School
- Acres: 10
- NPL: NO

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CYPRESS II ELEMENTARY SCHOOL (Continued) **S107736203**

Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.12088
Longitude: -117.218
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: SAN BERNARDINO USD-PRPSD CYPRESS II ES
Alias Type: Alternate Name
Alias Name: 404551
Alias Type: Project Code (Site Code)
Alias Name: 60000047
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inactive Status Letter
Completed Date: 05/10/2005
Comments: DTSC has issued an Inactive Status letter due to delays by the San Bernardino City district.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/25/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/22/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/19/2007
Comments: CRU Memo Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/16/2005
Comments: Approval of phase 1 ESA.

Future Area Name: Not reported

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CYPRESS II ELEMENTARY SCHOOL (Continued) **S107736203**

Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Name:	CYPRESS II ELEMENTARY SCHOOL
Address:	BASELINE/SOUTH ALLEN STREET
City,State,Zip:	SAN BERNARDINO, CA 92346
Facility ID:	60000047
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404551
Assembly:	40
Senate:	23
Special Program Status:	Not reported
Status:	Inactive - Withdrawn
Status Date:	06/19/2007
Restricted Use:	NO
Funding:	School District
Latitude:	34.12088
Longitude:	-117.218
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	SAN BERNARDINO USD-PRPSD CYPRESS II ES
Alias Type:	Alternate Name
Alias Name:	404551
Alias Type:	Project Code (Site Code)
Alias Name:	60000047
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inactive Status Letter
Completed Date:	05/10/2005
Comments:	DTSC has issued an Inactive Status letter due to delays by the San Bernardino City district.
Completed Area Name:	PROJECT WIDE

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CYPRESS II ELEMENTARY SCHOOL (Continued) **S107736203**

Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	08/25/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	07/22/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/19/2007
Comments:	CRU Memo Completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	02/16/2005
Comments:	Approval of phase 1 ESA.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

---

117 SW 1/2-1 0.924 mi. 4880 ft. **FORMER SKEET RANGE NO. 1** **UXO** **1024717552 N/A**

SAN BERNARDINO, CA

Relative: Lower

Actual: 1148 ft.

UXO:

DoD Component:	Air Force
Installation Name:	NORTON
Name:	FORMER SKEET RANGE NO. 1
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA
Site ID:	SR400
Site Type:	Small Arms Range
Latitude:	34.097424
Longitude:	-117.221660

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Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
REDLANDS	S126984098	ALABAMA STREET ILLEGAL DISPOSAL SI	ALABAMA ST. AND PIONEER AVE.	92374	CA SWF/LF
SAN BERNARDINO COUNT	1016139697	CIMA ROAD MINE WASTE SITE	1 MIL W OF INTE. 15 OFF CIMA R		SEMS

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

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Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

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RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

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Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/01/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 9

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/22/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/08/2021
Date Data Arrived at EDR: 11/09/2021
Date Made Active in Reports: 01/28/2022
Number of Days to Update: 80

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

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LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

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Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

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CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

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SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 03/02/2022
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

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INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

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Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/15/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/14/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 11/23/2021
Number of Days to Update: 12

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

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CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Quarterly

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 12/10/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/24/2022
Date Data Arrived at EDR: 02/25/2022
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 12

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

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DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 84

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

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SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 10/26/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

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Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/13/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/03/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

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Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/18/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/19/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

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PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/04/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/28/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

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Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/26/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

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Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/03/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

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Date of Government Version: 11/02/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/14/2021
Date Data Arrived at EDR: 12/15/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 85

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/04/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 95

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/22/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 78
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/16/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

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Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 77

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/17/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 84

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

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Date of Government Version: 11/18/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 80

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

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MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/18/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 79
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 11/09/2021
Date Made Active in Reports: 01/27/2022
Number of Days to Update: 79
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 79
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/13/2021
Date Data Arrived at EDR: 12/14/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 79
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/09/2022
Next Scheduled EDR Contact: 06/26/2022
Data Release Frequency: No Update Planned

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 12/03/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

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Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 79

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

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Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/24/2022
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 79

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/26/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 12/01/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 77

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

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CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/06/2022
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 82

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 82

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 03/24/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LAKE COUNTY:

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CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 8

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 83

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 82

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/13/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: No Update Planned

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UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Annually

MERCED COUNTY:

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/24/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

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Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 01/26/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/14/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/14/2022
Date Data Arrived at EDR: 02/01/2022
Date Made Active in Reports: 04/18/2022
Number of Days to Update: 76

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/02/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 85

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 11/02/2021
Number of Days to Update: 90

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

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Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/02/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 77

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

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Date of Government Version: 02/03/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/27/2022
Number of Days to Update: 97

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 04/19/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 79

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

SAN MATEO COUNTY:

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BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 77
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

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SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

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Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 04/06/2022
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

TULARE COUNTY:

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CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/27/2021
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/27/2021
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 81

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

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UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/27/2021
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/24/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/26/2022
Date Data Arrived at EDR: 01/27/2022
Date Made Active in Reports: 04/14/2022
Number of Days to Update: 77

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/21/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/11/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 81

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/07/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Annually

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

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Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LOVETT HIGHLAND
27124-27280 MEINES ST
HIGHLAND, CA 92346

TARGET PROPERTY COORDINATES

Latitude (North):	34.110006 - 34ˆ 6’ 36.02’’
Longitude (West):	117.209428 - 117ˆ 12’ 33.94’’
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	480684.3
UTM Y (Meters):	3774178.2
Elevation:	1192 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12014994 REDLANDS, CA
Version Date:	2018
North Map:	12015975 HARRISON MOUNTAIN, CA
Version Date:	2018

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

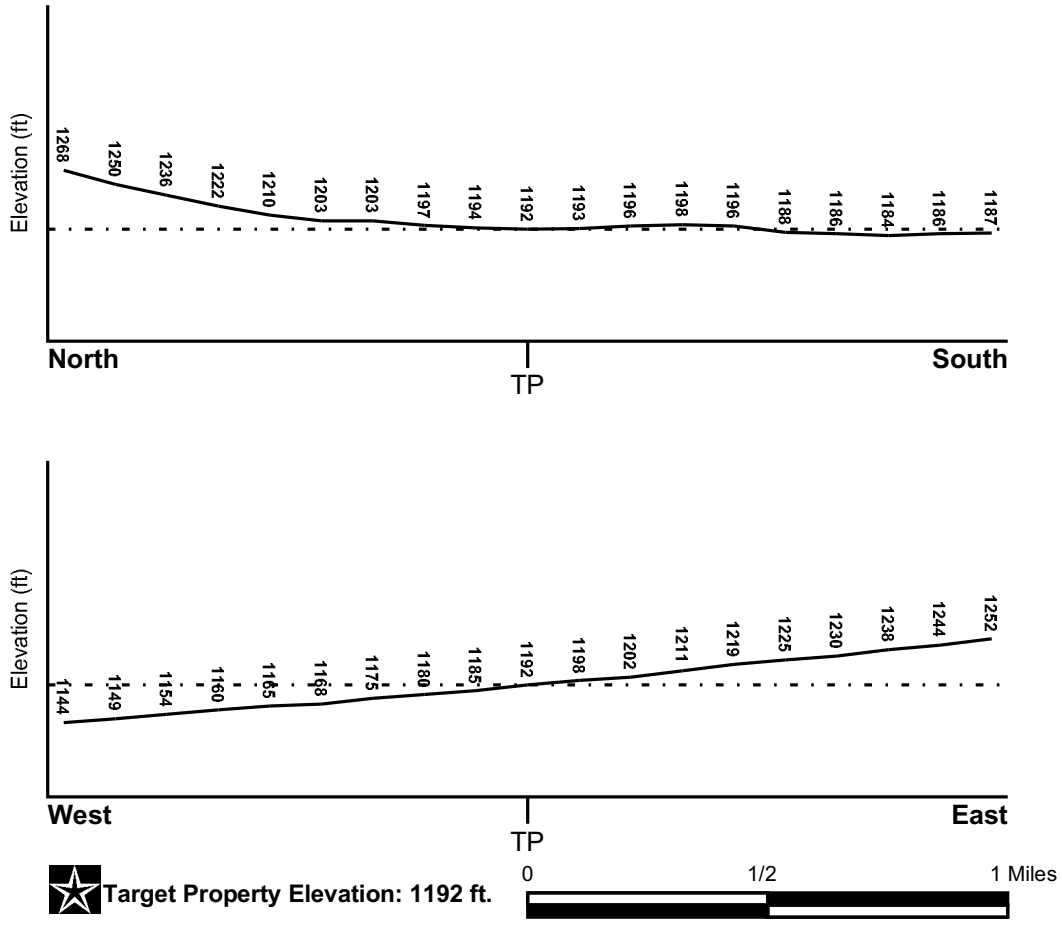
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06071C8702H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8701H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

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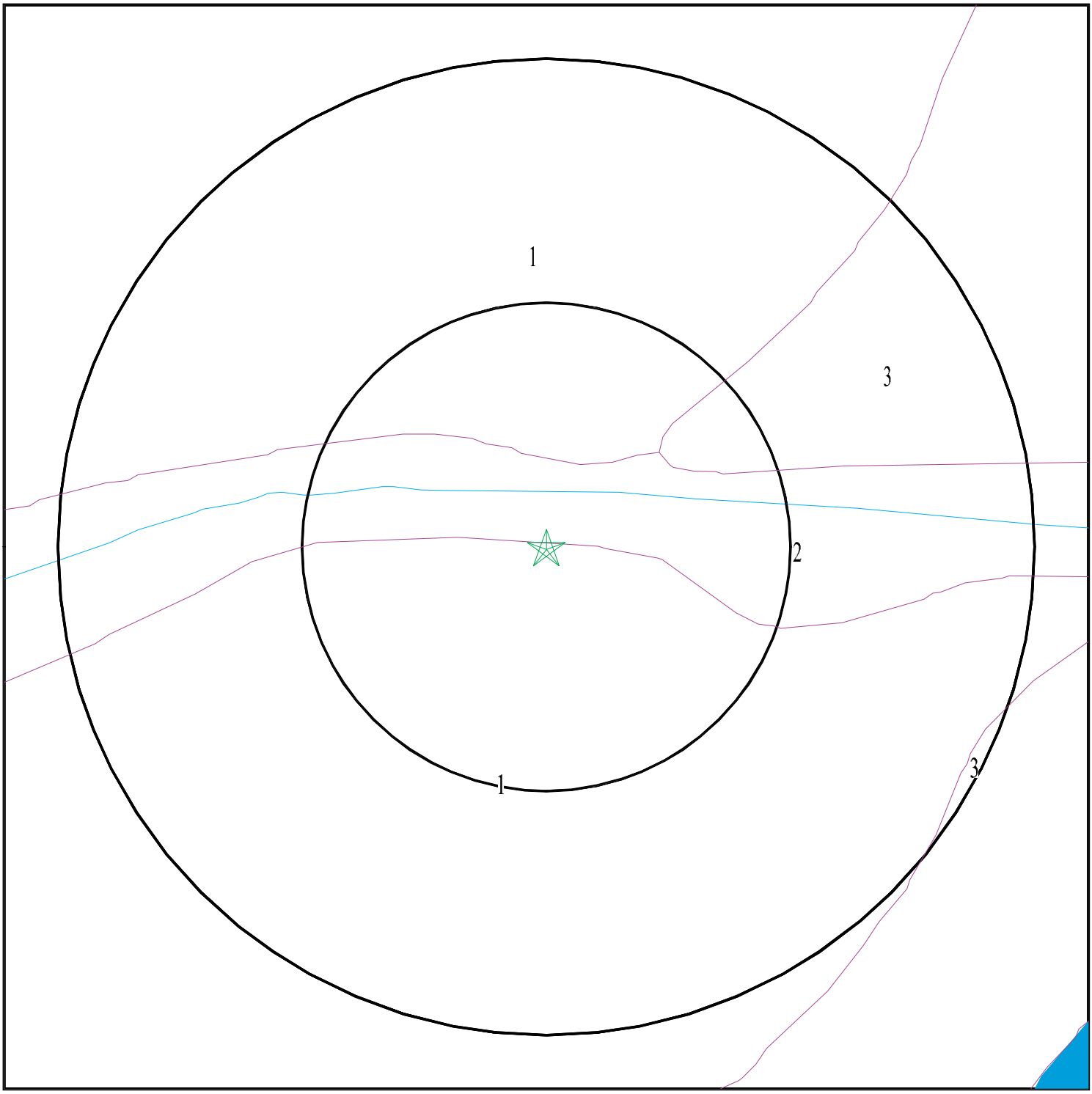
SSURGO SOIL MAP - 6958529.2s



SITE NAME:	Lovett Highland	CLIENT:	Ramboll
ADDRESS:	27124-27280 Meines St Highland CA 92346	CONTACT:	Kelly Chen
		INQUIRY #:	6958529.2s
LAT/LONG:	34.110006 / 117.209428	DATE:	April 28, 2022 9:40 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: FLUVENTS

Soil Surface Texture: gravelly sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	9 inches	29 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
3	29 inches	59 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: Soboba

Soil Surface Texture: very stony loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	very stony loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.8 Min: 6.6
2	9 inches	59 inches	very stony sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.8 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1.000 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000141222	0 - 1/8 Mile South
A2	USGS40000141215	0 - 1/8 Mile SW
B4	USGS40000141321	1/8 - 1/4 Mile North
C5	USGS40000141202	1/8 - 1/4 Mile SE
D7	USGS40000141185	1/8 - 1/4 Mile SSE
9	USGS40000141325	1/8 - 1/4 Mile NNW
E10	USGS40000141197	1/8 - 1/4 Mile SW
11	USGS40000141317	1/8 - 1/4 Mile NW
D12	USGS40000141169	1/8 - 1/4 Mile SSE
D13	USGS40000141170	1/8 - 1/4 Mile SSE
14	USGS40000141161	1/8 - 1/4 Mile South
D18	USGS40000141160	1/8 - 1/4 Mile SSE
E19	USGS40000141171	1/4 - 1/2 Mile SW
B20	USGS40000141335	1/4 - 1/2 Mile North
E21	USGS40000141172	1/4 - 1/2 Mile SW
23	USGS40000141336	1/4 - 1/2 Mile NNW
24	USGS40000141324	1/4 - 1/2 Mile NE
25	USGS40000141347	1/4 - 1/2 Mile NNE
27	USGS40000141259	1/4 - 1/2 Mile West
28	USGS40000141308	1/4 - 1/2 Mile WNW
29	USGS40000141379	1/4 - 1/2 Mile NNW
30	USGS40000141258	1/4 - 1/2 Mile East
31	USGS40000141173	1/4 - 1/2 Mile WSW
G33	USGS40000141260	1/2 - 1 Mile West
F34	USGS40000141191	1/2 - 1 Mile ESE
35	USGS40000141412	1/2 - 1 Mile NNW
G36	USGS40000141261	1/2 - 1 Mile West
H40	USGS40000141060	1/2 - 1 Mile South
51	USGS40000141421	1/2 - 1 Mile NNW
55	USGS40000141413	1/2 - 1 Mile NW
J58	USGS40000141387	1/2 - 1 Mile NE
J59	USGS40000141395	1/2 - 1 Mile NE
L60	USGS40000141241	1/2 - 1 Mile West
L61	USGS40000141242	1/2 - 1 Mile West
K63	USGS40000141040	1/2 - 1 Mile SSE
M64	USGS40000141411	1/2 - 1 Mile NE
N66	USGS40000141361	1/2 - 1 Mile WNW
67	USGS40000141344	1/2 - 1 Mile WNW
N68	USGS40000141388	1/2 - 1 Mile WNW
M69	USGS40000141394	1/2 - 1 Mile NE
71	USGS40000141488	1/2 - 1 Mile NNW

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
73	USGS40000141286	1/2 - 1 Mile West
O74	USGS40000141248	1/2 - 1 Mile East
P77	USGS40000141307	1/2 - 1 Mile East
78	USGS40000141312	1/2 - 1 Mile West
79	USGS40000141508	1/2 - 1 Mile NE
Q80	USGS40000141203	1/2 - 1 Mile West
Q81	USGS40000141204	1/2 - 1 Mile West
Q83	USGS40000141174	1/2 - 1 Mile WSW
85	USGS40000141450	1/2 - 1 Mile NW
87	USGS40000141313	1/2 - 1 Mile West
Q88	USGS40000141216	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	CADWR0000036115	1/8 - 1/4 Mile SSW
C6	CAUSGSN00011117	1/8 - 1/4 Mile SE
D8	CAUSGSN00016039	1/8 - 1/4 Mile SSE
D15	CAUSGSN00004484	1/8 - 1/4 Mile SSE
D16	CAUSGSN00016638	1/8 - 1/4 Mile SSE
D17	CADDW0000010936	1/8 - 1/4 Mile SSE
22	CADWR0000003800	1/4 - 1/2 Mile WNW
26	798	1/4 - 1/2 Mile NNE
F32	CADWR0000037308	1/2 - 1 Mile ESE
37	797	1/2 - 1 Mile North
H38	CADWR9000006810	1/2 - 1 Mile South
H39	CADDW0000006489	1/2 - 1 Mile SSE
H41	CAUSGSN00005706	1/2 - 1 Mile South
H42	CADWR0000030199	1/2 - 1 Mile SSE
I43	CADDW0000010935	1/2 - 1 Mile NW
I44	CADDW0000006680	1/2 - 1 Mile NW
I45	CADDW0000014380	1/2 - 1 Mile NW
I46	803	1/2 - 1 Mile NW
I47	802	1/2 - 1 Mile NW
I48	804	1/2 - 1 Mile NW
I49	807	1/2 - 1 Mile NW
I50	805	1/2 - 1 Mile NW
J52	799	1/2 - 1 Mile NE
J53	800	1/2 - 1 Mile NE
K54	CADWR0000035024	1/2 - 1 Mile SSE
J56	CADDW0000013575	1/2 - 1 Mile NE

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
J57	CAUSGSN00000206	1/2 - 1 Mile NE
J62	CADWR9000006883	1/2 - 1 Mile NE
M65	CAUSGSN00002892	1/2 - 1 Mile NE
M70	CAUSGSN00016275	1/2 - 1 Mile NE
72	801	1/2 - 1 Mile SE
O75	CAUSGSN00010473	1/2 - 1 Mile East
P76	CADWR9000006863	1/2 - 1 Mile East
P82	CADWR0000018191	1/2 - 1 Mile East
84	CADWR0000024907	1/2 - 1 Mile NW
86	CADDW0000007406	1/2 - 1 Mile WSW

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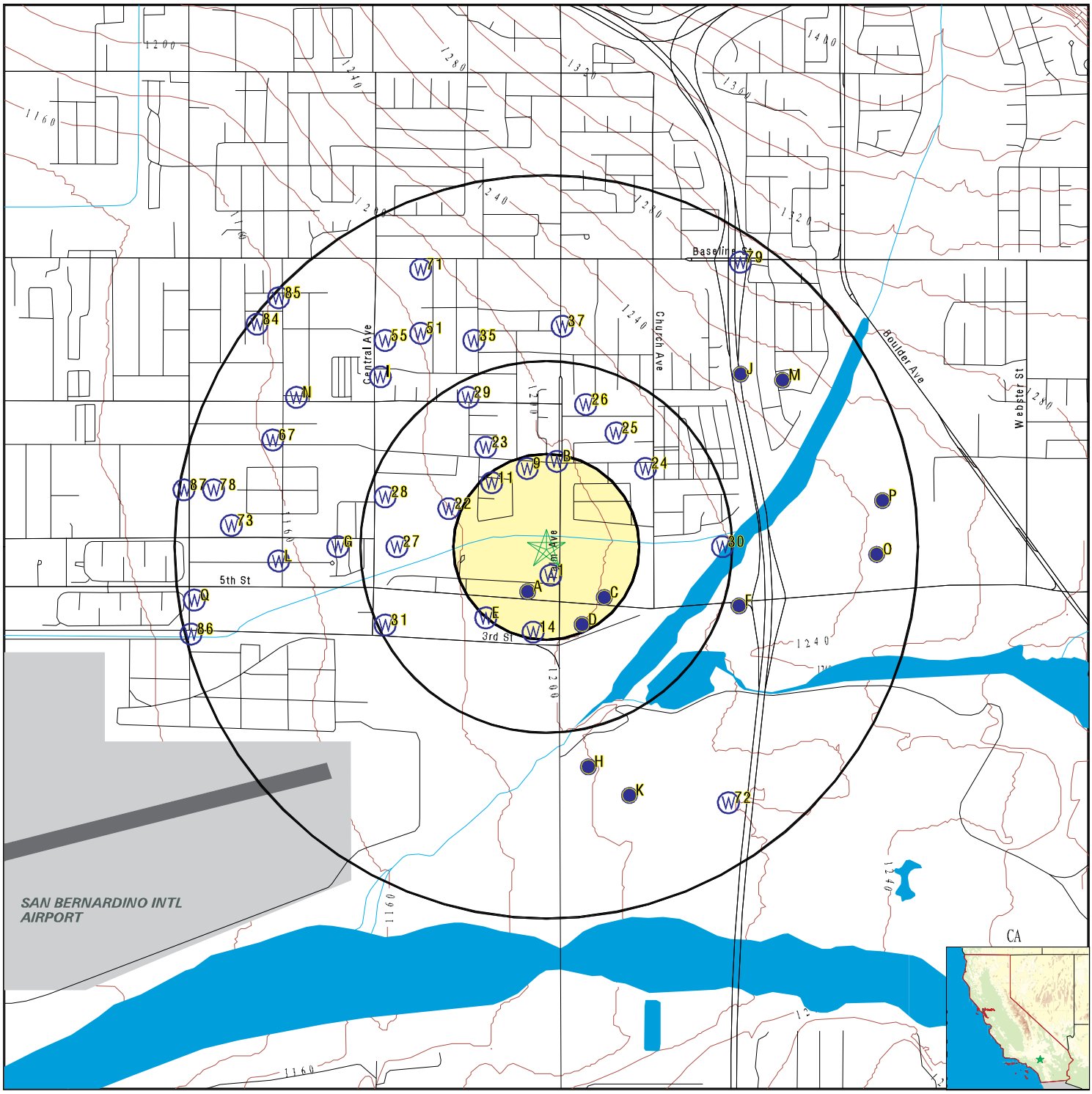
PHYSICAL SETTING SOURCE MAP - 6958529.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Lovett Highland	CLIENT:	Ramboll
ADDRESS:	27124-27280 Meines St Highland CA 92346	CONTACT:	Kelly Chen
		INQUIRY #:	6958529.2s
LAT/LONG:	34.110006 / 117.209428	DATE:	April 28, 2022 9:40 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
South
0 - 1/8 Mile
Higher | **FED USGS** | **USGS40000141222**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	200
Well Hole Depth Units:	ft		

A2
SW
0 - 1/8 Mile
Lower | **FED USGS** | **USGS40000141215**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R006S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19500101	Well Depth:	104
Well Depth Units:	ft	Well Hole Depth:	114
Well Hole Depth Units:	ft		

A3
SSW
1/8 - 1/4 Mile
Higher | **CA WELLS** | **CADWR0000036115**

Well ID:	01S03W05R002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S03W05R002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S03W05R002S&store_num=		
GeoTracker Data:	Not Reported		

B4
North
1/8 - 1/4 Mile
Higher | **FED USGS** | **USGS40000141321**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05J001S	Type:	Well

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Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19090101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	186
Well Hole Depth Units:	ft		

C5
SE
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000141202**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04N001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540101	Well Depth:	245
Well Depth Units:	ft	Well Hole Depth:	246
Well Hole Depth Units:	ft		

C6
SE
1/8 - 1/4 Mile
Higher

CA WELLS **CAUSGSN00011117**

Well ID:	USGS-340629117122101	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340629117122101	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340629117122101&store_num=		
GeoTracker Data:	Not Reported		

D7
SSE
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000141185**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04N000S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	750
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D8
SSE
1/8 - 1/4 Mile
Higher

CA WELLS **CAUSGSN00016039**

Well ID:	USGS-340626117122501	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340626117122501	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340626117122501&store_num=		
GeoTracker Data:	Not Reported		

9
NNW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000141325**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05J005S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540101	Well Depth:	200
Well Depth Units:	ft	Well Hole Depth:	214
Well Hole Depth Units:	ft		

E10
SW
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000141197**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R005S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19510101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	396
Well Hole Depth Units:	ft		

11
NW
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000141317**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05J003S	Type:	Well

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Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19530101	Well Depth:	221
Well Depth Units:	ft	Well Hole Depth:	221
Well Hole Depth Units:	ft		

D12
SSE **FED USGS** **USGS40000141169**
1/8 - 1/4 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	HOLE-26 LYSIMETER AT 60		
Type:	Well: Test hole not completed as a well		
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D13
SSE **FED USGS** **USGS40000141170**
1/8 - 1/4 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	HOLE-26 LYSIMETER AT 90		
Type:	Well: Test hole not completed as a well		
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

14
South **FED USGS** **USGS40000141161**
1/8 - 1/4 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R007S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported

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Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19550101	Well Depth:	164
Well Depth Units:	ft	Well Hole Depth:	164
Well Hole Depth Units:	ft		

D15
SSE **CA WELLS** **CAUSGSN00004484**
1/8 - 1/4 Mile
Higher

Well ID:	USGS-340625117122502	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340625117122502	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340625117122502&store_num=		
GeoTracker Data:	Not Reported		

D16
SSE **CA WELLS** **CAUSGSN00016638**
1/8 - 1/4 Mile
Higher

Well ID:	USGS-340625117122501	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340625117122501	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340625117122501&store_num=		
GeoTracker Data:	Not Reported		

D17
SSE **CA WELLS** **CADDW0000010936**
1/8 - 1/4 Mile
Higher

Well ID:	3610064-025	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 040A - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610064-025&store_num=		
GeoTracker Data:	Not Reported		

D18
SSE **FED USGS** **USGS40000141160**
1/8 - 1/4 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04N003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

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Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	835
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

E19
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000141171**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19510101	Well Depth:	176
Well Depth Units:	ft	Well Hole Depth:	176
Well Hole Depth Units:	ft		

B20
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000141335**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05H001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19490101	Well Depth:	190
Well Depth Units:	ft	Well Hole Depth:	196
Well Hole Depth Units:	ft		

E21
SW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000141172**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19500101	Well Depth:	154
Well Depth Units:	ft	Well Hole Depth:	154
Well Hole Depth Units:	ft		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

22
WNW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000003800**

Well ID:	01S03W05K002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S03W05K002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S03W05K002S&store_num=		
GeoTracker Data:	Not Reported		

23
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000141336**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05H002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	55
Well Depth Units:	ft	Well Hole Depth:	55
Well Hole Depth Units:	ft		

24
NE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000141324**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04M001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	170
Well Hole Depth Units:	ft		

25
NNE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000141347**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04E001S	Type:	Well

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Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19270101	Well Depth:	179
Well Depth Units:	ft	Well Hole Depth:	182
Well Hole Depth Units:	ft		

26
NNE
1/4 - 1/2 Mile
Higher

CA WELLS 798

Seq:	798	Prim sta c:	01S/03W-04E02 S
Frds no:	3601051001	County:	36
District:	66	User id:	36C
System no:	3601051	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340656.0	Longitude:	1171224.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3601051	System nam:	Sunwest Maerials (Alabama System)
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	25	Connection:	1
Area serve:	Not Reported		

Sample date:	12-MAR-18	Finding:	60.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	12-MAR-18	Finding:	2.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-MAR-18	Finding:	44.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	12-MAR-18	Finding:	5.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-MAR-18	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-MAR-18	Finding:	3.2
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	23-JAN-18	Finding:	54.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

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Sample date:	23-JAN-18	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JAN-18	Finding:	3.
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JAN-18	Finding:	5.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JAN-18	Finding:	49.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	23-JAN-18	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-DEC-17	Finding:	42.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	16-DEC-17	Finding:	2.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-DEC-17	Finding:	44.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-DEC-17	Finding:	5.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-NOV-17	Finding:	38.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	08-NOV-17	Finding:	4.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-NOV-17	Finding:	45.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-NOV-17	Finding:	2.8
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-NOV-17	Finding:	1.9
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-NOV-17	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-OCT-17	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L

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Dlr:	0.		
Sample date:	02-OCT-17	Finding:	0.45
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-OCT-17	Finding:	0.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-OCT-17	Finding:	0.61
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	40.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-SEP-17	Finding:	5.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	48.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-SEP-17	Finding:	2.8
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUN-17	Finding:	2.6
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUN-17	Finding:	40.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	30-JUN-17	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JUN-17	Finding:	2.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-MAR-17	Finding:	32.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-MAR-17	Finding:	4.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

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Sample date:	13-MAR-17	Finding:	37.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-MAR-17	Finding:	2.6
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAR-17	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAR-17	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	4.65
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	51.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-OCT-16	Finding:	1.07
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-AUG-16	Finding:	3.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-JUL-15	Finding:	3.03
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JUL-15	Finding:	14.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-JUL-15	Finding:	2.42
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JUL-15	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JUL-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-APR-15	Finding:	2.65
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-APR-15	Finding:	19.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-APR-15	Finding:	2.75
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L

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Dlr:	0.		
Sample date:	14-APR-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-APR-15	Finding:	0.86
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JAN-15	Finding:	21.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-JAN-15	Finding:	2.73
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JAN-15	Finding:	0.908
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JAN-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JAN-15	Finding:	2.75
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-OCT-14	Finding:	1.02
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-OCT-14	Finding:	4.32
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-OCT-14	Finding:	33.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-OCT-14	Finding:	2.72
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-OCT-14	Finding:	0.481
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-NOV-13	Finding:	3.03
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-NOV-13	Finding:	30.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-NOV-13	Finding:	0.363
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		

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Sample date:	12-NOV-13	Finding:	1.02
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-NOV-13	Finding:	3.6
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-13	Finding:	0.363
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-13	Finding:	3.54
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-13	Finding:	30.3
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-AUG-13	Finding:	3.38
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-13	Finding:	1.17
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAY-13	Finding:	2.54
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAY-13	Finding:	23.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-MAY-13	Finding:	2.56
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAY-13	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-APR-13	Finding:	2.42
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	2.81
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	31-JAN-13	Finding:	1.98
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	30.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

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Dlr:	1.		
Sample date:	31-JAN-13	Finding:	31.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	31-JAN-13	Finding:	3.12
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

27
West
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000141259**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05Q006S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19520101	Well Depth:	110
Well Depth Units:	ft	Well Hole Depth:	120
Well Hole Depth Units:	ft		

28
WNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000141308**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05K001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19520101	Well Depth:	182
Well Depth Units:	ft	Well Hole Depth:	200
Well Hole Depth Units:	ft		

29
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000141379**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05H003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

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Construction Date:	19000101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	130
Well Hole Depth Units:	ft		

30
East
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000141258**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04P001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19420101	Well Depth:	209
Well Depth Units:	ft	Well Hole Depth:	209
Well Hole Depth Units:	ft		

31
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000141173**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05Q003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540101	Well Depth:	163
Well Depth Units:	ft	Well Hole Depth:	163
Well Hole Depth Units:	ft		

F32
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000037308**

Well ID:	01S03W04P002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S03W04P002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S03W04P002S&store_num=		
GeoTracker Data:	Not Reported		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
FED USGS	USGS40000141260

G33
West
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05P003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19550101	Well Depth:	205
Well Depth Units:	ft	Well Hole Depth:	208
Well Hole Depth Units:	ft		

Database	EDR ID Number
FED USGS	USGS40000141191

F34
ESE
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04Q003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19480101	Well Depth:	198
Well Depth Units:	ft	Well Hole Depth:	204
Well Hole Depth Units:	ft		

Database	EDR ID Number
FED USGS	USGS40000141412

35
NNW
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05A001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	167
Well Hole Depth Units:	ft		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
FED USGS	**USGS40000141261**

G36
West
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05P001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19510101	Well Depth:	228
Well Depth Units:	ft	Well Hole Depth:	228
Well Hole Depth Units:	ft		

37
North
1/2 - 1 Mile
Higher

CA WELLS **797**

Seq:	797	Prim sta c:	01S/03W-04D03 S
Frds no:	3601060001	County:	36
District:	66	User id:	36C
System no:	3601060	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340707.0	Longitude:	1171228.0
Precision:	2	Status:	AR
Comment 1:	8353 N. ALABAMA ST.	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3601060	System nam:	Robertsons Redi Mix
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		
Sample date:	18-JUL-17	Finding:	3.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	22.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	18-JUL-17	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	7.8

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Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	240.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	5.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-JUL-17	Finding:	260.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	80.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	0.15
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	18-JUL-17	Finding:	600.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	6.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-MAY-17	Finding:	71.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	30.
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	64.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	23-MAY-17	Finding:	5.31
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	67.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

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Sample date:	23-MAY-17	Finding:	5.94
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	1.26
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	570.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	220.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	1.52
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	4.08
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	44.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-MAY-17	Finding:	5.54
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	66.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-MAY-17	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	7.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-APR-17	Finding:	30.
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

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Dlr:	0.		
Sample date:	06-APR-17	Finding:	160.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	8.8e-002
Chemical:	PHOSPHATE, ORTHO	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	470.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-APR-17	Finding:	60.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	93.7
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	28-FEB-17	Finding:	52.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	28-FEB-17	Finding:	5.3
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	1.41
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	6.31
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-16	Finding:	1.17
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-16	Finding:	4.43
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-16	Finding:	47.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-DEC-16	Finding:	4.79
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		

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Sample date:	08-DEC-16	Finding:	37.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	08-DEC-16	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-DEC-16	Finding:	3.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-DEC-16	Finding:	45.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	22-JUL-16	Finding:	48.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	22-JUL-16	Finding:	4.48
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUL-16	Finding:	42.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-JUL-16	Finding:	4.06
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUL-16	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUL-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-JUN-16	Finding:	3.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-APR-16	Finding:	4.86
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-APR-16	Finding:	1.05
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-APR-16	Finding:	57.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	28-APR-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-APR-16	Finding:	3.29
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L

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Dlr:	0.		
Sample date:	28-APR-16	Finding:	35.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JAN-16	Finding:	1.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JAN-16	Finding:	0.481
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JAN-16	Finding:	3.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JAN-16	Finding:	21.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JAN-16	Finding:	4.11
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	2.61
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	1.98
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	0.897
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	8.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-SEP-15	Finding:	1.08
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-SEP-15	Finding:	1.66
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-SEP-15	Finding:	8.37
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-SEP-15	Finding:	1.97
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

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Sample date:	14-SEP-15	Finding:	5.44
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-SEP-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAR-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAR-15	Finding:	0.977
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAR-15	Finding:	27.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	18-MAR-15	Finding:	2.91
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAR-15	Finding:	1.2
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	18-MAR-15	Finding:	3.26
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JUN-14	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JUN-14	Finding:	0.528
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JUN-14	Finding:	0.969
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JUN-14	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-14	Finding:	3.51
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-14	Finding:	28.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	24-JAN-14	Finding:	3.4
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-14	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

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Dlr:	0.		
Sample date:	24-JAN-14	Finding:	0.401
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-OCT-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JAN-13	Finding:	4.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-OCT-12	Finding:	3.58
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-OCT-12	Finding:	40.54
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-OCT-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-12	Finding:	3.58
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-12	Finding:	41.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	25-APR-12	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-APR-12	Finding:	2.89
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-APR-12	Finding:	1.94
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

H38
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006810**

State Well #:	01S03W09E002S	Station ID:	6584
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H39
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000006489**

Well ID:	3601051-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3601051-001&store_num=		
GeoTracker Data:	Not Reported		

H40
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000141060**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W09E002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540908	Well Depth:	401
Well Depth Units:	ft	Well Hole Depth:	401
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	249	Level reading date:	2004-10-22
Feet below surface:	199.28	Feet to sea level:	Not Reported
Note:	The site had been pumped recently.		
Level reading date:	2004-04-20	Feet below surface:	187.41
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	2004-04-20	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2003-10-22	Feet below surface:	187.28
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	2003-04-23	Feet below surface:	176.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-10-29	Feet below surface:	176.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-10-28	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-04-08	Feet below surface:	161.73
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	2001-10-23	Feet below surface:	158.00
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.

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Level reading date:	2001-04-18	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2000-10-23	Feet below surface:	145.34
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1999-10-18	Feet below surface:	127.29
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1999-04-14	Feet below surface:	114.38
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1998-10-19	Feet below surface:	116.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-14	Feet below surface:	119.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-10-27	Feet below surface:	138.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-04-14	Feet below surface:	127.03
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1996-10-07	Feet below surface:	136.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-22	Feet below surface:	122.14
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1995-10-24	Feet below surface:	131.68
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1995-04-19	Feet below surface:	123.63
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1994-10-26	Feet below surface:	151.77
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1994-04-20	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1993-10-19	Feet below surface:	143.81
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1993-04-12	Feet below surface:	135.92
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1992-10-31	Feet below surface:	164.14
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1992-10-29	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1992-06-12	Feet below surface:	154.34
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

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Level reading date:	1991-11-27	Feet below surface:	159.95
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1991-06-17	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1991-04-24	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1990-12-03	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1990-10-30	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1990-06-25	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1989-11-28	Feet below surface:	130.21
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1989-10-26	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1989-09-21	Feet below surface:	127.20
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1989-04-26	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1988-11-23	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1988-10-13	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1988-06-30	Feet below surface:	104.75
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1987-12-08	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1987-06-16	Feet below surface:	88.77
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1987-04-01	Feet below surface:	106.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-01-02	Feet below surface:	105.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-10-01	Feet below surface:	98.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-09-01	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-08-01	Feet below surface:	106.4

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Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-07-01	Feet below surface:	103.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-06-19	Feet below surface:	76.86
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1986-06-01	Feet below surface:	98.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-05-01	Feet below surface:	74.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-04-01	Feet below surface:	72.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-01	Feet below surface:	95.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-01	Feet below surface:	70.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-01-14	Feet below surface:	71.74
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1986-01-02	Feet below surface:	96.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-06	Feet below surface:	73.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-01	Feet below surface:	73.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-10-25	Feet below surface:	87.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-10-01	Feet below surface:	87.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-09-30	Feet below surface:	87.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-09-01	Feet below surface:	87.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-30	Feet below surface:	91.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-08-01	Feet below surface:	91.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-07-30	Feet below surface:	89.2
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-07-01	Feet below surface:	89.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-06-25	Feet below surface:	83.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.

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Level reading date:	1985-06-01	Feet below surface:	83.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-30	Feet below surface:	84.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-01	Feet below surface:	84.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-04-22	Feet below surface:	82.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-03-22	Feet below surface:	71.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-02-26	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-12-20	Feet below surface:	67.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-11-27	Feet below surface:	70.4
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-10-23	Feet below surface:	72.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-09-13	Feet below surface:	83.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-08-27	Feet below surface:	70.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-07-11	Feet below surface:	71.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-06-14	Feet below surface:	59.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-04-19	Feet below surface:	56.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-22	Feet below surface:	56.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-21	Feet below surface:	56.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-01-23	Feet below surface:	55.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-12-27	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1983-11-30	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1983-10-31	Feet below surface:	51.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-18	Feet below surface:	92.0
Feet to sea level:	Not Reported	Note:	Not Reported

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Level reading date:	1981-10-16	Feet below surface:	97.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-18	Feet below surface:	91.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-13	Feet below surface:	93.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-23	Feet below surface:	91.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-11	Feet below surface:	89.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-18	Feet below surface:	91.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-14	Feet below surface:	117.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-07-23	Feet below surface:	118.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-06-13	Feet below surface:	115.3
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-05-15	Feet below surface:	88.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-16	Feet below surface:	89.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-03-14	Feet below surface:	89.6
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-01-18	Feet below surface:	128.4
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-12-15	Feet below surface:	135.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-11-19	Feet below surface:	139.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-10-11	Feet below surface:	139.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-09-13	Feet below surface:	137.6
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-08-09	Feet below surface:	135.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-07-13	Feet below surface:	140.3
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-06-13	Feet below surface:	151.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-05-18	Feet below surface:	149.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.

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Level reading date:	1979-04-12	Feet below surface:	145.8
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-03-15	Feet below surface:	148.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-02-20	Feet below surface:	149.7
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-01-18	Feet below surface:	152.8
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1978-12-14	Feet below surface:	151.2
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1978-11-16	Feet below surface:	157.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1978-10-12	Feet below surface:	155.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1978-09-14	Feet below surface:	154.4
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1978-08-11	Feet below surface:	152.6
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-07-07	Feet below surface:	182.6
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-06-08	Feet below surface:	189.2
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-05-11	Feet below surface:	183.2
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-04-14	Feet below surface:	165.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-03-10	Feet below surface:	182.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-02-10	Feet below surface:	182.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-01-19	Feet below surface:	155.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-17	Feet below surface:	187.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1976-11-19	Feet below surface:	185.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-16	Feet below surface:	165.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-14	Feet below surface:	164.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-28	Feet below surface:	163.8
Feet to sea level:	Not Reported	Note:	Not Reported

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Level reading date:	1976-05-20	Feet below surface:	163.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-15	Feet below surface:	163.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-05	Feet below surface:	162.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-29	Feet below surface:	163.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-23	Feet below surface:	162.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-16	Feet below surface:	162.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-10	Feet below surface:	162.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-27	Feet below surface:	162.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-20	Feet below surface:	162.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-13	Feet below surface:	162.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-14	Feet below surface:	169.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-17	Feet below surface:	164.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-20	Feet below surface:	165.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-01-09	Feet below surface:	155.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-01-23	Feet below surface:	144.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-11-27	Feet below surface:	152.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-11	Feet below surface:	148.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-07-30	Feet below surface:	145.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-06-17	Feet below surface:	141.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-05-16	Feet below surface:	139.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-25	Feet below surface:	137.1
Feet to sea level:	Not Reported	Note:	Not Reported

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Level reading date:	1970-03-24	Feet below surface:	159.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1970-02-14	Feet below surface:	139.1
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		
Level reading date:	1969-08-12	Feet below surface:	129.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-07-02	Feet below surface:	121.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-06-16	Feet below surface:	146.7
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1969-04-26	Feet below surface:	124.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-11	Feet below surface:	155.8
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1969-04-01	Feet below surface:	146.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-03-06	Feet below surface:	190.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-29	Feet below surface:	196.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-08-21	Feet below surface:	192.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1968-07-26	Feet below surface:	190.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-06-19	Feet below surface:	202.7
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-07-27	Feet below surface:	199.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-02	Feet below surface:	207.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-01	Feet below surface:	217.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-29	Feet below surface:	216.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-08-03	Feet below surface:	213.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-06-28	Feet below surface:	211.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-14	Feet below surface:	208.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-24	Feet below surface:	228.9

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Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-27	Feet below surface:	231.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-29	Feet below surface:	214.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-27	Feet below surface:	231.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-08-24	Feet below surface:	220.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-07-19	Feet below surface:	219.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-01	Feet below surface:	219.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-02	Feet below surface:	209.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-22	Feet below surface:	209.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-24	Feet below surface:	225.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-27	Feet below surface:	209.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-20	Feet below surface:	212.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-28	Feet below surface:	210.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-24	Feet below surface:	208.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-17	Feet below surface:	206.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-06-27	Feet below surface:	192.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-05-27	Feet below surface:	200.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-06	Feet below surface:	199.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-27	Feet below surface:	199.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-25	Feet below surface:	194.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-26	Feet below surface:	195.0
Feet to sea level:	Not Reported	Note:	Not Reported

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Level reading date:	1963-07-30	Feet below surface:	189.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-06-26	Feet below surface:	188.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-29	Feet below surface:	188.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-04-29	Feet below surface:	185.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-19	Feet below surface:	192.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-28	Feet below surface:	189.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-28	Feet below surface:	183.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10-26	Feet below surface:	183.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-08	Feet below surface:	179.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-07-25	Feet below surface:	177.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-28	Feet below surface:	178.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-02	Feet below surface:	171.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-28	Feet below surface:	169.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-10	Feet below surface:	172.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-13	Feet below surface:	160.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06-16	Feet below surface:	160.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-23	Feet below surface:	159.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-17	Feet below surface:	157.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-09	Feet below surface:	154.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-17	Feet below surface:	153.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-27	Feet below surface:	153.7
Feet to sea level:	Not Reported	Note:	Not Reported

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Level reading date:	1960-11-30	Feet below surface:	155.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-07-05	Feet below surface:	154.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-24	Feet below surface:	129.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-13	Feet below surface:	141.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-07	Feet below surface:	155.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-17	Feet below surface:	147.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-05	Feet below surface:	137.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-11	Feet below surface:	135.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-14	Feet below surface:	130.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-16	Feet below surface:	130.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-13	Feet below surface:	129.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-28	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-14	Feet below surface:	135.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-08	Feet below surface:	121.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-10	Feet below surface:	110.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-07	Feet below surface:	107.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-27	Feet below surface:	131.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-30	Feet below surface:	131.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-28	Feet below surface:	131.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-28	Feet below surface:	131.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-18	Feet below surface:	130.4
Feet to sea level:	Not Reported	Note:	Not Reported

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Level reading date:	1956-06-06	Feet below surface:	129.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-05-03	Feet below surface:	128.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-27	Feet below surface:	127.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-02-24	Feet below surface:	128.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-16	Feet below surface:	130.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-12-03	Feet below surface:	126.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-07	Feet below surface:	133.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-03	Feet below surface:	131.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-06	Feet below surface:	129.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-02	Feet below surface:	126.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-07-05	Feet below surface:	138.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-06	Feet below surface:	128.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-02	Feet below surface:	113.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-28	Feet below surface:	116.9
Feet to sea level:	Not Reported	Note:	Not Reported

H41
South
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00005706**

Well ID:	USGS-340605117122401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340605117122401	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340605117122401&store_num=		
GeoTracker Data:	Not Reported		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H42
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000030199**

Well ID:	01S03W09E002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S03W09E002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S03W09E002S&store_num=		
GeoTracker Data:	Not Reported		

I43
NW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000010935**

Well ID:	3610064-008	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	CULL WELL 04 (WELL 132-4) - DESTROYED		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610064-008&store_num=		
GeoTracker Data:	Not Reported		

I44
NW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000006680**

Well ID:	3610064-005	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	CULL WELL 01 (WELL 132-1) - ABANDONED		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610064-005&store_num=		
GeoTracker Data:	Not Reported		

I45
NW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000014380**

Well ID:	3610064-007	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	CULL WELL 03 (WELL 132-3) - DESTROYED		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610064-007&store_num=		
GeoTracker Data:	Not Reported		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I46
NW
1/2 - 1 Mile
Lower

CA WELLS **803**

Seq:	803	Prim sta c:	01S/03W-05D04 S
Frds no:	3610064006	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	CULL WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171300.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

I47
NW
1/2 - 1 Mile
Lower

CA WELLS **802**

Seq:	802	Prim sta c:	01S/03W-05D01 S
Frds no:	3610064005	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	CULL WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171300.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

I48
NW
1/2 - 1 Mile
Lower

CA WELLS **804**

Seq:	804	Prim sta c:	01S/03W-05D07 S
Frds no:	3610064008	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	CULL WELL 04	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY

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Latitude:	340700.0	Longitude:	1171300.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

I49
NW
1/2 - 1 Mile
Lower

CA WELLS 807

Seq:	807	Prim sta c:	01S/03W-06H04 S
Frds no:	3610064016	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	WELL 009A - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171300.0
Precision:	8	Status:	IU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		
Sample date:	22-FEB-18	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-FEB-18	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-FEB-18	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-FEB-18	Finding:	18.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-FEB-18	Finding:	1.9
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

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Sample date:	24-JAN-18	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	1.8
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	16.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-DEC-17	Finding:	2.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-DEC-17	Finding:	3.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-DEC-17	Finding:	17.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-OCT-17	Finding:	5.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-AUG-17	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-17	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-17	Finding:	2.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-17	Finding:	1.9
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-17	Finding:	15.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JUL-17	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	2.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

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Dlr:	0.		
Sample date:	25-JUL-17	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	2.1
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	23.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JUL-17	Finding:	6.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JUN-17	Finding:	6.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-APR-17	Finding:	6.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-17	Finding:	3.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-OCT-16	Finding:	4.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-16	Finding:	9.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	54.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	21.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	27.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	23-AUG-16	Finding:	0.23
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	23-AUG-16	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

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Sample date:	23-AUG-16	Finding:	170.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	5.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUL-16	Finding:	5.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUN-16	Finding:	400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	5.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUN-16	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	47.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	8.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	18.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	2.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	28.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-JUN-16	Finding:	0.24
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L

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Dlr:	0.1		
Sample date:	07-JUN-16	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	5.4
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-APR-16	Finding:	5.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JAN-16	Finding:	4.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-OCT-15	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-AUG-15	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JUL-15	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-APR-15	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-JAN-15	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-AUG-14	Finding:	170.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	52.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	19.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	8.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

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Sample date:	26-AUG-14	Finding:	270.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	0.24
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	26-AUG-14	Finding:	29.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-JUL-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUL-14	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUL-14	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUL-14	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUL-14	Finding:	18.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-JUL-14	Finding:	1.7
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-JAN-14	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-13	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUL-13	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUN-13	Finding:	5100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JUN-13	Finding:	11.41
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	0.21
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

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Dlr:	0.		
Sample date:	25-JUN-13	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	4.7
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	25-JUN-13	Finding:	0.22
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	25-JUN-13	Finding:	28.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	25-JUN-13	Finding:	18.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	18.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	8.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	51.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	160.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	160.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	7.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	410.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

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Sample date:	25-JUN-13	Finding:	18.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-APR-13	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-OCT-12	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-12	Finding:	28.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-JUN-12	Finding:	20.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	9.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	56.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-12	Finding:	21.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-JAN-12	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

I50
NW
1/2 - 1 Mile
Lower

CA WELLS **805**

Seq:	805	Prim sta c:	01S/03W-05D08 S
Frds no:	3610064007	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G

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Source nam:	CULL WELL 03 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171300.0
Precision:	8	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

51
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141421**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05B006S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19530101	Well Depth:	180
Well Depth Units:	ft	Well Hole Depth:	194
Well Hole Depth Units:	ft		

J52
NE
1/2 - 1 Mile
Higher

CA WELLS **799**

Seq:	799	Prim sta c:	01S/03W-04G02 S
Frds no:	3610064009	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	DUNKIRK WELL 01 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171200.0
Precision:	8	Status:	IT
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J53
NE
1/2 - 1 Mile
Higher

CA WELLS **800**

Seq:	800	Prim sta c:	01S/03W-04G03 S
Frds no:	3610064010	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	DUNKIRK WELL 02 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171200.0
Precision:	8	Status:	IT
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

K54
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000035024**

Well ID:	01S03W09E001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S03W09E001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S03W09E001S&store_num=		
GeoTracker Data:	Not Reported		

55
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141413**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05B001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19300101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	123
Well Hole Depth Units:	ft		

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Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J56
NE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000013575**

Well ID:	3610064-009	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	DUNKIRK WELL 01 - INACTIVE		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610064-009&store_num=		
GeoTracker Data:	Not Reported		

J57
NE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00000206**

Well ID:	USGS-340701117115801	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340701117115801	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340701117115801&store_num=		
GeoTracker Data:	Not Reported		

J58
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141387**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04G002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	406
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

J59
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141395**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04G003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

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Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	391
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

L60
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141241**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19500101	Well Depth:	160
Well Depth Units:	ft	Well Hole Depth:	165
Well Hole Depth Units:	ft		

L61
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141242**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N004S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19390101	Well Depth:	88
Well Depth Units:	ft	Well Hole Depth:	96
Well Hole Depth Units:	ft		

J62
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006883**

State Well #:	01S03W04G002S	Station ID:	46640
Well Name:	Well #136-1	Basin Name:	San Bernardino
Well Use:	Observation	Well Type:	Single Well
Well Depth:	406	Well Completion Rpt #:	Unavailable

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Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K63
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141040**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W09E001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19420101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	100
Well Hole Depth Units:	ft		

M64
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141411**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04G000S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	390
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

M65
NE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00002892**

Well ID:	USGS-340705117115201	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340705117115201	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340705117115201&store_num=		
GeoTracker Data:	Not Reported		

N66
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141361**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05F007S	Type:	Well

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Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460101	Well Depth:	89
Well Depth Units:	ft	Well Hole Depth:	106
Well Hole Depth Units:	ft		

67
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141344**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05E002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	105
Well Hole Depth Units:	ft		

N68
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141388**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05F006S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19360101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	70
Well Hole Depth Units:	ft		

M69
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141394**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04G001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

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Construction Date:	19090101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

M70
NE **CA WELLS** **CAUSGSN00016275**
1/2 - 1 Mile
Higher

Well ID:	USGS-340701117115001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340701117115001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340701117115001&store_num=		
GeoTracker Data:	Not Reported		

71
NNW **FED USGS** **USGS40000141488**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05B002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19110101	Well Depth:	148
Well Depth Units:	ft	Well Hole Depth:	148
Well Hole Depth Units:	ft		

72
SE **CA WELLS** **801**
1/2 - 1 Mile
Higher

Seq:	801	Prim sta c:	01S/03W-04N03 S
Frds no:	3610064025	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	WELL 040A - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340600.0	Longitude:	1171200.0
Precision:	8	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

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Sample date:	17-APR-13	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-13	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-APR-13	Finding:	28.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-MAR-13	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-MAR-13	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-MAR-13	Finding:	31.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-MAR-13	Finding:	4.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-MAR-13	Finding:	29.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-MAR-13	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-MAR-13	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-MAR-13	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-MAR-13	Finding:	2.1
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-FEB-13	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-FEB-13	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-FEB-13	Finding:	1.5
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-FEB-13	Finding:	2.2
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L

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Dlr:	0.		
Sample date:	12-FEB-13	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-FEB-13	Finding:	31.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-FEB-13	Finding:	3.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-FEB-13	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-JAN-13	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JAN-13	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JAN-13	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-JAN-13	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JAN-13	Finding:	28.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	04-JAN-13	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JAN-13	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JAN-13	Finding:	2.1
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JAN-13	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JAN-13	Finding:	4.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

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Sample date:	04-JAN-13	Finding:	32.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	11-DEC-12	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-DEC-12	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-DEC-12	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-DEC-12	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-DEC-12	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-DEC-12	Finding:	3.8
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-DEC-12	Finding:	2.
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-AUG-12	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-AUG-12	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-AUG-12	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-AUG-12	Finding:	2.2
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	1.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-AUG-12	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

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Dlr:	1.		
Sample date:	26-JUL-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-12	Finding:	1.7
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-12	Finding:	2.1
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-12	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUL-12	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-JUL-12	Finding:	24.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	10-JUL-12	Finding:	4.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUL-12	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-JUN-12	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-12	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-JUN-12	Finding:	190.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUN-12	Finding:	59.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUN-12	Finding:	11.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUN-12	Finding:	26.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUN-12	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

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Sample date:	13-JUN-12	Finding:	28.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	13-JUN-12	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUN-12	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-JUN-12	Finding:	0.87
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-12	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-12	Finding:	2.1
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-12	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-JUN-12	Finding:	23.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-JUN-12	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-MAY-12	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-MAY-12	Finding:	3.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	32.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-MAY-12	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-MAY-12	Finding:	2.5
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-MAY-12	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L

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Dlr:	0.		
Sample date:	17-APR-12	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-APR-12	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-12	Finding:	2.1
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-12	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	26.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	03-APR-12	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	27-MAR-12	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-MAR-12	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-MAR-12	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-MAR-12	Finding:	1.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-MAR-12	Finding:	2.2
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-MAR-12	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-MAR-12	Finding:	27.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

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Sample date:	06-MAR-12	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-MAR-12	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-FEB-12	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-FEB-12	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-FEB-12	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-FEB-12	Finding:	23.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-FEB-12	Finding:	4.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	30.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	08-FEB-12	Finding:	1.9
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	1.7
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	0.87
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-JAN-12	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JAN-12	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JAN-12	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JAN-12	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

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Dlr:	2.		
Sample date:	05-JAN-12	Finding:	1.9
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JAN-12	Finding:	23.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-JAN-12	Finding:	4.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JAN-12	Finding:	30.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-JAN-12	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JAN-12	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JAN-12	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

73
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141286**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05M003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19240101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	101
Well Hole Depth Units:	ft		

O74
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000141248**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04R003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		

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Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19520101	Well Depth:	245
Well Depth Units:	ft	Well Hole Depth:	255
Well Hole Depth Units:	ft		

O75
East
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00010473**

Well ID:	USGS-340635117113501	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-340635117113501	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-340635117113501&store_num=		
GeoTracker Data:	Not Reported		

P76
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006863**

State Well #:	01S03W04J001S	Station ID:	25822
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

P77
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000141307**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04J001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19480101	Well Depth:	456
Well Depth Units:	ft	Well Hole Depth:	500
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	10	Level reading date:	2004-10-22
Feet below surface:	219.57	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2004-04-20	Feet below surface:	212.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-22	Feet below surface:	208.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-04-21	Feet below surface:	203.12

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Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-10-29	Feet below surface:	199.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-04-09	Feet below surface:	188.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-10-22	Feet below surface:	183.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-04-18	Feet below surface:	172.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-01-25	Feet below surface:	171.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-26	Feet below surface:	166.83
Feet to sea level:	Not Reported	Note:	Not Reported

78
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141312**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05M002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19210101	Well Depth:	78
Well Depth Units:	ft	Well Hole Depth:	83
Well Hole Depth Units:	ft		

79
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141508**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04C001S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19480101	Well Depth:	423
Well Depth Units:	ft	Well Hole Depth:	440
Well Hole Depth Units:	ft		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q80
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141203**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N070S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460101	Well Depth:	110
Well Depth Units:	ft	Well Hole Depth:	130
Well Hole Depth Units:	ft		

Q81
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141204**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N008S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19500101	Well Depth:	118
Well Depth Units:	ft	Well Hole Depth:	133
Well Hole Depth Units:	ft		

P82
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000018191**

Well ID:	01S03W04J001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S03W04J001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S03W04J001S&store_num=		
GeoTracker Data:	Not Reported		

Q83
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141174**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N006S	Type:	Well

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Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19510101	Well Depth:	96
Well Depth Units:	ft	Well Hole Depth:	105
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	4	Level reading date:	1988-11-23
Feet below surface:	87.30	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1988-06-30	Feet below surface:	76.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-12-09	Feet below surface:	74.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-07-15	Feet below surface:	65.90
Feet to sea level:	Not Reported	Note:	Not Reported

84
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000024907**

Well ID:	01S03W05D001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S03W05D001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S03W05D001S&store_num=		
GeoTracker Data:	Not Reported		

85
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141450**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05D003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19310101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	253
Well Hole Depth Units:	ft		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

86
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000007406**

Well ID:	3610704-005	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 02A - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610704-005&store_num=		
GeoTracker Data:	Not Reported		

87
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141313**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06J003S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	374
Well Hole Depth Units:	ft		

Q88
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141216**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06R002S	Type:	Well
Description:	Not Reported	HUC:	18070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19260101	Well Depth:	106
Well Depth Units:	ft	Well Hole Depth:	113
Well Hole Depth Units:	ft		

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92346	17	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 92346

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX C
HISTORICAL RESEARCH DOCUMENTATION

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APPENDIX C.1
TOPOGRAPHIC MAPS

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Lovett Highland
27124-27280 Meines St
Highland, CA 92346

Inquiry Number: 6958529.4
April 28, 2022

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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EDR Historical Topo Map Report

04/28/22

Site Name:

Lovett Highland
27124-27280 Meines St
Highland, CA 92346
EDR Inquiry # 6958529.4

Client Name:

Ramboll
18100 Von Karman Avenue
Irvine, CA 92612
Contact: Kelly Chen

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ramboll were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: NA

Coordinates:

Latitude:	34.110006 34° 6' 36" North
Longitude:	-117.209428 -117° 12' 34" West
UTM Zone:	Zone 11 North
UTM X Meters:	480684.73
UTM Y Meters:	3774373.13
Elevation:	1192.01' above sea level

Maps Provided:

2018	1967
2015	1954
2012	1953, 1954
1996	1901
1988	1899
1980	
1975	
1973	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets

Redlands
2018
7.5-minute, 24000

Harrison Mountain
2018
7.5-minute, 24000

2015 Source Sheets

Redlands
2015
7.5-minute, 24000

Harrison Mountain
2015
7.5-minute, 24000

2012 Source Sheets

Redlands
2012
7.5-minute, 24000

Harrison Mountain
2012
7.5-minute, 24000

1996 Source Sheets

Redlands
1996
7.5-minute, 24000
Aerial Photo Revised 1994

Harrison Mountain
1996
7.5-minute, 24000
Aerial Photo Revised 1994

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1988 Source Sheets

Redlands
1988
7.5-minute, 24000
Aerial Photo Revised 1985

Harrison Mtn.
1988
7.5-minute, 24000
Aerial Photo Revised 1985

1980 Source Sheets

Harrison Mtn.
1980
7.5-minute, 24000
Aerial Photo Revised 1978

Redlands
1980
7.5-minute, 24000
Aerial Photo Revised 1978

1975 Source Sheets

Redlands
1975
7.5-minute, 24000
Aerial Photo Revised 1975

Harrison Mtn.
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1973 Source Sheets

Harrison Mtn
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Redlands
1973
7.5-minute, 24000
Aerial Photo Revised 1973

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1967 Source Sheets

Harrison Mtn.
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Redlands
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1954 Source Sheets

Redlands
1954
15-minute, 62500
Aerial Photo Revised 1952

1953, 1954 Source Sheets

Harrison Mtn.
1953
7.5-minute, 24000
Aerial Photo Revised 1952

1901 Source Sheets

Redlands
1901
15-minute, 62500

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1899 Source Sheets

Redlands
1899
15-minute, 62500

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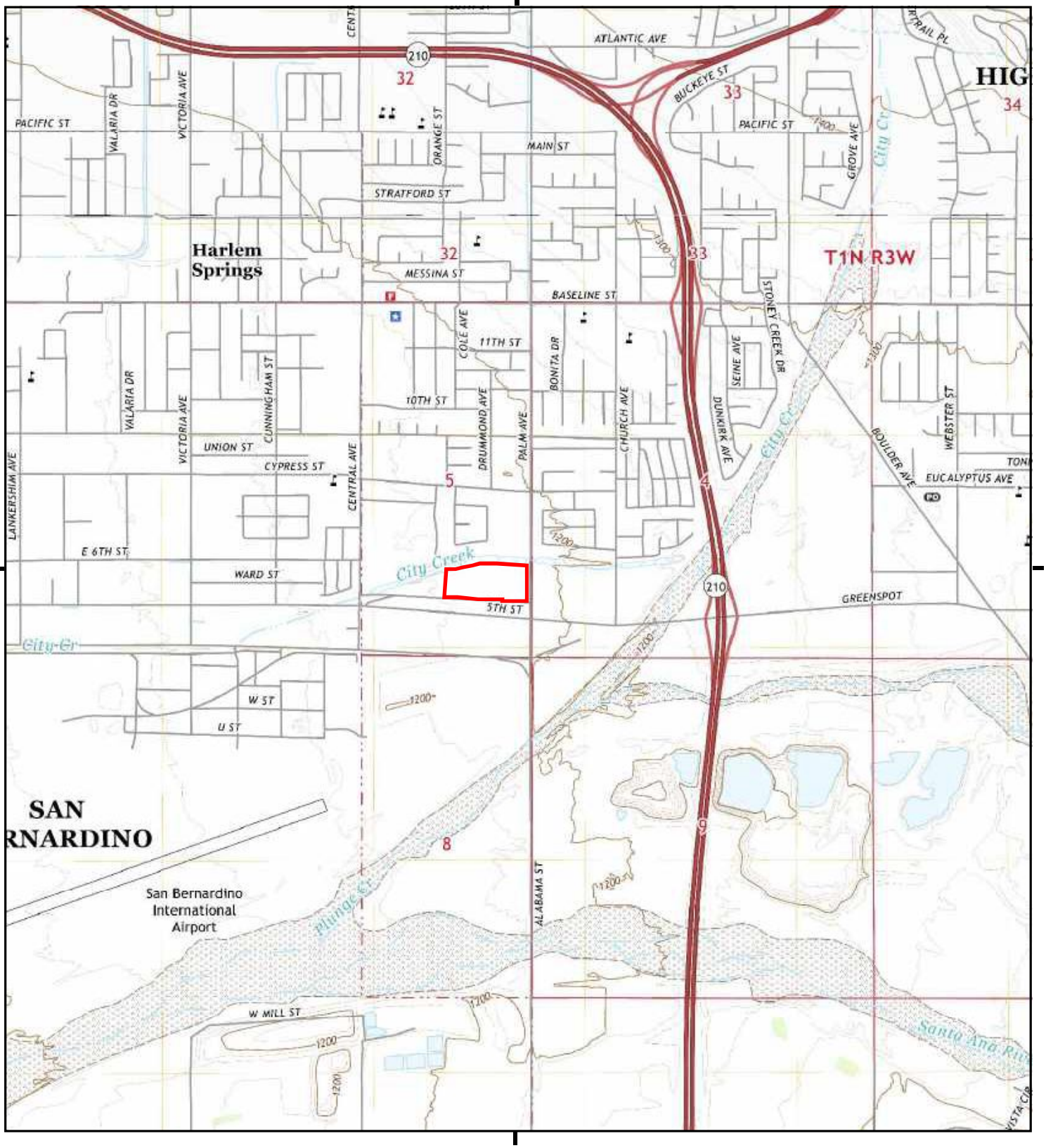
Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 2018, 7.5-minute
N, Harrison Mountain, 2018, 7.5-minute

SITE NAME: Lovett Highland
ADDRESS: 27124-27280 Meines St
Highland, CA 92346
CLIENT: Ramboll

N

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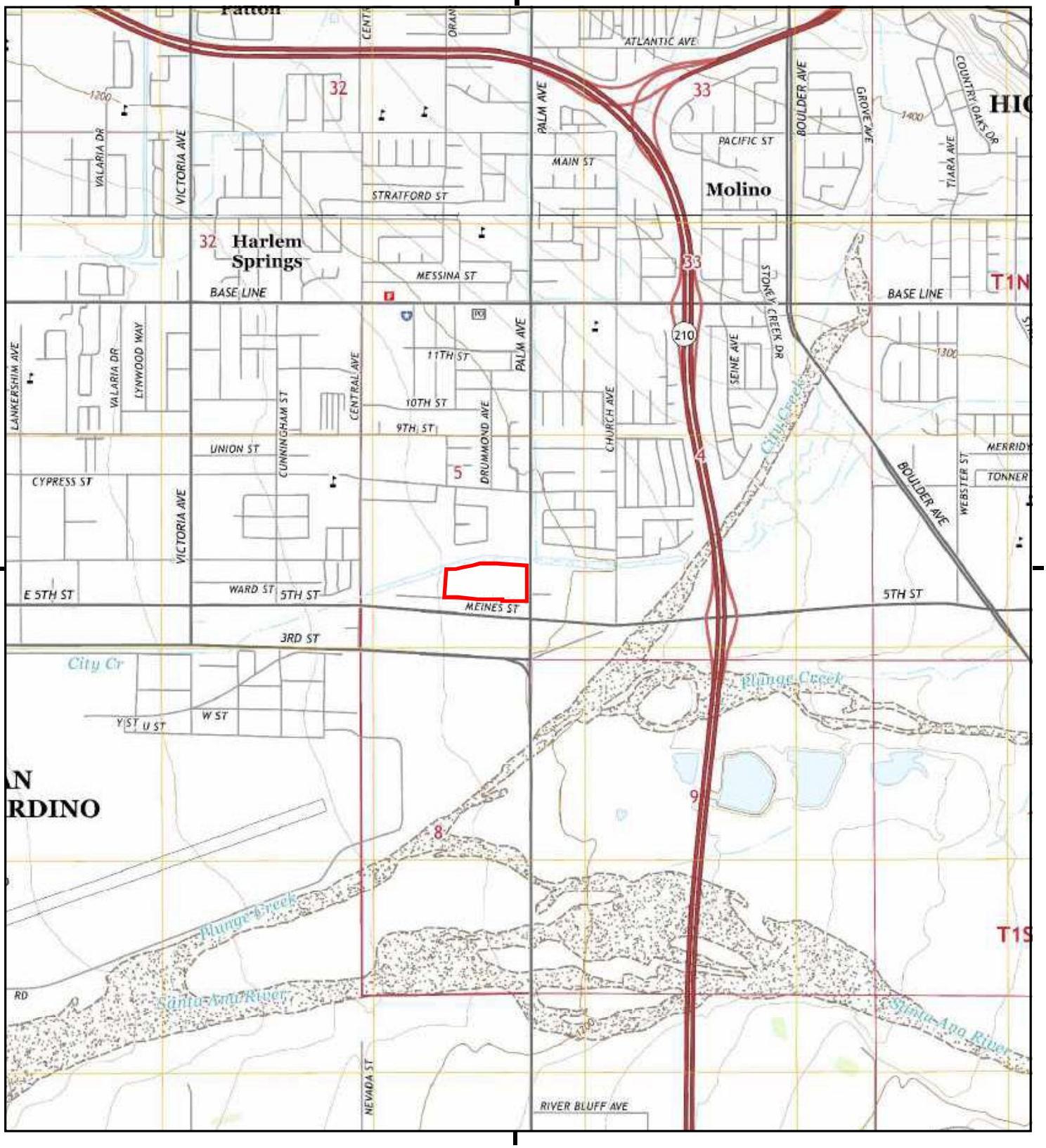
Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 2015, 7.5-minute
N, Harrison Mountain, 2015, 7.5-minute

SITE NAME: Lovett Highland
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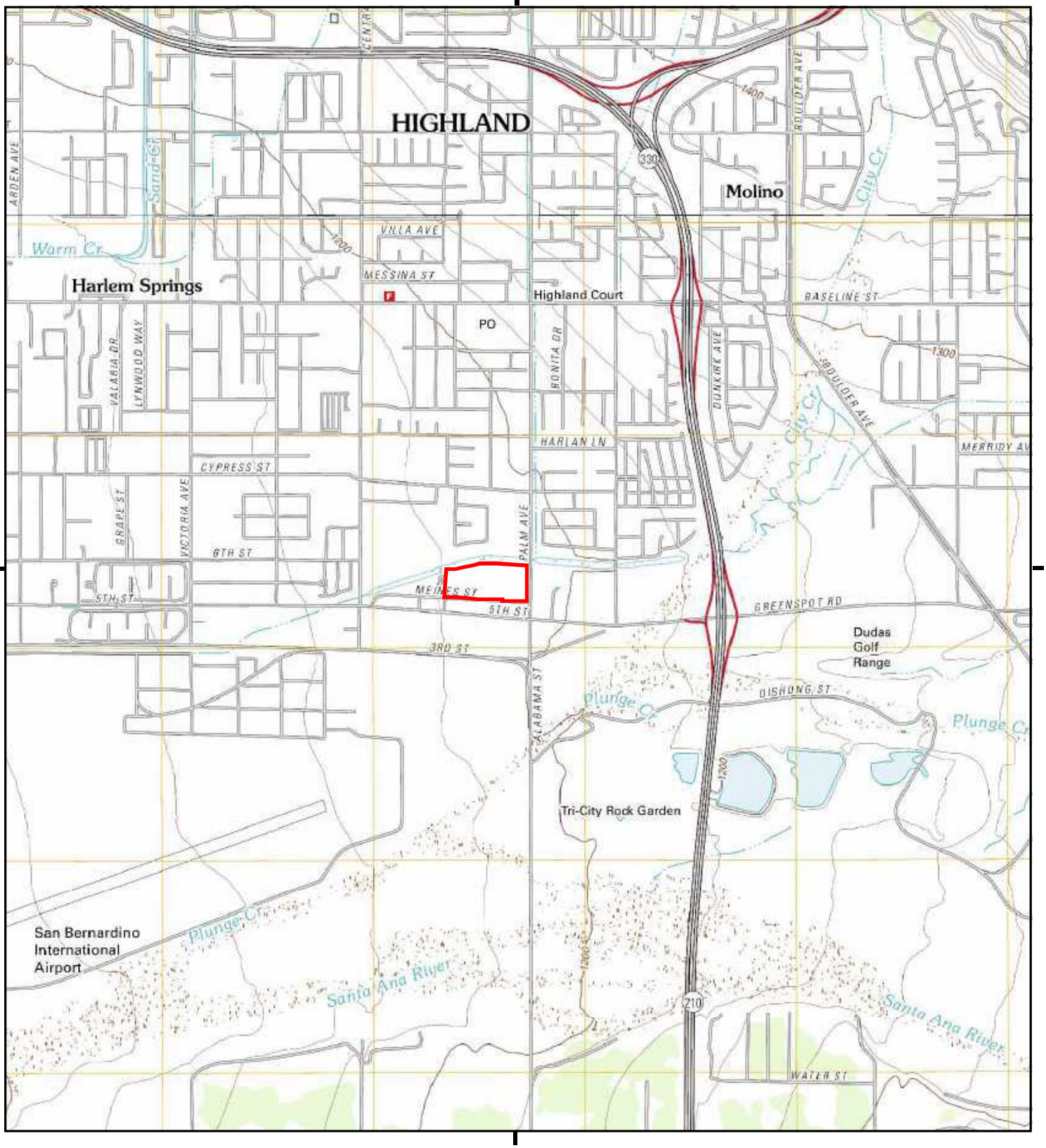
Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 2012, 7.5-minute
N, Harrison Mountain, 2012, 7.5-minute

SITE NAME: Lovett Highland
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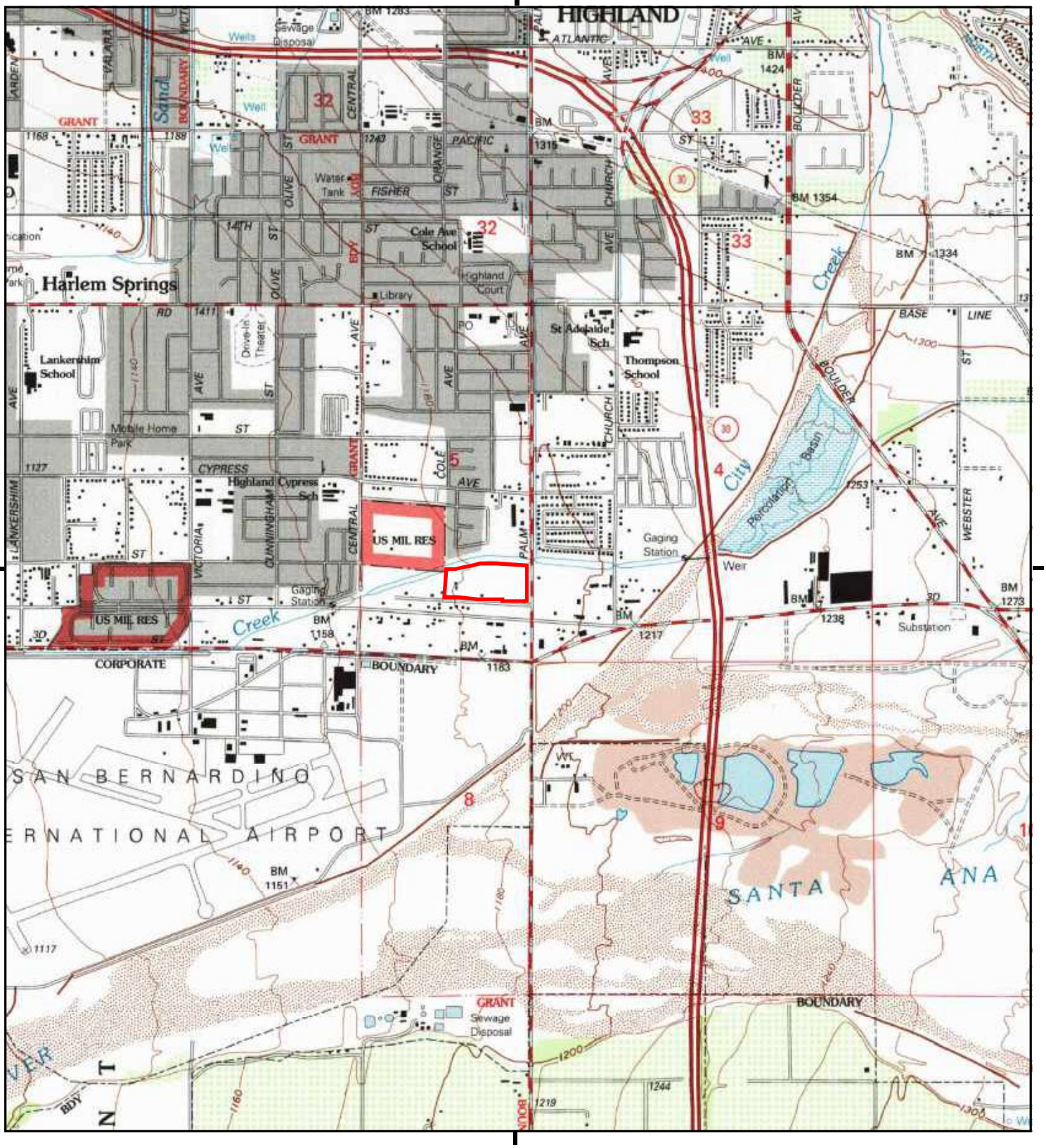
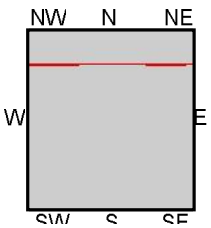
Historical Topo Map

1996



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Redlands, 1996, 7.5-minute
N, Harrison Mountain, 1996, 7.5-minute

SITE NAME: Lovett Highland
ADDRESS: 27124-27280 Meines St
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N

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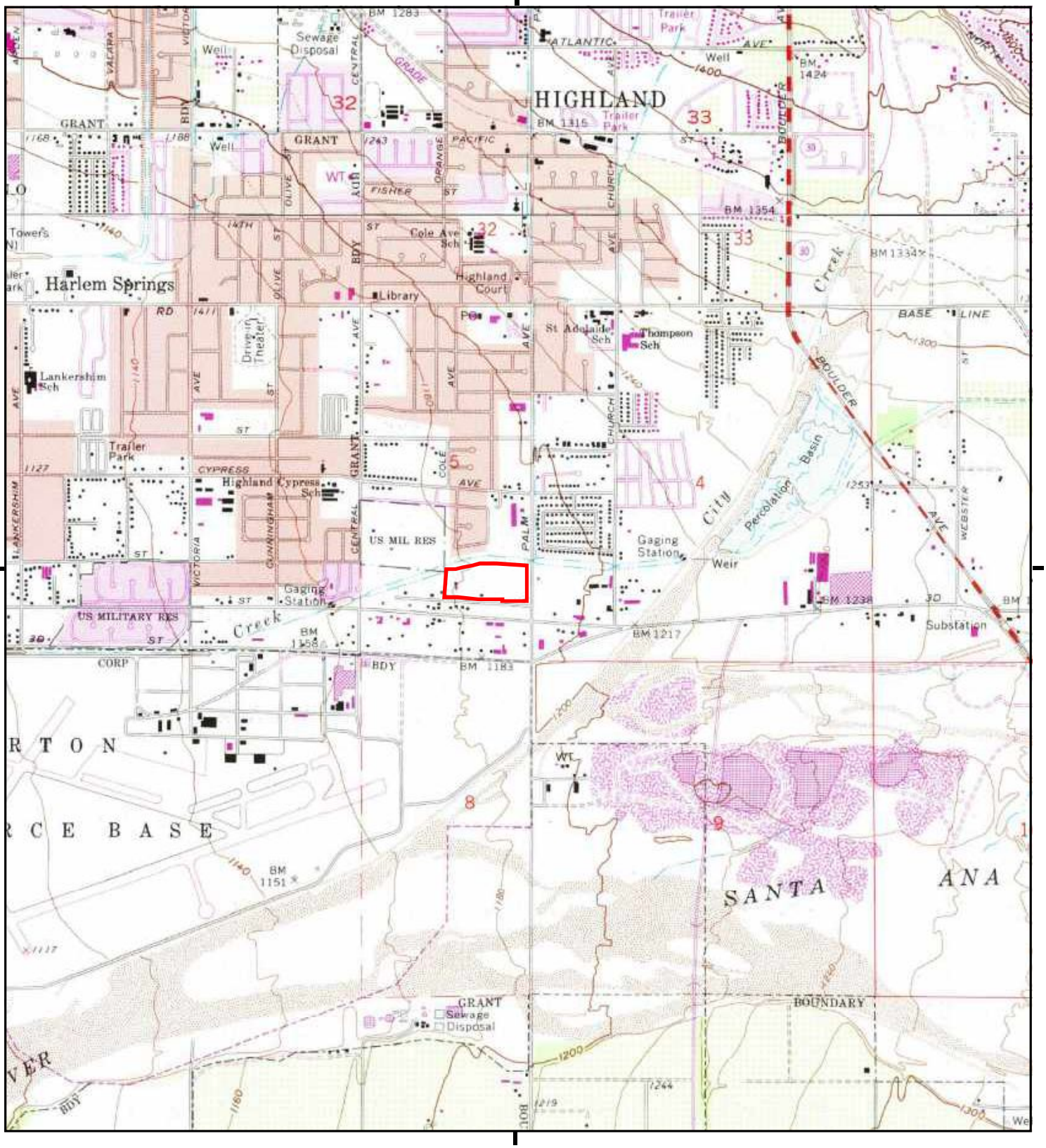
Historical Topo Map

1988



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 1988, 7.5-minute
N, Harrison Mtn., 1988, 7.5-minute

SITE NAME: Lovett Highland
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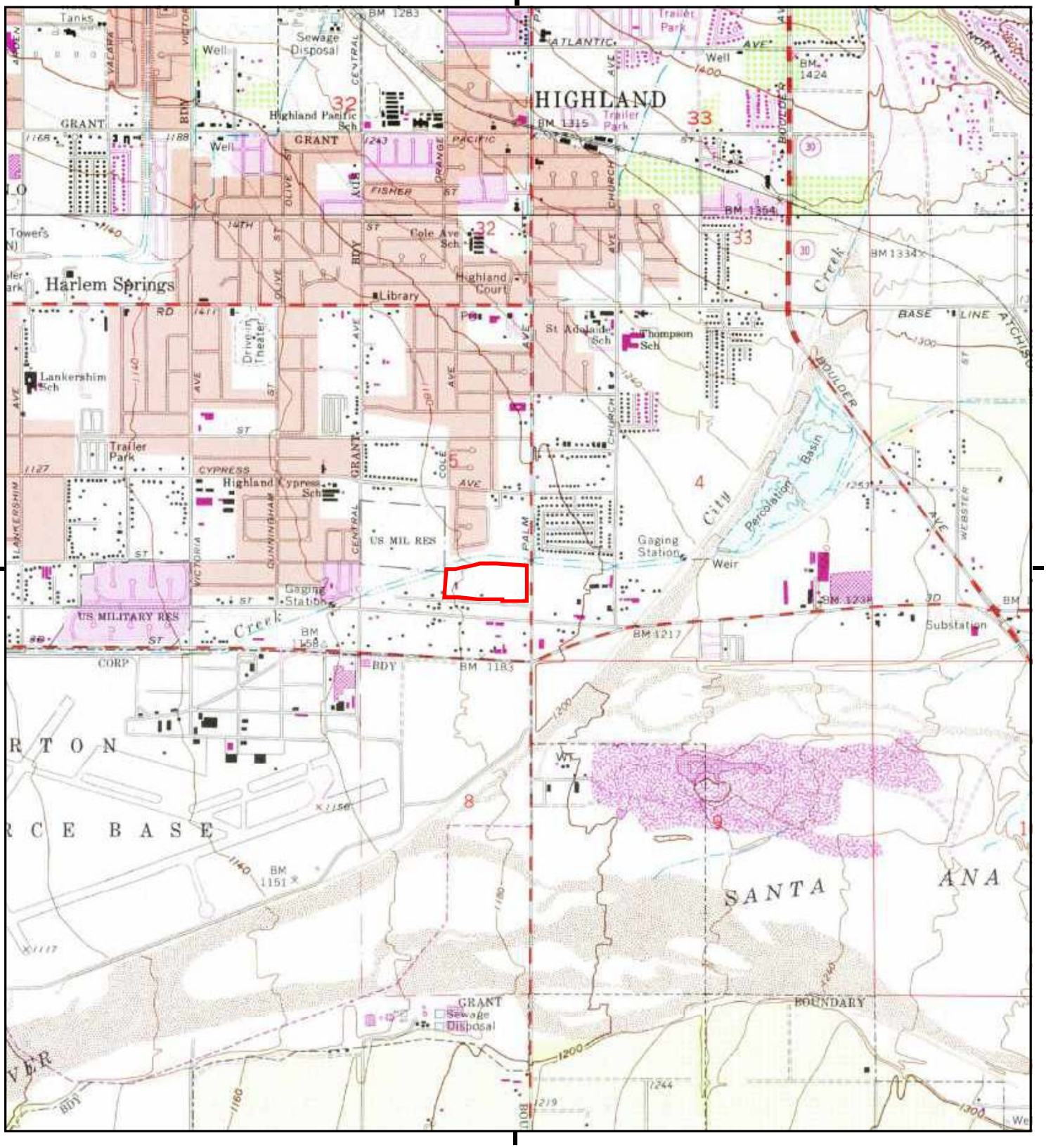
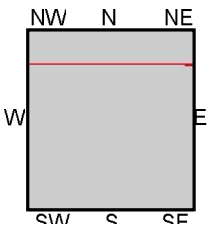
Historical Topo Map

1980



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Redlands, 1980, 7.5-minute
N, Harrison Mtn., 1980, 7.5-minute

SITE NAME: Lovett Highland
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Historical Topo Map

1975

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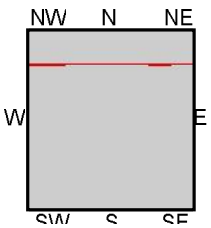
0 Miles 0.25 0.5 1 1.5



TP, Redlands, 1975, 7.5-minute
N, Harrison Mtn., 1975, 7.5-minute

SITE NAME: Lovett Highland
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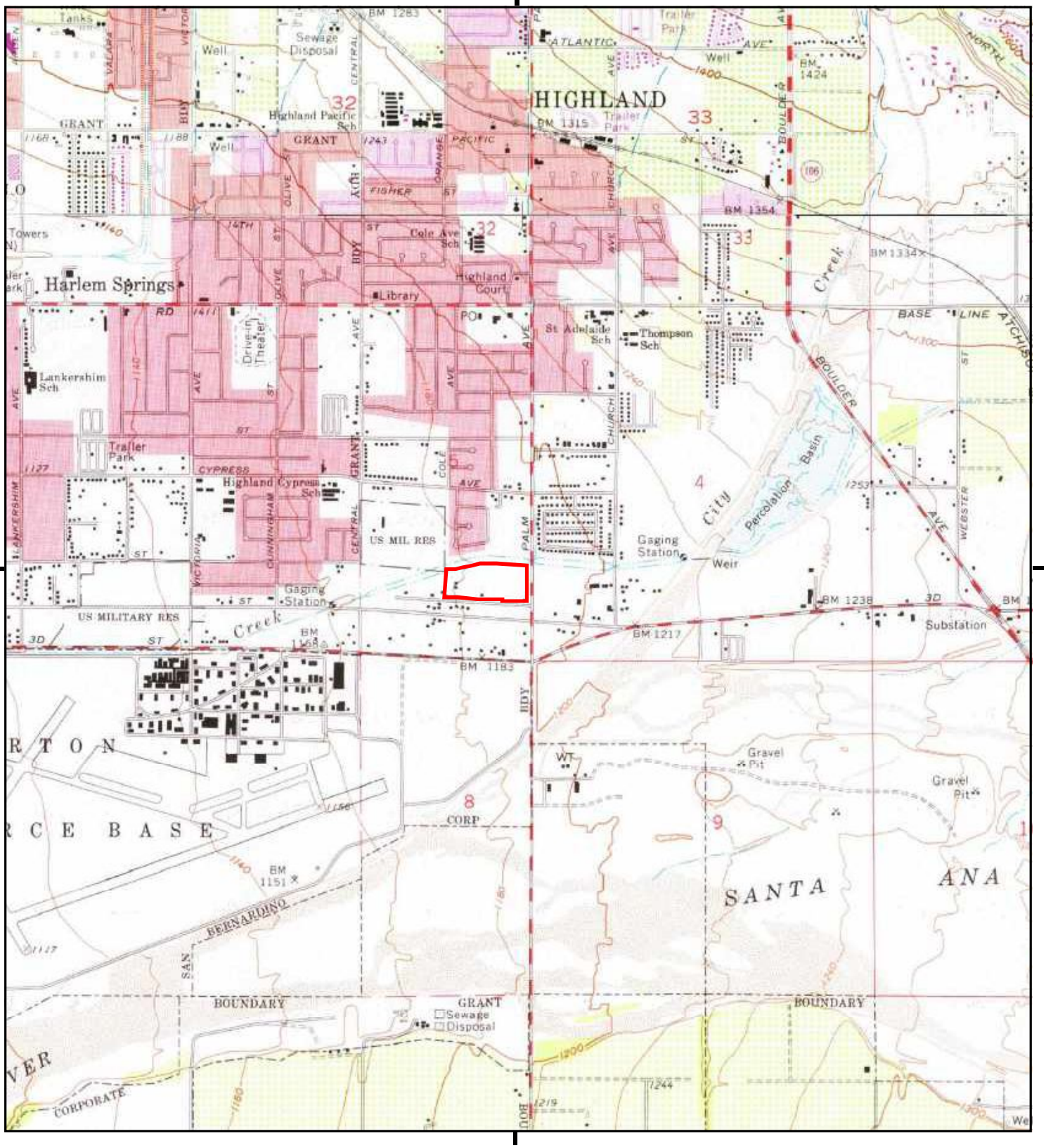
Historical Topo Map

1973



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 1973, 7.5-minute
N, Harrison Mtn, 1973, 7.5-minute

SITE NAME: Lovett Highland
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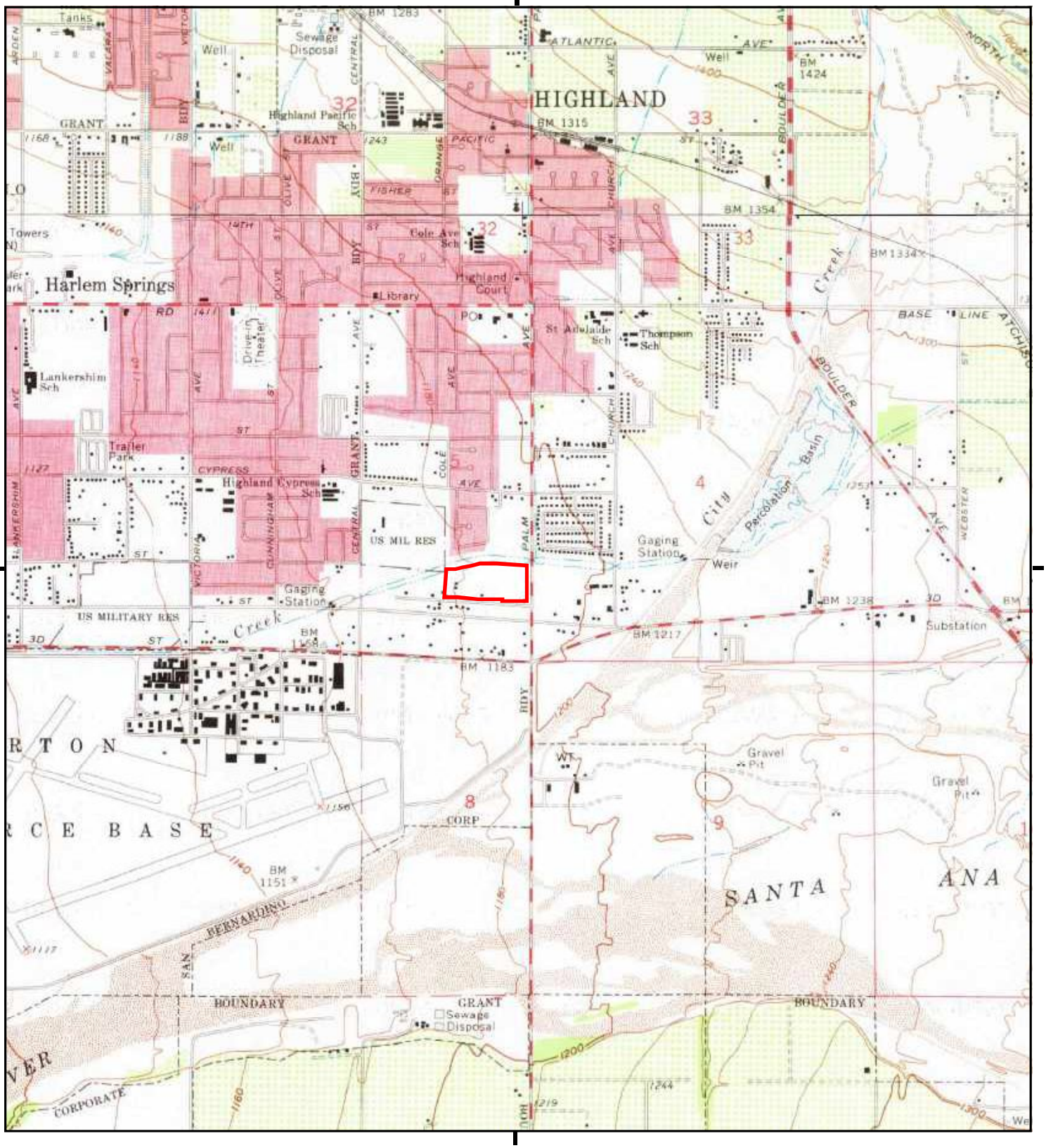
Historical Topo Map

1967



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 1967, 7.5-minute
N, Harrison Mtn., 1967, 7.5-minute

SITE NAME: Lovett Highland
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N

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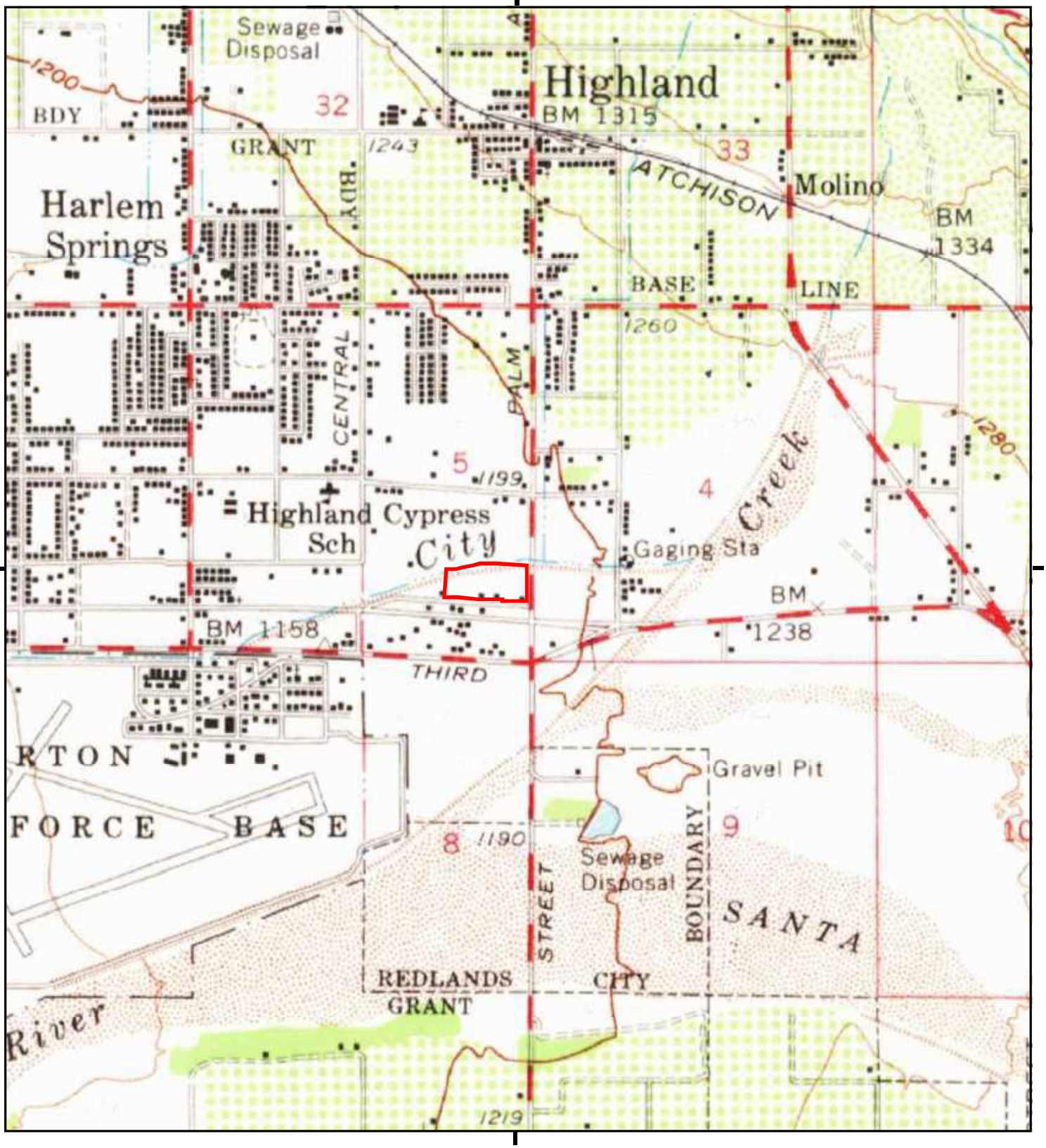
Historical Topo Map

1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 1954, 15-minute

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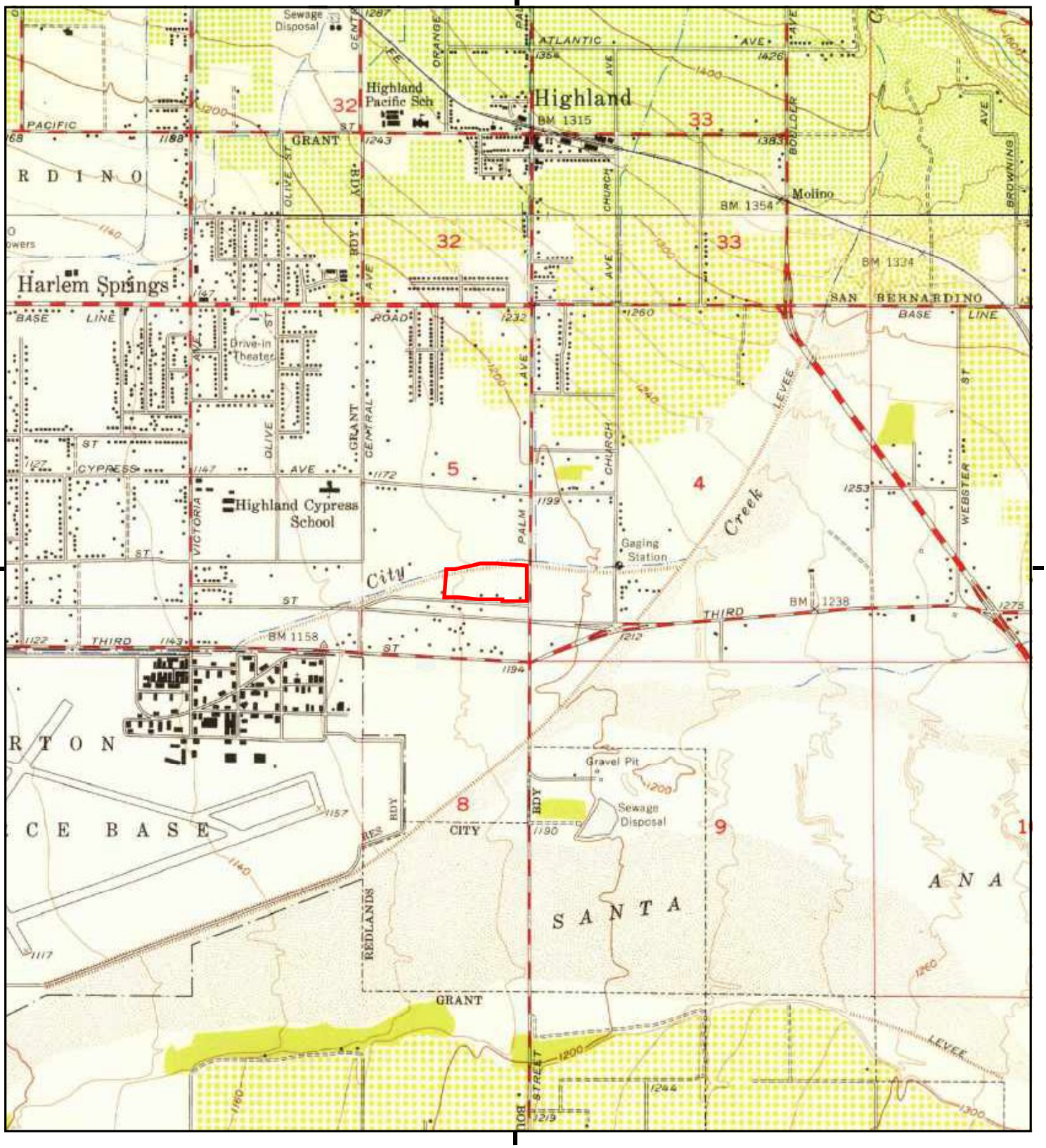
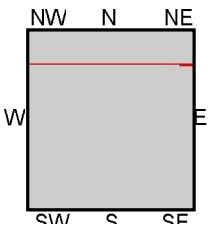
Historical Topo Map

1953, 1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Redlands, 1954, 7.5-minute
N, Harrison Mtn., 1953, 7.5-minute

SITE NAME: Lovett Highland
ADDRESS: 27124-27280 Meines St
Highland, CA 92346
CLIENT: Ramboll

N

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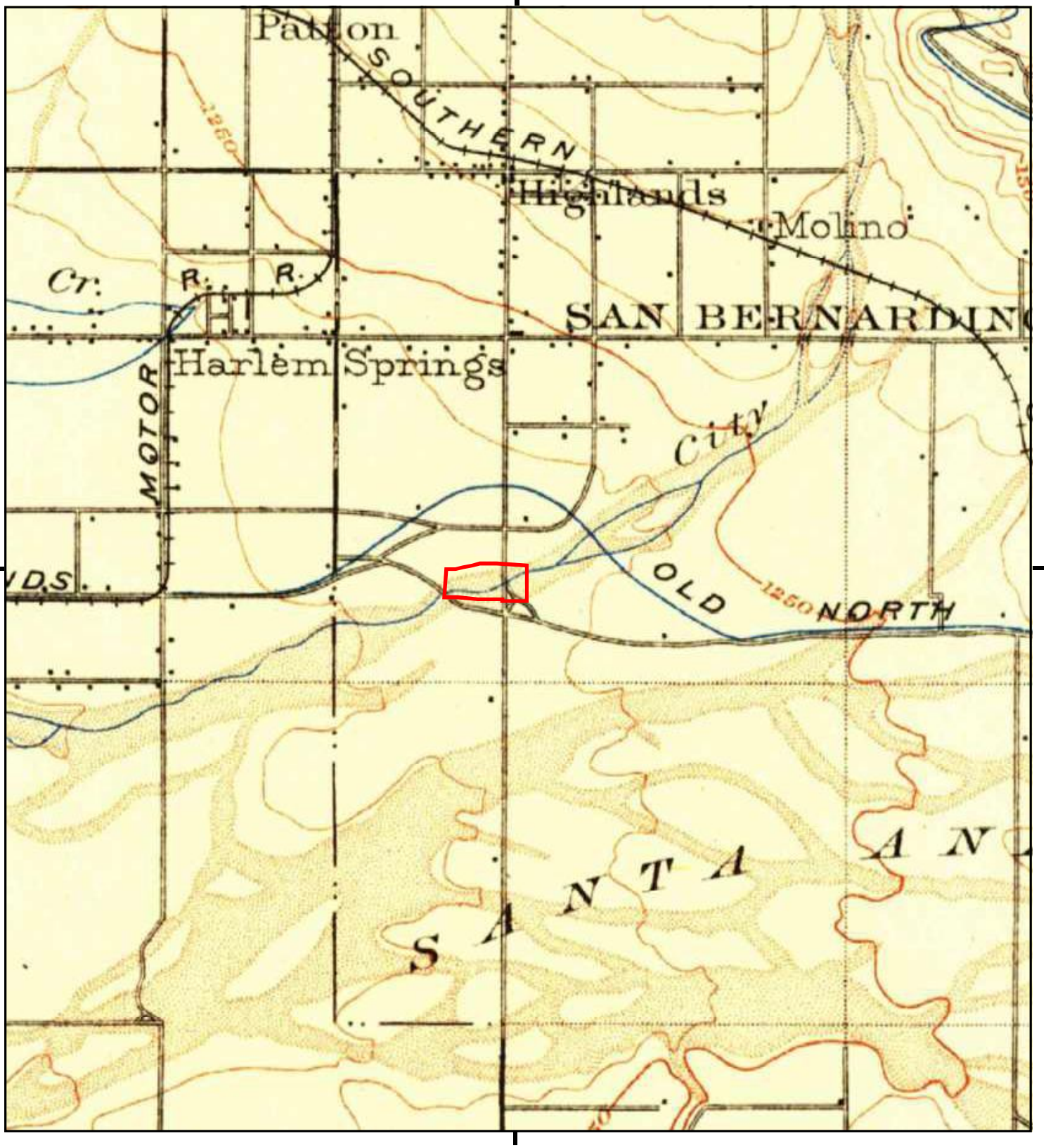

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 1901, 15-minute

SITE NAME: Lovett Highland
ADDRESS: 27124-27280 Meines St
Highland, CA 92346
CLIENT: Ramboll

N

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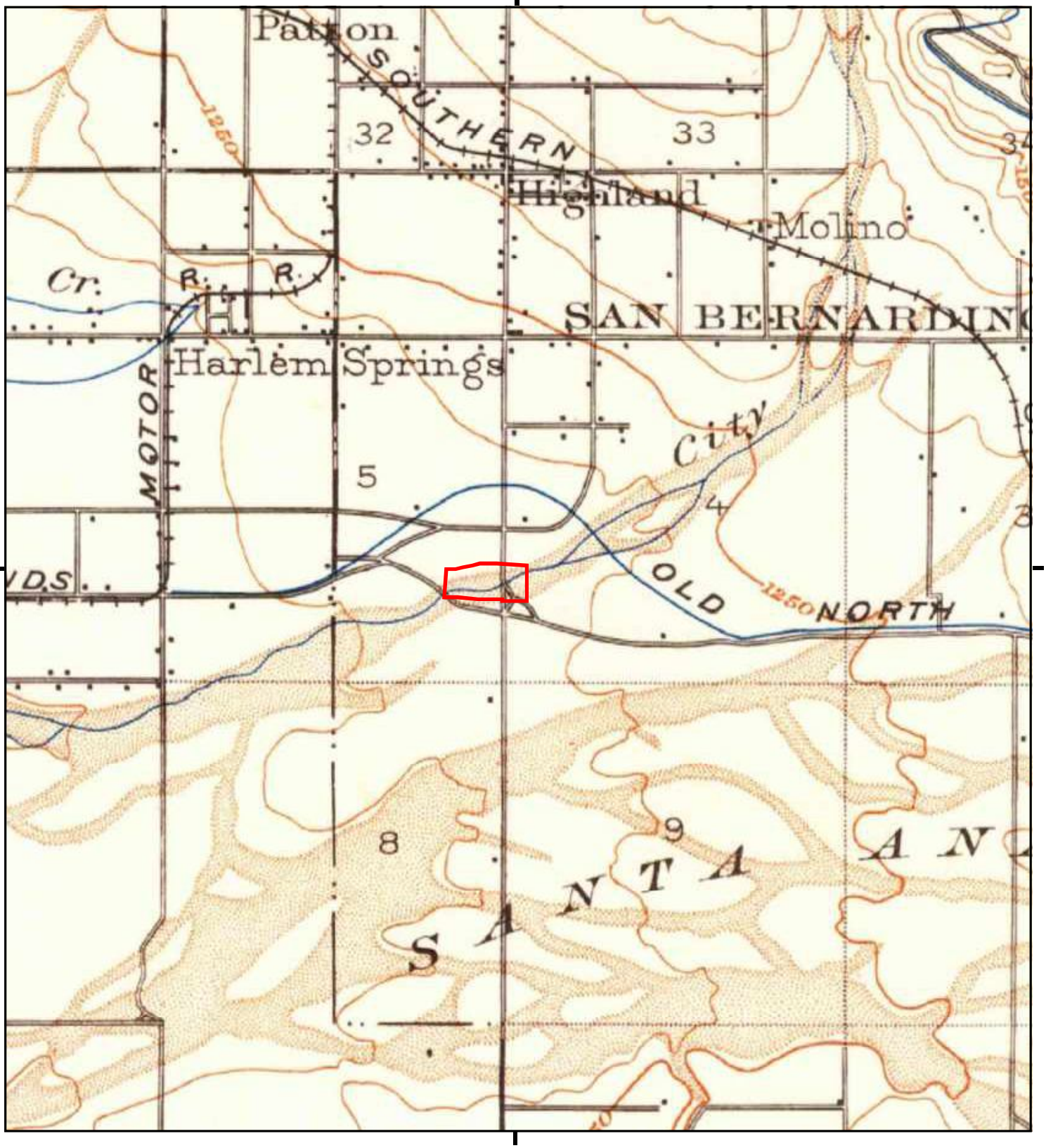

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 1899, 15-minute

SITE NAME: Lovett Highland
ADDRESS: 27124-27280 Meines St
Highland, CA 92346
CLIENT: Ramboll

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APPENDIX C.2
AERIAL PHOTOGRAPHS

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Lovett Highland

27124-27280 Meines St

Highland, CA 92346

Inquiry Number: 6958529.8

April 28, 2022

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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EDR Aerial Photo Decade Package

04/28/22

Site Name:

Lovett Highland
27124-27280 Meines St
Highland, CA 92346
EDR Inquiry # 6958529.8

Client Name:

Ramboll
18100 Von Karman Avenue
Irvine, CA 92612
Contact: Kelly Chen

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: January 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1975	1"=500'	Flight Date: December 01, 1975	USGS
1968	1"=500'	Flight Date: August 22, 1968	USDA
1966	1"=500'	Flight Date: April 16, 1966	USGS
1959	1"=500'	Flight Date: October 16, 1959	USDA
1953	1"=500'	Flight Date: January 15, 1953	USDA
1949	1"=500'	Flight Date: May 08, 1949	USDA
1938	1"=500'	Flight Date: June 03, 1938	USDA
1930	1"=500'	Flight Date: March 25, 1930	FAIR

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INQUIRY #: 6958529.8

YEAR: 1985

= 500'

N

EDR

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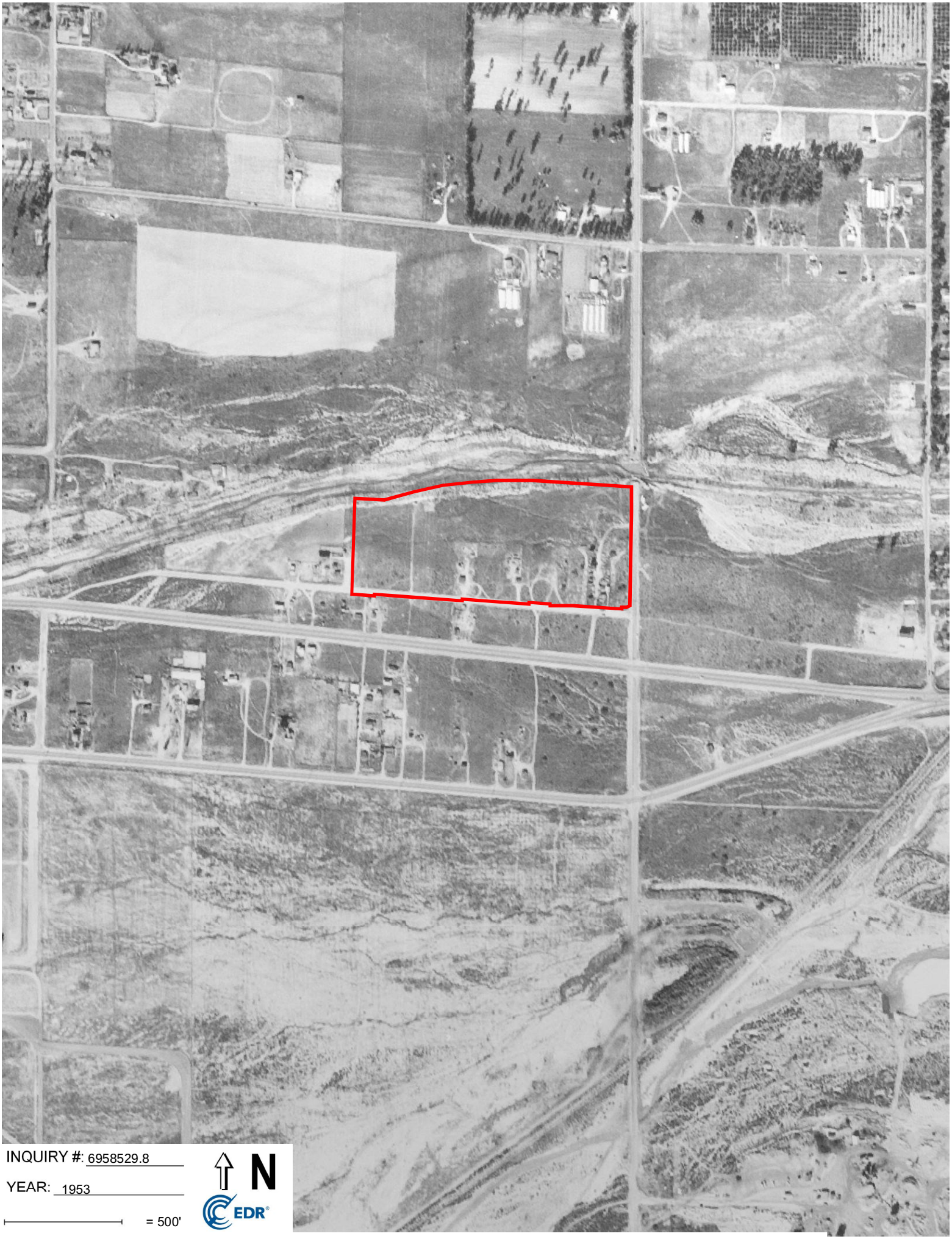

INQUIRY #: 6958529.8

YEAR: 1953

= 500'

N

EDR

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INQUIRY #: 6958529.8

YEAR: 1949

= 500'

N

EDR

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INQUIRY #: 6958529.8

YEAR: 1938

= 500'

N

EDR

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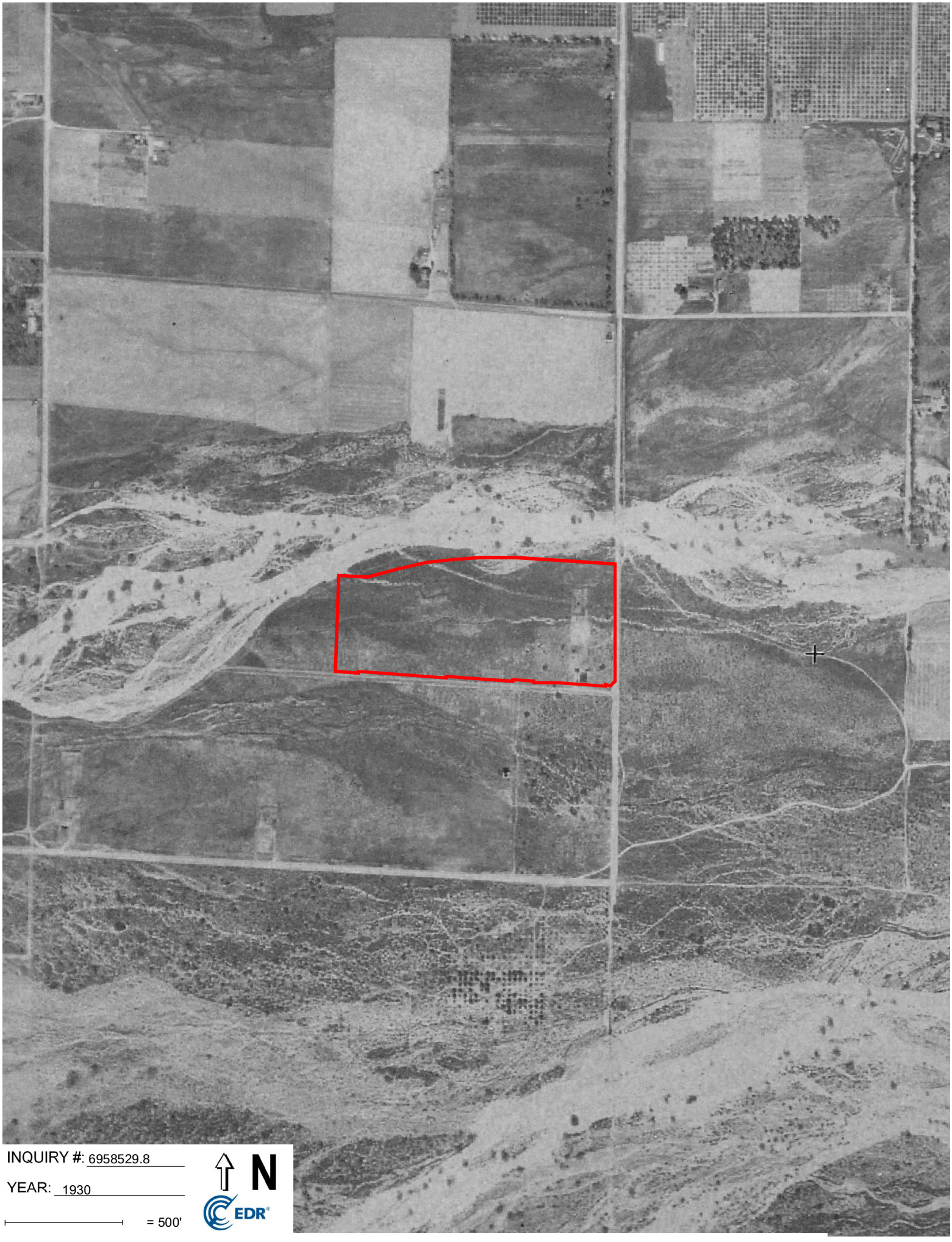

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APPENDIX C.3
ABSTRACT OF CITY DIRECTORIES

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Lovett Highland
27124-27280 Meines St
Highland, CA 92346

Inquiry Number: 6958529.5
April 29, 2022

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2017	☑	☑	EDR Digital Archive
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1995	☑	☑	EDR Digital Archive
1992	☑	☑	EDR Digital Archive
1986	☑	☑	Haines Criss-Cross Directory
1980	☑	☑	Haines Criss-Cross Directory
1976	☑	☑	Haines Criss-Cross Directory
1971	☑	☑	Haines Criss-Cross Directory

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FINDINGS

TARGET PROPERTY STREET

27124-27280 Meines St
Highland, CA 92346

Year	*CD Image*	*Source*
MEINES ST		
2017	pg A1	EDR Digital Archive
2014	pg A3	EDR Digital Archive
2010	pg A5	EDR Digital Archive
2005	pg A7	EDR Digital Archive
2000	pg A9	EDR Digital Archive
1995	pg A11	EDR Digital Archive
1992	pg A13	EDR Digital Archive
1986	pg A15	Haines Criss-Cross Directory
1980	pg A17	Haines Criss-Cross Directory
1976	pg A20	Haines Criss-Cross Directory
1971	pg A22	Haines Criss-Cross Directory
1971	pg A23	Haines Criss-Cross Directory

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FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
PALM AVE		
2017	pg. A2	EDR Digital Archive
2014	pg. A4	EDR Digital Archive
2010	pg. A6	EDR Digital Archive
2005	pg. A8	EDR Digital Archive
2000	pg. A10	EDR Digital Archive
1995	pg. A12	EDR Digital Archive
1992	pg. A14	EDR Digital Archive
1986	pg. A16	Haines Criss-Cross Directory
1980	pg. A18	Haines Criss-Cross Directory
1980	pg. A19	Haines Criss-Cross Directory
1976	pg. A21	Haines Criss-Cross Directory
1971	pg. A24	Haines Criss-Cross Directory

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City Directory Images

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✓	-	EDR Digital Archive

MEINES ST 2017

26998	MARRS, RONNIE J
27002	STEPHENS, RICHARD W
27077	COATES, CHARLES
27200	TIRB, RANSOM E
27260	KCB TOWERS INC

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Target Street	Cross Street	Source
-	✓	EDR Digital Archive

PALM AVE 2017

7724	FORREST, M
7750	ARTS CALI
	CEE VEES LIQUOR & DELI
	I LOVE SUSHI
	JENNYS FAMILY RESTAURANT
	JUANITOS TACO
	LUNA & SOL BARBER & BEAUTY SHOP
	PALM LAND
	PHO T & T VIETNAMESE RESTAURANT
	PLAZA ORO
	THAI SPOON
	THE GREEN FROG
	TWISTED IMAGES INK
7919	H & H GENERAL CONTRACTORS INC
7933	M E I ELECTRICAL CONSTRUCTIONENGINE
8020	CREATE YOUR OWN PIZZA
8048	JCA ENGENEERING INC
8068	ALAPALM ANIMAL HOSPITAL

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Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MEINES ST 2014

26970	OCCUPANT UNKNOWN,
26998	MARRS, RONNIE J
27000	OCCUPANT UNKNOWN,
27002	STEPHENS, RICHARD W
27077	SANCHEZ, JOSE
27184	OCCUPANT UNKNOWN,
27200	TIRB, RANSOM E
27260	KCB TOWERS INC
27280	BOGH, LYNN

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Target Street	Cross Street	Source
-	✓	EDR Digital Archive

PALM AVE 2014

7724	FORREST, M
7750	CEE VEES LIQUOR & DELI
	CLEAR WATER SPORTS
	GIBSON, BRANDI N
	I LOVE SUSHI
	JAPANESE MASSAGE
	JENNYS FAMILY RESTAURANT
	JUANITOS TACO
	LUNA & SOL BARBER & BEAUTY SHOP
	PALM LAND
	PHO T & T VIETNAMESE RESTAURANT
	THAI SPOON
	THE GREEN FROG
7919	H & H GENERAL CONTRACTORS INC
7933	M E I ELECTRICAL CONSTRUCTIONENGINE
7983	MACKENZIE, DENIS
8048	JCA ENGENEERING INC
8068	ALAPALM ANIMAL HOSPITAL

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MEINES ST 2010

26970 OCCUPANT UNKNOWN,
26998 MARRS, RONNIE J
27000 OCCUPANT UNKNOWN,
27002 STEPHENS, JEANI M
27077 AGUILAR, CARMEN R
27124 PHILIPINO ASSNSAN BERNARDINO
27200 TIRB, RANSOM E
27232 MAZULLA OFFROAD
MAZZULLA GRADING
27280 BOGH, LYNN

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Target Street	Cross Street	Source
-	✓	EDR Digital Archive

PALM AVE 2010

7724	FORREST, M
7750	40 THIEVES CAFE
	BIG KAHUNA
	CEE VEES LIQUOR & DELI
	COLD WAR SHOOTER SPORTING GOOD
	EL MANANTIAL WATER STORE
	HIDDEN TREASURES
	HOUSE OF FOOD
	HUESCA BAKERY INC
	HYPERACTIVE COMPONENTS
	J PS VILLA MEXXICAN GRILL
	JAPANESE MASSAGE
	JENNYS FAMILY RESTAURANT
	JUANITOS TACO
	LUNA & SOL BARBER BEAUTY SHOP
	PALM LAND
	RIDERS EDGE
	SASEUNG, PATE
	THAI SPOON RESTAURANT
7933	MEI ELECTRICAL CONSTRUCTION
7979	SAFETYKLEEN SYSTEMS
7983	MACKENZIE, PATRICK
8020	NITRO 2 GO
8048	JCA CONSULTING
8068	ALAPALM ANIMAL HOSPITAL

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✓	-	EDR Digital Archive

MEINES ST 2005

26970	OCCUPANT UNKNOWN,
26998	MARRS, WILLIAM R
27002	STEPHENS, JEANI M
27077	MIGUEL, P A
27184	URIBE, OSCAR
27200	TIRB, RANSOM E
27260	HIGHLANDER GROUP
	KCB TOWERS INC
27280	BOGH, LYNN

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-	✓	EDR Digital Archive

PALM AVE 2005

7724	FORREST, M
7750	APPROVED GLASS & MIRROR
	CEE VEES LIQUOR & DELI
	COUCH POTATO VIDEO & BASEBALL CARDS
	CURVES FOR WOMEN WEST HIGHLAND
	EL PACIFICO
	EMIKO JAPANESE RESTAURANT
	HIGHLAND AREA CHAMBER OF COMMERCE
	HUESCA BAKERY INC
	HYPERACTIVE COMPONENTS
	JASMINES KABOB PALACE
	KENNEDY, MATTHEW
	MARIAS CAFE MEXICAN RESTAURANT
	SCHINDLER REAL ESTATE SERVICE
	SCRAPPYS THRIFT
	SPORTZ WEAR SCREEN PRINTING
	WEST COAST CYCLES INC
7933	MACKENZIE ELECTRIC INC
7979	FRANK KENDRICK
	SAFETY KLEEN CORP
7983	MACKENZIE, PATRICK
8020	NITRO 2 GO INC
8048	JCA ENGINEERING INC
8068	ALAPALM ANIMAL CLINIC

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✓	-	EDR Digital Archive

MEINES ST 2000

26998 MARRS, WILLIAM R
27000 OCCUPANT UNKNOWN,
27002 POSADAS, ANGELO
27077 APARICIO, S
27124 FILIPINO ASSOCIATION OF SAN BERNARDINO COUNTY
27184 OCCUPANT UNKNOWN,
27200 OCCUPANT UNKNOWN,
27220 OCCUPANT UNKNOWN,
27260 HIGHLAND CRANE
MARK J MAZZULLA GRADING COMPANY

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PALM AVE 2000

7750	CEE VEES LIQUOR & DELI
	CHINA BUFFET RESTAURANT
	COUCH POTATO VIDEO & BASEBALL CARDS
	EMIKO JAPANESE RESTAURANT
	GARDNER DEVELOPMENT
	JAPANESE MASSAGE
7933	M E I ELECTRICAL CONSTRUCTION ENGINEERING
7979	SAFETY KLEEN CORPORATION
8020	3D DONUT
	COUNSELING & INTERVENTION STRATEGIES
	FAT FREE INTERNATIONAL
	SOPHIES BEAUTY SALON & MORE
8068	ALA PALM ANIMAL HOSPITAL
	HART F KEITH DVM ALA PALM ANIMAL HOSPITAL

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MEINES ST 1995

26998	MARRS, WILLIAM R
27000	OCCUPANT UNKNOWNN
27002	POSADAS, ANGELO
27124	FILIPINO ASSOCIATION
27184	OCCUPANT UNKNOWNN
27200	OCCUPANT UNKNOWNN
	PRIDE UTILITES
27260	HIGHLAND CRANE
	KCB TOWERS INC
	MARK J MAZZULLA GRADING CO

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-	✓	EDR Digital Archive

PALM AVE 1995

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7750	BARBER DANS
	CEE VEES LIQUOR & DELI
	COUCH POTATO VIDEO & BASEBALL
	EMIKO JAPANESE RESTAURANT
	JAPANESE ACUPRESSURE
	JAZZERCISE
	JULIOS
	OCCUPANT UNKNOWNN
	RICHSHAW BOY
7979	SAFETY KLEEN CORP
8020	3 D DONUT
	VIVA MEXICO RESTAURANT
8068	ALA PALM ANIMAL HOSPITAL

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MEINES ST 1992

26998 MARRS, WILLIAM R
27124 FILIPINO ASSN S BDO
27184 KRUSE, ED
27200 PRIDE UTILITIES
27260 HIGHLAND CRANE
MARK J MAZZULLA CO

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PALM AVE 1992

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	CEE VEE LIQUOR
	COUCH POTATO VIDEO
	EMIKO JAPANESE REST
	FIRST IMPRSSN PRNTG
	GEBBIE WM ATTY
	JAPANESE ACUPRESSRE
	JULIOS
	RICKSHAW BOY
	WEITSCHAT JO ANN
7933	KRUSE MICROWV ENTP
7979	SAFETY KLEEN CORP
8048	VIVA MEXICO RSTRNT
8068	ALA PALM ANIML HOSP

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MEINES ST 1986

MEINES 92346 HIGHLAND

26970	XXXX	00
26998	XXXX	00
27000	XXXX	00
27002	XXXX	00
27077	JOHNSON DAVID	864-7875 +6
27124	FILIPINO ASSN S BDD	862-6810
27184	PRUETT AROW SR	862-5852
27200	PEEK MARVIN	864-3487 0
27220	URIBE GONZALO	864-4075 +6
27260	MARK J MAZZULLA CO	864-7586 +6
27280	MANNING SIMON P	864-6268 +6

* 2 BUS 9 RES 4 NEW

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PALM AVE 1986

7578	THOMPSON BILLIE	862-2187	4
	THOMPSON GLENRUTH	862-2187	
7701	XXXX	00	
7716	XXXX	00	
7724	XXXX	00	
7750	BOX OFFICE VIDEO	864-8849	+8
7779	EDDIES AUTO ELEC	864-3051	5
7979	MAGOIES PUTTERY	864-2135	8
	MAGIS PUTTERY	864-2135	
	SAFETY KLEEN CORP	862-8300	9
8048	XXXX	00	
8054	MAGNUM SALES	862-4074	5
	WESTERN DIGGERS INC	862-2320	3
8068	ALA PALM ANIML HOSP	862-5111	
	HART F KEITH DVM	862-5111	
NO #	HIGHLAND CH CNSLNG	862-4127	
NO #	NIGHLAND CONGREGTNL	862-4127	
*	64 BUS 95 RES	16 NEW	

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MEINES ST 1980

MEINES 92346 HIGHLAND

26970	CASTELLANOS ROSETT	862-1733 8
27000	RUEBE LYNN	862-4611 +0
27002	XXXX	00
27077	MONTGOMERY ROBT	864-2968 +0
27124 ★	**FILIPINO ASSN S BDO**	**862-6810**
27184	PRUETT ARON SR	862-5852
27200	PEEK MARVIN	864-3487 +0
27220	YEPEZ SALVADOR L	864-3866 +0
27230	MANNING S P	862-8493
★	**MANNING TREE SERV**	**862-8493**
★	2 BUS 8 RES	4 NEW

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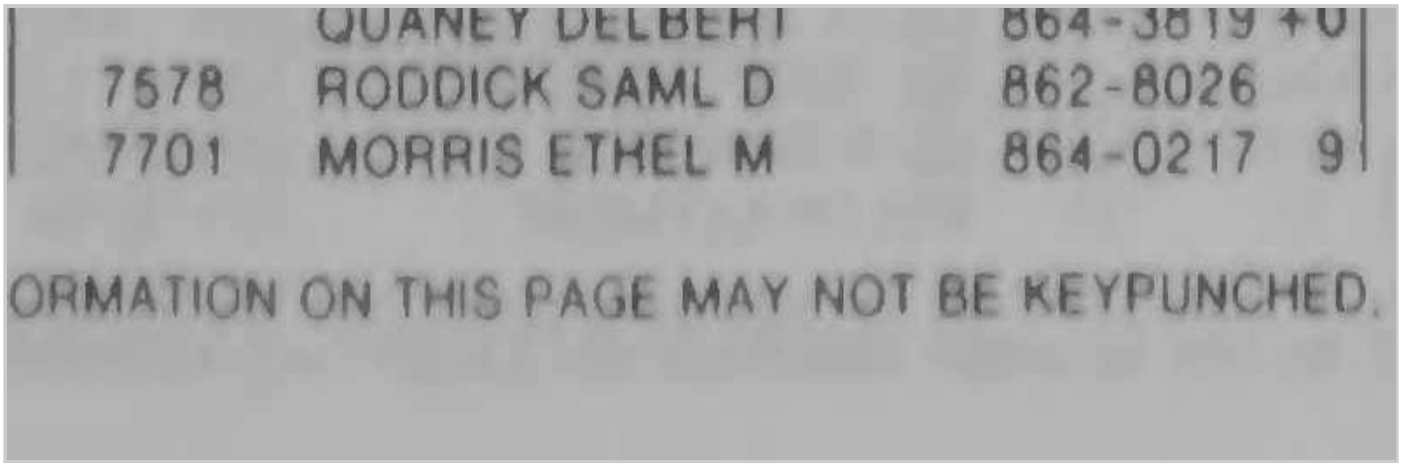

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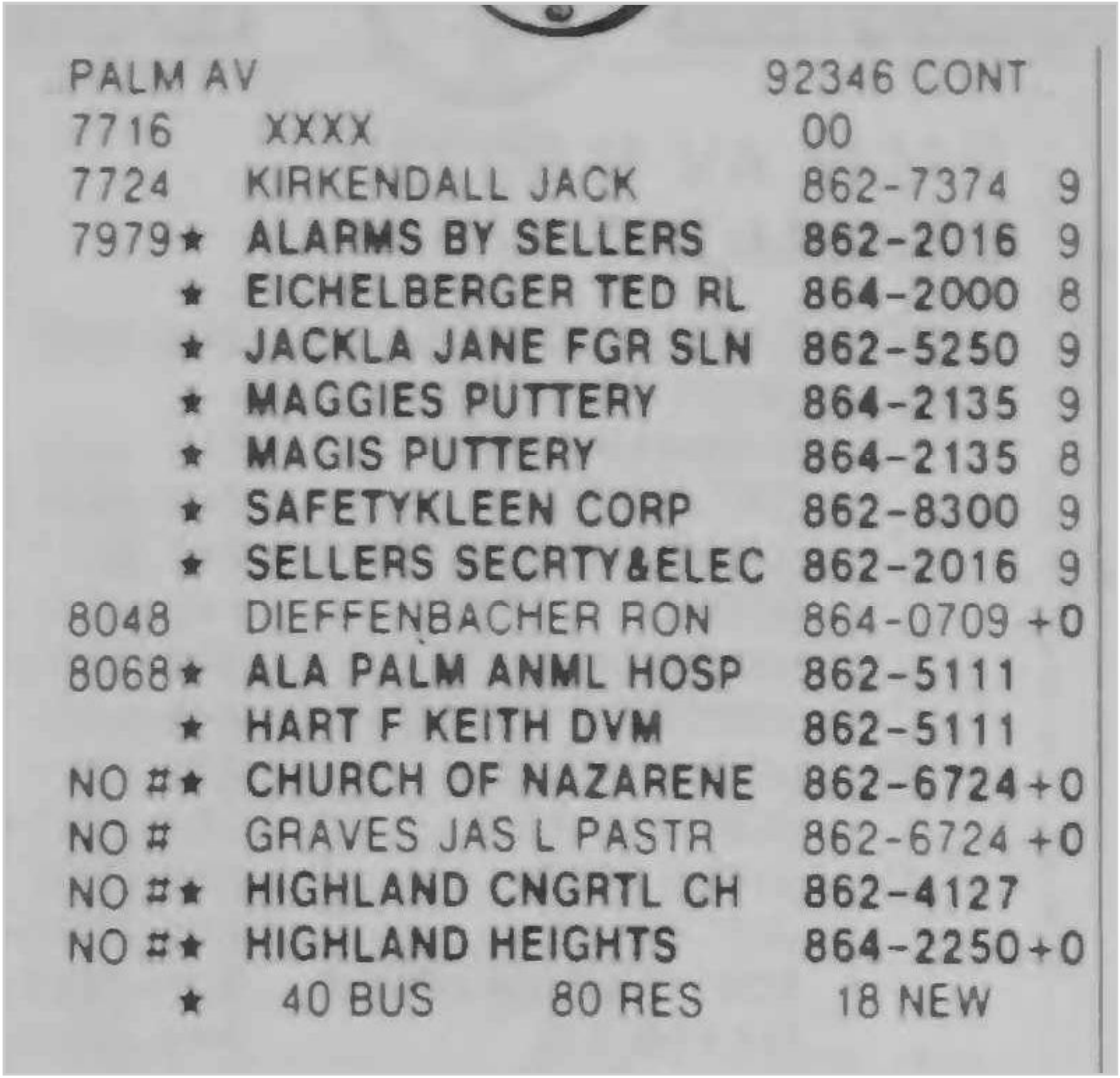

PALM AV		92346 CONT
7716	XXXX	00
7724	KIRKENDALL JACK	862-7374 9
7979 ★	ALARMS BY SELLERS	862-2016 9
★	EICHELBERGER TED RL	864-2000 8
★	JACKLA JANE FGR SLN	862-5250 9
★	MAGGIES PUTTERY	864-2135 9
★	MAGIS PUTTERY	864-2135 8
★	SAFETYKLEEN CORP	862-8300 9
★	SELLERS SECRTY&ELEC	862-2016 9
8048	DIEFFENBACHER RON	864-0709 +0
8068 ★	ALA PALM ANML HOSP	862-5111
★	HART F KEITH DVM	862-5111
NO ¤ ★	CHURCH OF NAZARENE	862-6724 +0
NO ¤	GRAVES JAS L PASTR	862-6724 +0
NO ¤ ★	HIGHLAND CNGRTL CH	862-4127
NO ¤ ★	HIGHLAND HEIGHTS	864-2250 +0
★	40 BUS 80 RES	18 NEW

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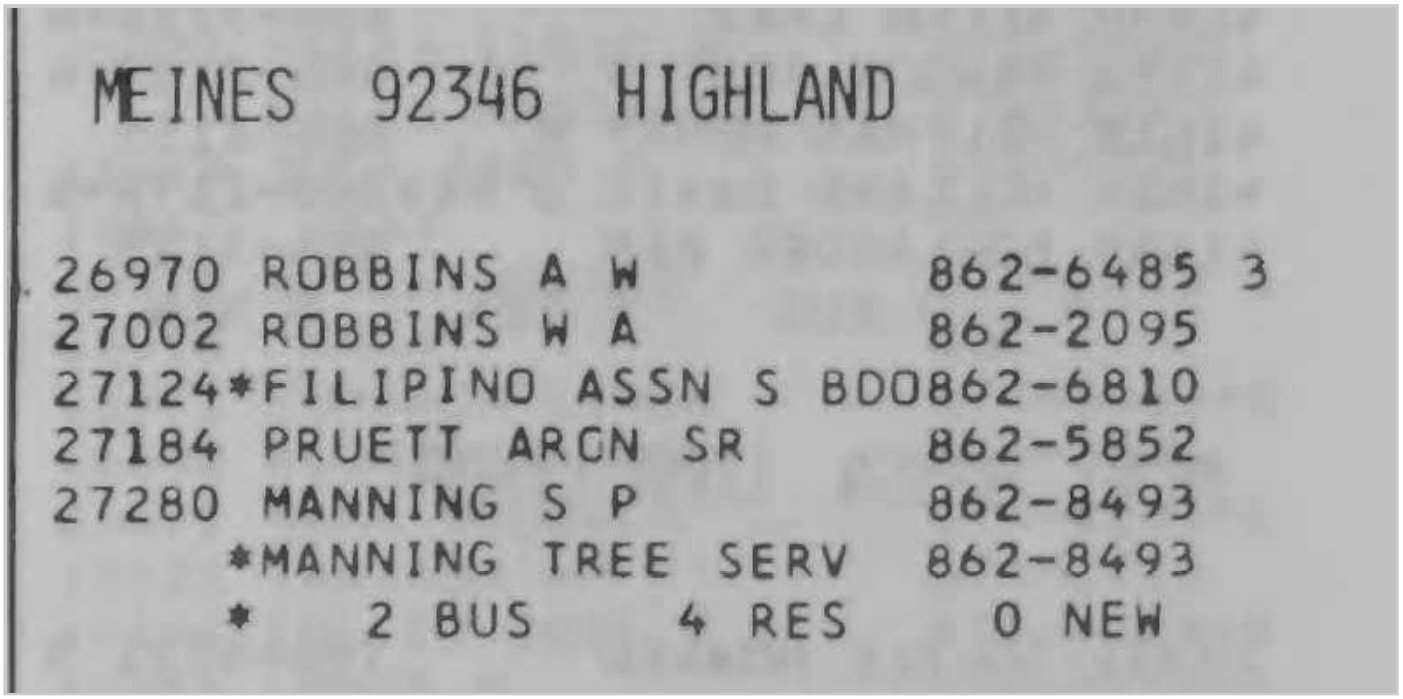
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MEINES ST 1976



MEINES 92346 HIGHLAND

26970 ROBBINS A W 862-6485 3
27002 ROBBINS W A 862-2095
27124 *FILIPINO ASSN S BDO 862-6810
27184 PRUETT ARCN SR 862-5852
27280 MANNING S P 862-8493
*MANNING TREE SERV 862-8493
* 2 BUS 4 RES 0 NEW

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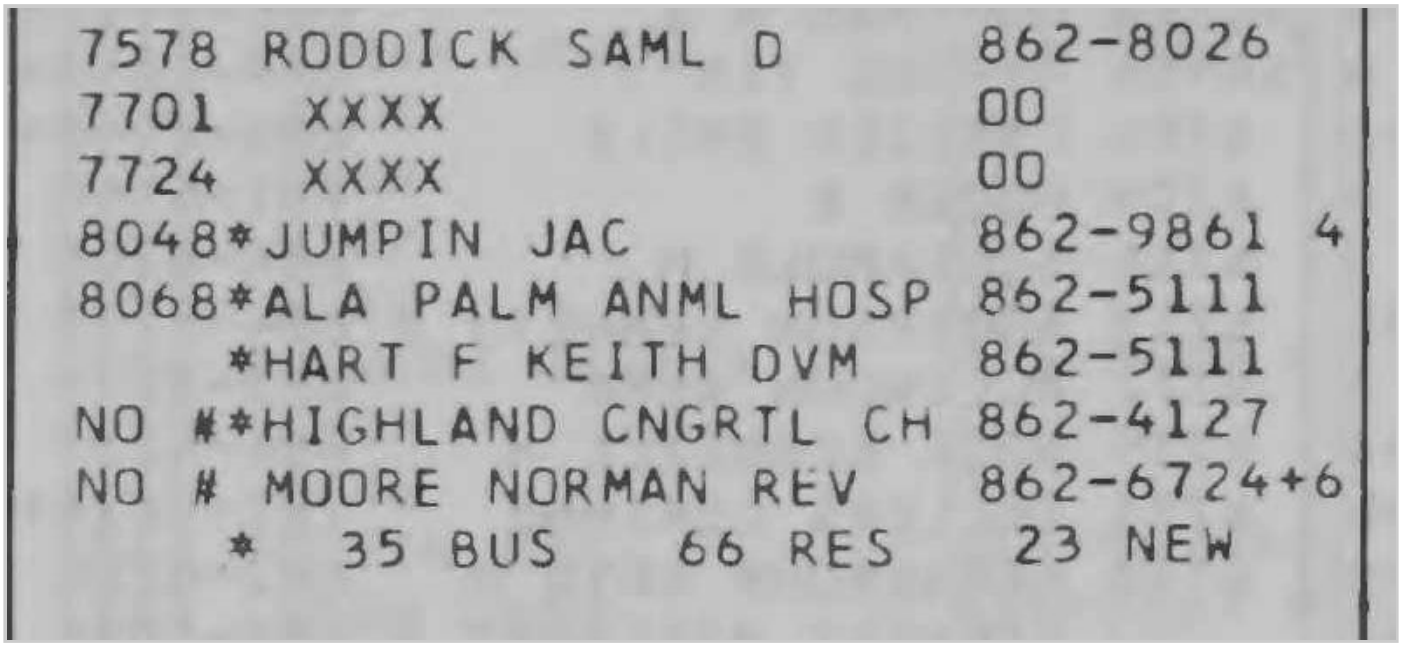
Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

PALM AVE 1976



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7578 RODDICK SAML D          862-8026
7701  XXXX                   OO
7724  XXXX                   OO
8048*JUMPIN JAC              862-9861 4
8068*ALA PALM ANML HOSP      862-5111
    *HART F KEITH DVM        862-5111
NO #*HIGHLAND CNGRTL CH      862-4127
NO # MOORE NORMAN REV        862-6724+6
    *  35 BUS   66 RES   23 NEW
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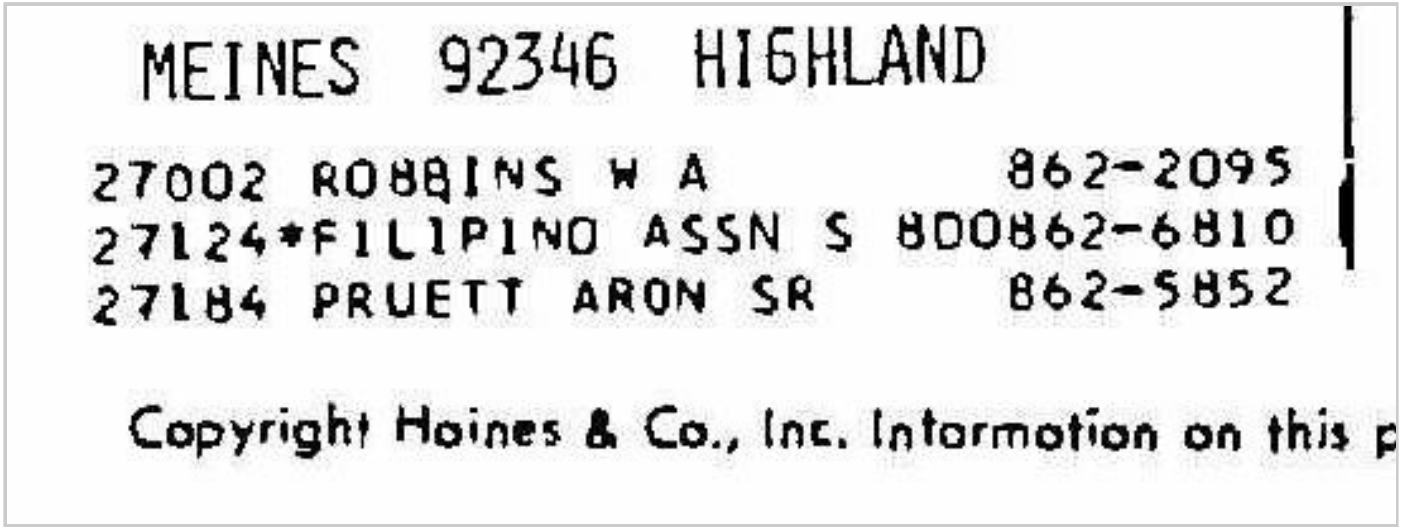
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MEINES ST 1971



MEINES 92346 HIGHLAND

27002 ROBBINS W A 862-2095
27124*FILIPINO ASSN S 800862-6810
27184 PRUETT ARON SR 862-5852

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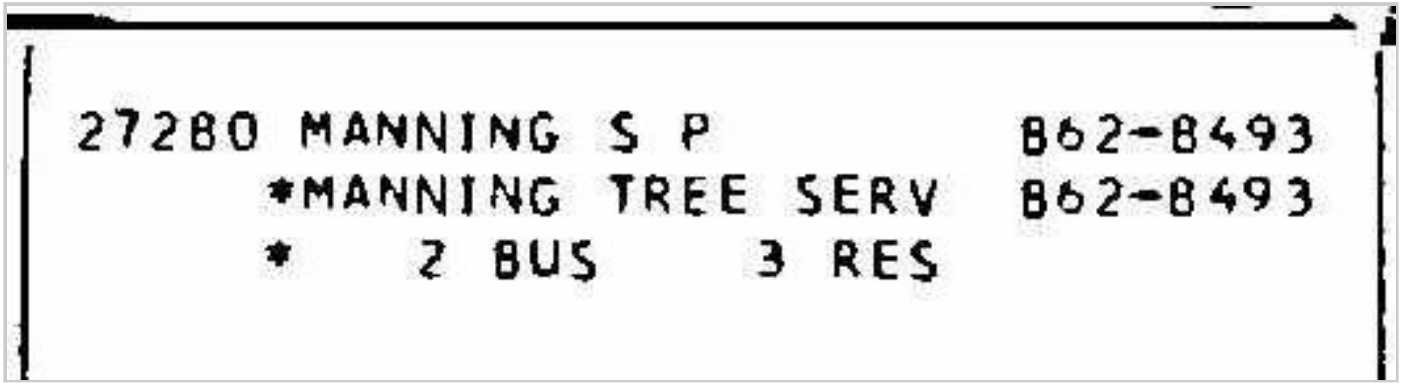
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MEINES ST 1971



27280 MANNING S P 862-8493
*MANNING TREE SERV 862-8493
* 2 BUS 3 RES

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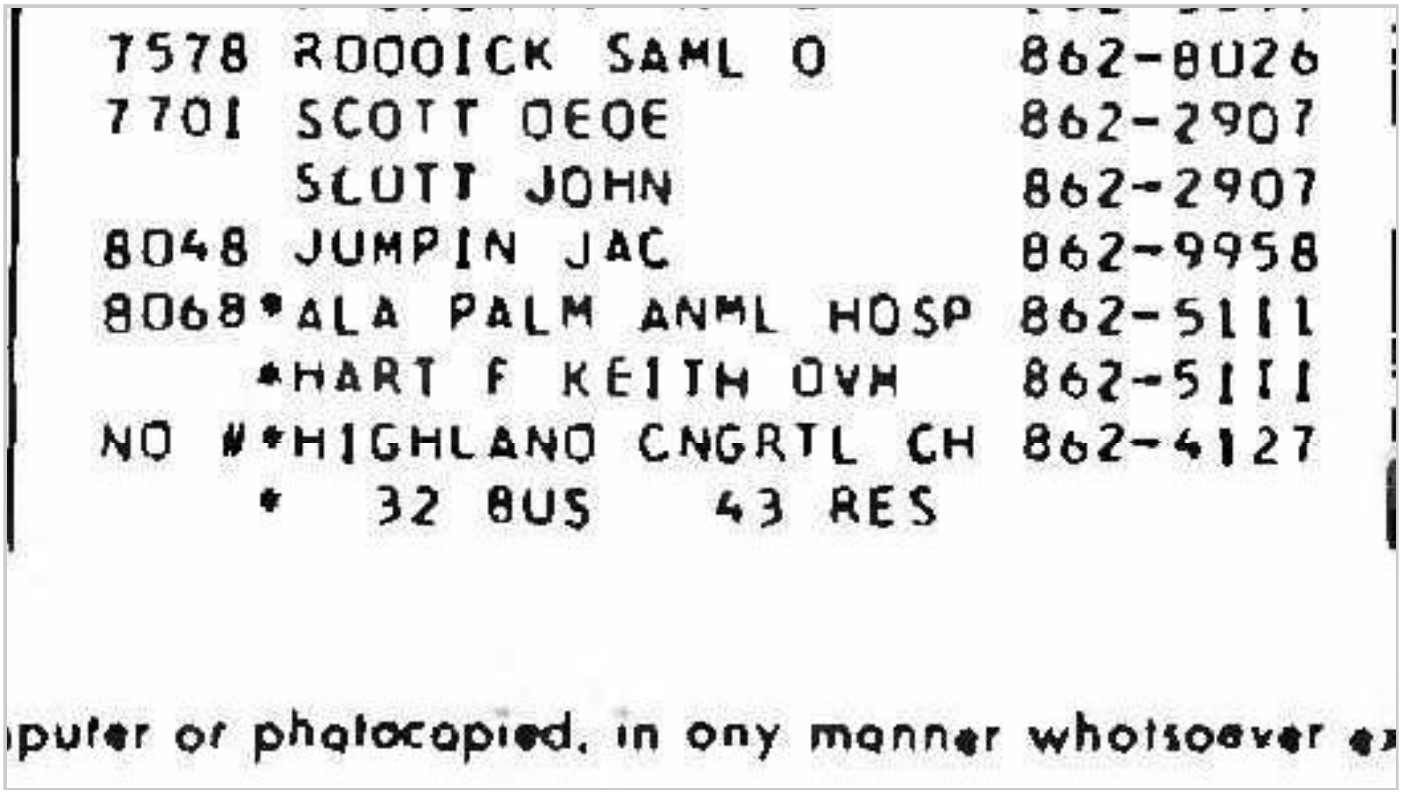
Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

PALM AVE 1971



7578 ROOOICK SAML O 862-8026
7701 SCOTT OEOE 862-2907
SCUTT JOHN 862-2907
8048 JUMPIN JAC 862-9958
8068 *ALA PALM ANML HOSP 862-5111
*HART F KEITH OVH 862-5111
NO #*HIGHLANO CNGRTL CH 862-4127
* 32 BUS 43 RES

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APPENDIX C.4
HISTORICAL FIRE INSURANCE MAPS

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Lovett Highland
27124-27280 Meines St
Highland, CA 92346

Inquiry Number: 6958529.3
April 28, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Certified Sanborn® Map Report

04/28/22

Site Name:

Lovett Highland
27124-27280 Meines St
Highland, CA 92346
EDR Inquiry # 6958529.3

Client Name:

Ramboll
18100 Von Karman Avenue
Irvine, CA 92612
Contact: Kelly Chen

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Ramboll were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 3A10-4D48-9598

PO # NA

Project NA

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 3A10-4D48-9598

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX D
USER QUESTIONNAIRE

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DocuSign Envelope ID: B97BD09E-49E1-4A2D-B1A2-F710CD100CE3

USER-PROVIDED INFORMATION REQUEST

Property Address: Meines Street & Palm Avenue

City, State: Highland, CA 92346

The Standards for All Appropriate Inquiries (AAI) (40 CFR Part 312) requires the "user" of the Phase I ESA (i.e., the party for whom the assessment is being prepared) to complete certain tasks (commonly referred to as "user responsibilities"). While the information obtained from completing these tasks is not required to be provided to the environmental professional completing the Phase I ESA, such information can assist the environmental professional identify environmental conditions associated with the property. As such, Ramboll requests your response, as the user of the Phase I ESA, to the following questions. We understand that, in some circumstances, you may have little or no information that is responsive. Still, we encourage you to complete and return the questionnaire, even if you know of no responsive information. This will allow us to reflect the fact that any information known to the user has been communicated to us.

1. **Environmental cleanup liens and Activity and Use Limitations (AULs) that are filed or recorded against the site**

   Are you aware of any environmental cleanup liens against the property or AULs that are filed or recorded under federal, tribal, state or local law?

   No

2. **Common knowledge, specialized knowledge, or experience relating to the site**

   Are you aware of any conditions on the property indicative of a release or threatened release of chemicals or petroleum products?

   No

3. **Relationship of the purchase price to the fair market value of the property**

   Do you have any reason to believe that the purchase price of the property is/will be lower than the fair market value, due to the presence of contamination?

   No

Questionnaire Completed by:

Name: Tyler Banton

Company: Lovett Industrial

Title: Lovett Industrial Representative

Date: 5/18/2022

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APPENDIX E
QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

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JOHN M PEKALA, PG, CEM

Principal

John Pekala has over 25 years of experience performing environmental due diligence and subsurface contamination assessments at a variety of commercial properties, complex industrial facilities, and redevelopment sites. John has particular expertise in the assessment and remediation of contaminated sites and the use of multidisciplinary approaches to address environmental impacts, meet regulatory requirements, and bring sites to closure. John has performed large-scale field investigations of contaminated environmental media, characterized subsurface conditions, evaluated contaminant distribution and migration, performed remedy feasibility studies, and implemented remediation plans at numerous sites under CERLCA, RCRA, and various state regulatory programs. John has performed Phase I environmental assessments, implemented community involvement programs, supported environmental litigation cases, and addressed environmental conditions at brownfield sites undergoing redevelopment. He has represented industrial clients, real estate developers, and legal professionals in project work and discussions with federal and state regulatory agencies and presented technical work to project stakeholders and the public. John is a registered professional geologist in Arizona and California and a certified environmental manager in Nevada. He currently serves on the University of Arizona Geosciences Department Alumni Advisory Board.

CONTACT INFORMATION
John M Pekala, PG, CEM

jpekala@ramboll.com
+1 (602) 7347710

Ramboll
2111 East Highland Avenue
Suite 402
Phoenix, AZ 85016

EDUCATION

1993
BS, Geosciences
University of Arizona, Tucson, Arizona

1996
MS, Geology (Coastal)
University of South Florida, Tampa, Florida

COURSES/CERTIFICATIONS

Professional Geologist - Arizona, 2007
Professional Geologist - California, 2001
Certified Environmental Manager - Nevada, 2012
OSHA 40-hour Hazardous Waste Operations and Emergency Response Standard - HAZWOPER
OSHA 8 Hour Supervisor - HAZWOPER

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SELECTED PROJECT EXPERIENCE

CERCLA Remedial Investigation and Feasibility Study, Former Rocket Fuel Manufacturing
Currently assisting an Environmental Trust to implement CERCLA environmental response actions at a 350-acre former chemical manufacturing site in Clark County, Nevada. Currently leading the implementation of a Remedial Investigation (RI) for three Operable Units within the 5,000-acre RI Study Area. The RI and subsequent feasibility study (FS) will address residual soil contamination and groundwater impacted with perchlorate, chromium, and other constituents. In a leadership role on this project, manage and direct a diverse group of project staff using multidisciplinary approaches to address environmental impacts at the Site. Concurrent with the RI, have managed the completion of a large-scale soil removal action and directed a multi-year large-scale RI field investigation; led the implementation of a community relations program; assisted in maintaining compliance with environmental permits; continue to oversee and direct a groundwater monitoring program; have acted as the Trust's liaison in overseeing the on-going activities of an on-site tenant and their manufacturing operations at the site; and represent the Trust in on-going interactions with the Nevada Division of Environmental Protection and presentations to a diverse group of project Stakeholders.

Site Characterization and Investigation, Various Sites
Responsible for conducting numerous field investigations involving collection of sediment, soil, water, and soil vapor samples; directing geophysical surveys; and installation and decommissioning of monitoring wells at various industrial, commercial, and undeveloped sites. Included management of project budgets, coordination and scheduling of subcontractors, development of sampling and health and safety plans, supervision of field personnel, oversight of field activities, sampling of environmental media for laboratory analysis, evaluation and interpretation of data, and preparation of reports documenting the investigations.

Wastewater Pond Decommissioning and Permit Compliance Support, Automotive Proving Grounds, Arizona
Implemented the decommissioning of a former wastewater pond and assisted in obtaining regulatory closure under the facility's Aquifer Protection Permit (APP). Participated in discussions with the Arizona Department of Environmental Quality (ADEQ) to present closure activities and negotiate regulatory closure.

Former Copper Mine Environmental Assessments, Southern Arizona
Assisted a bankruptcy Trustee with the assessment of environmental liabilities and site contamination for three former copper mining facilities in Southern Arizona. Provided on-site and remote support to the property owner for site management, maintenance, and security services.

Property Assessment and Demolition Assistance, Former Semiconductor Facility, Phoenix, Arizona
Assisted a real estate developer with conducting a Phase 1 Environmental Assessment and evaluation of potential impacts to the subsurface during demolition of a former Semiconductor Facility in Phoenix, Arizona. Observed demolition activities, identified site/building features which could have been the source of subsurface contamination, and assessed environmental impacts.

Environmental Due Diligence, Various Sites
Conducted Phase I environmental assessments and compliance reviews of more than 70 industrial and commercial facilities located throughout the United States. Included conducting site visits; personnel interviews; research of various agency records; review of aerial photos, topographic maps, and agency record search reports, and preparation of the Phase I reports.

Litigation Support, Environmental Insurance Coverage Cases
Provided litigation consulting in environmental insurance coverage cases involving former manufactured gas facilities and a semiconductor manufacturing facility. Included reviewing reports of previous site investigations, and evaluating subsurface hydrogeologic conditions and contaminant distributions.

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Hydrogeologic Investigation, Charnock Sub-Basin, California
Contributed to a regional hydrogeologic investigation in the Charnock Sub-Basin in Los Angeles, California. Included review of soil cores and geologic core logging, evaluation of geologic data and construction of geologic cross-sections, and interpretation of geologic data for the development of a conceptual site model. The study was designed to understand the subsurface stratigraphy and the distribution of methyl-tert-butyl-ether (MTBE), other fuel oxygenates, and other gasoline constituents in the aquifers identified in the study area.

Brownfield Redevelopment, Landfill / Burn Dump Property
Assisted a land developer with successful site acquisition and developed a conceptual plan for future site development for a former landfill / burn dump property in northern California. Included conducting a Phase I environmental site assessment and a Phase II site investigation (soil, ground water, and soil vapor sampling). Prepared a conceptual plan for future site development, estimated potential future investigation and remediation costs, conducted additional soil sampling, installed monitoring wells, and performed quarterly ground water sampling. Investigation results were used in the preparation of a report summarizing investigation activities, site and subsurface conditions, results of human health and ecological risk assessments, and proposed remedy and mitigation measures to be incorporated into site redevelopment plans. Throughout the project, supported negotiations with multiple regulatory agencies involved in the project.

Sediment Investigation, River and Bay Sediments
Managed large-scale sediment, water, and soil sampling and remote sensing field investigations in the Hackensack River in New Jersey and the Saginaw River/Bay in Michigan. These investigations provided the basis for subsequent risk assessment and engineering evaluations. Included preparation of workplan documents, planning and implementation of field activities, oversight of numerous subcontractors and ENVIRON staff from multiple regional offices, data review and analysis, and reporting of field activities and investigation results.

Brownfield Redevelopment, Former Railyard Property
Assisted a land developer with successful site acquisition, investigation, mitigation, and redevelopment of a former railyard property for multi-tenant residential use in San Francisco, California. Included conducting a Phase I environmental site assessment and a Phase II site investigation (soil and soil vapor sampling), followed by further soil vapor sampling to evaluate the potential for methane accumulation and vapor intrusion into future residential living spaces. Assisted with the design of a methane mitigation system (vapor barrier and venting system), developed a post-construction methane monitoring program, conducted agency negotiations, and provided training to property maintenance personnel to implement post-construction monitoring. Conducted dust monitoring during site redevelopment and characterized soil for proper disposal.

Groundwater Monitoring Program Implementation, Various Sites
Conducted ground water monitoring programs at sites ranging in size from small commercial facilities to a large Superfund site. Included the coordination of monitoring well sampling, management of field personnel, quality control reviews of laboratory and field activities, interpretation of ground water flow and ground water chemistry at the sites, and preparation of quarterly reports for submission to county, state, and federal agencies.

Litigation Support, Septic Systems and Leach Lines
Reviewed regulations pertaining to the abandonment, remediation, and closure of septic systems and prepared a report summarizing closure requirements pertaining to a leach line system at a site in Arizona.

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Site Characterization and Investigation, Residential Roadways and Roadbase Materials
Managed environmental sampling programs of residential roadway surfaces (wipe samples) and road base materials (intrusive sampling) used in Eastern Contra Costa County, California. Data was collected for use in subsequent risk assessment evaluations. The project included design and management of the field sampling programs, technical data evaluation, conducting project management activities, and participating in County Task Force and public meetings.

Remedial Alternatives Evaluation, Stringfellow Superfund Site, California
Involved with a variety of tasks at the Stringfellow Superfund Site in southern California. Assisted with preparation of a background investigation report and a remedial alternatives evaluation for the Site. Conducted an evaluation of the effectiveness of various landfill cover designs using the HELP model. Tasks conducted for the project also included database management, data presentation, and geologic interpretation.

Remediation of Petroleum-Impacted Soils, Former Electronics Manufacturing Facility
Managed a soil investigation and remediation project for petroleum hydrocarbon-impacted soils at a former electronics manufacturing facility in northern California. Included preparation of work plans, implementation of investigation and remediation activities, negotiation with the regulatory agency with oversight responsibility, data analysis, and reporting.

Removal of Subsurface Features and Soil Remediation, Aluminum Can Manufacturing Facility
Managed remediation projects including removal of below grade sumps at an aluminum can manufacturing plant and removal of an underground storage tank at an industrial facility.

Remediation, Public School Properties
Conducted removal actions of subsurface materials at two public schools in Eastern Contra Costa County. Included evaluation of remedial alternatives, preparation of Removal Action Workplans, implementation and oversight of remedial and restoration activities, and reporting of the activities. The work included participation in public meetings and frequent communication and negotiation with regulatory agency oversight staff.

Contaminated Sediment Characterization, European Industrial Harbor
Managed an extensive investigation of a large industrialized bay in Europe impacted with metals (particularly mercury) and other compounds to obtain an enhanced understanding of physical, biological, and chemical conditions in the bay. Data obtained in the field and from chemical, physical, and ecotoxicological testing were used to develop a hydrodynamic and sediment stability/transport model, increase our understanding of the distribution of chemicals in environmental media in the bay, and perform an ecological risk assessment. The results of this study can be used to evaluate the need to implement a remedy for impacted sediments in the bay, perform an evaluation of remedy alternatives, and assess risks associated with implementation of potential remedy plans.

Preparation of an EE/CA, Multi-Tenant Housing Development
Assisted with preparation of an Engineering Evaluation/Cost Analysis of remedial alternatives for a multi-tenant housing development in Richmond, California. Project included review of the nature and extent of lead in soil at the site, design of alternatives for remediating lead contaminated soil, and evaluation of the effectiveness of the remedial alternatives.

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PUBLICATIONS

2005

Ecological and Human Health Risk Assessments for Chemical Constituents in Hackensack River, Passaic River, and Upper Newark Bay Sediments (Part 1 of 2)

In: Remediation of Contaminated Sediments-2005: Finding Achievable Risk Reduction Solutions. Proceedings of the Third International Conference on Remediation of Contaminated Sediments. Olfenbuttel, R.G. and White, P.J. (Eds.), Battelle Press, Columbus, OH

Authors: Sorensen, M., Leitman, P., Wenning, R.J., Martello, L.B., Von Burg, A., Pekala, J., and Magar, V.

2004

Trace Metal Contamination in Hackensack River, Passaic River, and Upper Newark Bay Sediments (Part 1 of 5)

Abstract Book, Society of Environmental Toxicology and Chemistry, Fourth SETAC World Congress and 25th Annual Meeting in North America, PM143, p. 246. November

Authors: Martello, L.B., Wenning, R.J., Von Burg, A., Pekala, J., Leitman, P., and Sorensen, M.

2004

Polycyclic Aromatic Hydrocarbons Contamination in Hackensack River, Passaic River, and Upper Newark Bay Sediments (Part 2 of 5)

Abstract Book, Society of Environmental Toxicology and Chemistry, Fourth SETAC World Congress and 25th Annual Meeting in North America, PM144, p. 246. November

Authors: Sorensen, M., Wenning, R.J., Martello, L.B., Von Burg, A., Pekala, J., and Leitman, P.

2004

Polychlorinated Dibenzo-P-Dioxin, Furan, and Biphenyl Contamination in Hackensack River, Passaic River, and Upper Newark Bay Sediments (Part 3 of 5)

Abstract Book, Society of Environmental Toxicology and Chemistry, Fourth SETAC World Congress and 25th Annual Meeting in North America, PM147, p. 247. November

Authors: Wenning, R.J., Martello, L.B., Von Burg, A., Pekala, J., Leitman, P., and Sorensen, M.

2004

Pesticide Contamination in Hackensack River, Passaic River, and Upper Newark Bay Sediments (Part 4 of 5)

Abstract Book, Society of Environmental Toxicology and Chemistry, Fourth SETAC World Congress and 25th Annual Meeting in North America, PM146, p. 247. November

Authors: Martello, L.B., Wenning, R.J., Von Burg, A., Pekala, J., Leitman, P., and Sorensen, M.

2003

Barrier island stratigraphy and Holocene history of west-central Florida

Marine Geology, no. 200, pp. 103-123

Authors: Davis, Jr., R.A., K.E. Yale, J.M. Pekala, and M.V. Hamilton

1995

Stratigraphy and Geologic History of Anna Maria Island, Manatee County, Florida

US Geological Survey, West-Central Florida Coastal Studies Workshop, Open File Report 95-840

Authors: Pekala, J.M., R.A. Davis, Jr.

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1995

Stratigraphy and Geologic History of Anna Maria Island, A Drumstick Barrier Island Along the West Florida Coast

Geologic Society of America, Abstracts with Programs, vol. 27, no. 6, p. A-449

Authors: Pekala, J.M., R.A. Davis, Jr.

MEMBERSHIPS AND INVOLVEMENT IN ORGANIZATIONS

Nevada Air and Waste Management Association
Environmental Professionals of Arizona
Arizona Chamber of Commerce and Industry
University of Arizona Geosciences Alumni Advisory Board

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AMY MANION

Senior Managing Consultant

Amy Manion is a California-licensed Professional Geologist and Certified Hydrogeologist with over eleven years of experience in environmental consulting. During her time at Ramboll, she has focused on the characterization and remediation of subsurface contamination in soil, soil vapor, and groundwater. She has designed, managed, and implemented site characterization programs for properties in California and Nevada in several industries, including aerospace, metal plating, and chemical manufacturing. She has directed field investigations under the oversight of local, state, and federal environmental regulatory agencies, including installation of monitoring, injection, and extraction wells, large-scale excavations and property redevelopment, soil, soil vapor, groundwater, and indoor air sampling and monitoring, and operation and maintenance of remediation systems. Amy has developed conceptual site models, prepared remedial investigation reports, remedial action plans, treatability and feasibility studies, risk assessments, Phase I environmental site assessments, peer reviews of environmental documents, and indoor air evaluations. Prior to joining Ramboll, she worked as a staff scientist for a remediation company in New Jersey and as a laboratory assistant at a radiocarbon dating facility in Florida.

CONTACT INFORMATION
Amy Manion, PG, CHG

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+1 (213) 943 6323

Ramboll
350 S Grand Avenue
Suite 2800
Los Angeles, CA 90071
USA

CAREER

2010-Present
Ramboll US Corporation
Los Angeles, CA

2008-2010
Field Scientist / Senior Field Scientist, EWMA, LLC
Parsippany, New Jersey

2007-2008
Laboratory Assistant, Beta Analytic
Miami, Florida

EDUCATION

2004-2008
BS, Geology and Marine Science
University of Miami, Coral Gables, United States

COURSES / CERTIFICATIONS

Professional Geologist - California, 2013 to 2020
Certified Hydrogeologist - California, 2017 to 2020
OSHA 40-hour Hazardous Waste Operations and Emergency Response Standard - HAZWOPER
American Red Cross Adult CPR & First Aid Training

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PROJECTS

2018-Present
Redevelopment of Former Auto Service Station
Project Manager
Managed site investigation, excavation, and risk assessment work for a property undergoing redevelopment in Culver City, California. Conducted pre-construction soil characterization to minimize disposal fees. Evaluated the distribution of VOCs and TPH in groundwater, soil, and soil vapor as a result of impacted groundwater migrating from a neighboring property, and engaged the LARWQCB. Developed a soil management plan and supervised earthwork activities, which included monitoring soil for impacts and separation of soil for different disposal facilities. Prepared health and safety guidance related to environmental issues for all contractors working at the site, and managed a vapor intrusion and risk evaluation for future building occupants.

2017-2019
Closure for Former Gasoline and Auto Service Station
Project Manager
Worked collaboratively with the LARWQCB and within the framework of the State Water Resources Control Board's Site Cleanup Subaccount Program (SCAP) to achieve site closure for a former gasoline station and auto service center in the Koreatown neighborhood of Los Angeles. Managed the response to an investigative order from the LARWQCB, which included a subsurface investigation, groundwater monitoring, participating in strategic discussions with the LARWQCB case officer to map a road to closure, and preparation of a conceptual site model and request for closure report. The LARWQCB issued a no further action determination letter for the site under the Low Threat UST Closure Policy in March 2019, less than three years after issuing the investigative order.

2016-Present
Former Chlorate and Perchlorate Production Facility
Lead Field Geologist
Supervised a team of geologists during a 15+ month comprehensive subsurface characterization field program in Henderson, Nevada in accordance with a consent agreement with the Nevada Division of Environmental Protection (NDEP). Characterization efforts spanned an approximately 350-acre site and approximately 2.5 miles in the downgradient direction toward a municipal water source. Implemented soil logging quality control procedures, identified geologic formations and paleochannels, determined well screen intervals, and communicated results to regulators, project team members, and client representatives. Evaluated the distribution of chemicals of concern (perchlorate, chlorate, VOCs, and metals including hexavalent chromium) in the subsurface for a comprehensive remedial investigation report through the preparation of cross-sections, boring logs, and contour maps.

2014-2017
Aerospace Manufacturing Facility
Project Manager
Managed site characterization efforts at a metal plating and anodizing facility in Compton, California under a DTSC Voluntary Cleanup Agreement that included a Phase I ESA, development and implementation of a Site Characterization Work Plan, presentation of findings at the DTSC, evaluation of local and regional geology and hydrogeology, and submittal of a Site Characterization Report. Chemicals of concern included VOCs, metals including hexavalent chromium, petroleum hydrocarbons, 1,4-dioxane, and cyanide.

2010-Present
Former Metal Plating Facility
Project Manager/Geologist
Wrote and implemented several workplans for a former metal plating facility in Torrance, California with known chlorinated VOC impacts to soil and groundwater. Investigations included the use of sonic drilling with telescoping casings to locate groundwater bearing zones and semi-confining clay layers, soil vapor probe installation and soil sampling beneath the building footprint, IAQ sampling and monitoring well installation at a nearby property, and soil gas surveying with mobile and stationary laboratories using syringe and SUMMA canister sampling methods. Authored a comprehensive remedial investigation report for the site and nearby properties that provided a conceptual site model and summarized all investigations and remediation performed over a 25 year period.

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2010-2015
Former Laboratory/Testing Site
Project Geologist
Supervised a high profile drilling project in a residential neighborhood in Norco, California that included the use of ARCH drilling techniques in bedrock and utilized downhole video cameras to log rock type and fractures. Performed indoor air quality sampling, soil vapor sampling, and oversight of sub-slab depressurization system installation at neighboring residences.

2010-Present
Former Aerospace Manufacturing Site
Project Manager/Geologist
Managed and conducted semi-annual groundwater monitoring and reporting in accordance with a LARWQCB Clean-Up and Abatement Order for a former aerospace manufacturing facility in Burbank and Glendale, California impacted with hexavalent chromium and chlorinated solvents. Oversaw and reported on the installation of tensiometers for use in characterizing a sitewide clay layer. Conducted regulatory file reviews of local site remediation strategy and efficacy.

2010-2016
Former Chemical Manufacturing Facility
Project Geologist
Prepared costs, planned, and implemented several workplans to install groundwater monitoring wells, soil vapor extraction wells, and multi-depth soil vapor probes at a former chemical manufacturing facility in Vernon, California. Collected samples for VOCs and compound specific isotope analysis of chlorinated solvents, prepared geologic cross-sections, and evaluated the presence of multiple regional aquifers beneath the site.

2010-2015
Former Concrete Pipe Manufacturer
Project Geologist
Led large scale, time-sensitive excavations of TPH, VOC, and SVOC impacted soil at a former concrete pipe manufacturer in South Gate, California. Worked with the construction and development companies on the project to determine time and cost effective strategies for excavation; participated in client meetings and provided supporting documentation for client insurance claims. Oversaw the removal of part of the 24,749 tons of soil excavated from the site, and assisted in coordinating the removal of previously unknown USTs.

2011-2016
Truck Washing Facility
Project Geologist
Led subsurface investigation and remediation efforts at a truck washing facility in Carson, California under a DTSC Corrective Action Consent Agreement. Supervised the installation of 91 ozone injection wells, 29 monitoring wells, and a soil vapor extraction system, while coordinating semi-annual groundwater sampling efforts and training junior staff.

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Appendix H1

Preliminary Water Quality Management Plan

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

Conceptual Water Quality Management Plan (CWQMP) WQP22-008

For:

Meines Street Industrial Development
Meines Street and Palm Avenue
Highland, CA 92346

APN: 1192-601-05, -09, -43, 1192-621-02 through -08 and 1192-621-20 through -23

Prepared for:
Lovett Industrial
1730 E. Holly Avenue, #808
El Segundo, CA 90245
Phone: (949) 402-2760
Contact: Tyler Banton

Prepared by:
Thienes Engineering, Inc.
14349 Firestone Boulevard
La Mirada, CA 90638
Phone: (714) 521-4811
Contact: Felipe Vazquez (felipe@thieneseng.com)
Job No. 4110

Approval Date: _____
Implementation Date: _____

1st Submittal: September 12, 2022
2nd Submittal: October 12, 2022
3rd Submittal: _____

Project Owner's Certification

This Water Quality Management Plan (WQMP) has been prepared for ***Lovett Industrial*** by ***Thienes Engineering, Inc***. The WQMP is intended to comply with the requirements of the ***City of Highland*** and the NPDES Areawide Stormwater Program requiring the preparation of a WQMP.

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with the San Bernardino County's Municipal Storm Water Management Program and the intent of the NPDES Permit for San Bernardino County and the incorporated cities of San Bernardino County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors in interest and the city/county shall be notified of the transfer. The new owner will be informed of its responsibility under this WQMP. A copy of the approved WQMP shall be available on the subject site in perpetuity.

"I certify under a penalty of law that the provisions (implementation, operation, maintenance, and funding) of the WQMP have been accepted and that the plan will be transferred to future successors."

Project Data			
Permit/Application Number(s):		**Grading Permit Number(s):**	
Tract/Parcel Map Number(s):		**Building Permit Number(s):**	
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):		APN: 1192-601-05, -09, -43, 1192-621-02 through -08 and 1192-621-20 through -23	

Owner's Signature		
Owner Name: Lovett Industrial		
Contact	Tyler Banton	
Title	Senior Analyst – West Region	
Address	1730 E. Holly Avenue, #808, Los Angeles CA 90017	
Email	tyler.banton@lovettindustrial.com	
Telephone #	(949) 402-2760	
Signature	**Date**	

Preparer's Certification

Project Data			
Permit/Application Number(s):		**Grading Permit Number(s):**	
Tract/Parcel Map Number(s):		**Building Permit Number(s):**	
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):		APN: 1192-601-05, -09, -43, 1192-621-02 through -08 and 1192-621-20 through -23	

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan were prepared under my oversight and meet the requirements of Regional Water Quality Control Board Order No. R8-2010-0036."

Engineer: Reinhard Stenzel		**PE Stamp Below**
Title	Director of Engineering	
Company	Thienes Engineering, Inc.	
Address	14349 Firestone Boulevard, La Mirada, CA 90638	
Email	reinhard@thieneseng.com	
Telephone #	(714) 521-4811	
Signature		

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Attachment C: WQMP Site Map
Attachment D: WQMP and Stormwater BMP Transfer, Access and Maintenance Agreement
Attachment E: Educational Materials
Attachment F: Infiltration Report
Attachment G: HCOC
Attachment H: Phase 1 ESA (electronic)

Section 1 Discretionary Permit(s)

Form 1-1 Project Information

Project Name	Meines Street Industrial Development				
Project Owner Contact Name:	Tyler Banton				
Mailing Address:	1730 E. Holly Avenue, #808 El Segundo, CA 90245	**E-mail Address:**	tyler.banton@lovettindustrial.com	**Telephone:**	(949) 402-2760
Permit/Application Number(s):		**Tract/Parcel Map Number(s):**			
Additional Information/ Comments:	n/a				
Description of Project:	The project area encompasses approximately 13.50 acres, where 12.77 acres is onsite development and 0.73 acres is offsite disturbance. Proposed improvements to the site consist of the construction of one light industrial warehouse type building with paved loading docks north of the building. Trailer parking will be located to the north of the building. Paved vehicle parking and landscaping are located throughout the site. An underground retention facility, located in the truck yard is proposed to meet water quality requirements. While the site generally drains to Meines Street under existing conditions, the downstream portions of the street are not fully improved (no curb and gutter) and there is no existing point of connection to the existing public channel to the north (City Creek Channel). Since the site is ultimately tabled to City Creek Channel, a storm drain connection to the channel is proposed near the northwest corner of the project site. Runoff from the southerly portion of the building's roof will drain southerly into roof drains which will then be hard-lined into a proposed private storm drain conveying flows easterly along the south side of the building. The private storm drain will then be directed towards the northwest corner of the project site capturing flows from the easterly and northeast vehicle parking, the truck yard and the remainder of the building's roof. Roof drains located within the loading dock area will also be hard-lined into the proposed private storm drain. Runoff from the westerly drive aisle and vehicle parking will drain to several catch basins before being routed northerly via another proposed private storm drain. Both onsite storm drains will confluence at the northwest corner of the project site where the site will discharge offsite via a proposed public connection to City Creek Channel. Prior to discharging offsite, the DCV from the project site (not including the self-treating landscape fronting Meines Street) will be diverted (via two diversion manholes) to STC "A" located in the truck yard. The retention facility will be pretreated with a hydrodynamic separator (CDS "A"). Runoff excess of the DCV will continue draining offsite as mentioned above. Runoff from the landscape fronting Meines Street (0.47 acres) will sheet flow offsite without being routed to the underground retention facility. This landscape will be considered self-treating. The project includes street improvements along the adjoining portion of Meines Street and Palm Avenue. However, only Meines Street will receive water quality treatment since the entire street section will be disturbed (to native soils). Palm Avenues is merely grind and overlay (not to native soils) and does not trigger water quality requirements. Runoff from the northerly portion of Meines Street (approximately 0.73 acres) will drain to a proposed public catch basin located near the driveway approach. A proposed public storm drain will convey this runoff northerly through the project site and confluent with the onsite flows prior to discharging into City Creek Channel. Prior to discharging into the channel, the DCV from the portion of Meines Street will be diverted to STC "B" located in the western parking				

	area The retention facility will be pretreated with a hydrodynamic separator (CDS "B"). Runoff excess of the DCV will continue draining to the channel. The street BMPs will be privately maintained by the owner. In order to prevent the potential for backwater from the City Creek Channel into the project site and the street, a flapgate is considered at the public connection to the channel. When the water surface elevation in the channel exceeds the top of grates, the driveway will act as an emergency outlet for the onsite flows allowing runoff to the street.
Provide summary of Conceptual WQMP conditions (if previously submitted and approved). Attach complete copy.	n/a

Section 2 Project Description

2.1 Project Information

This section of the WQMP should provide the information listed below. The information provided for Conceptual/ Preliminary WQMP should give sufficient detail to identify the major proposed site design and LID BMPs and other anticipated water quality features that impact site planning. Final Project WQMP must specifically identify all BMP incorporated into the final site design and provide other detailed information as described herein.

The purpose of this information is to help determine the applicable development category, pollutants of concern, watershed description, and long term maintenance responsibilities for the project, and any applicable water quality credits. This information will be used in conjunction with the information in Section 3, Site Description, to establish the performance criteria and to select the LID BMP or other BMP for the project or other alternative programs that the project will participate in, which are described in Section 4.

Form 2.1-1 Description of Proposed Project

[1] Development Category (Select all that apply):			
☒ Significant re-development involving the addition or replacement of 5,000 ft^2 or more of impervious surface on an already developed site	☐ New development involving the creation of 10,000 ft^2 or more of impervious surface collectively over entire site	☐ Automotive repair shops with standard industrial classification (SIC) codes 5013, 5014, 5541, 7532-7534, 7536-7539	☐ Restaurants (with SIC code 5812) where the land area of development is 5,000 ft^2 or more
☐ Hillside developments of 5,000 ft^2 or more which are located on areas with known erosive soil conditions or where the natural slope is 25 percent or more	☐ Developments of 2,500 ft^2 of impervious surface or more adjacent to (within 200 ft) or discharging directly into environmentally sensitive areas or waterbodies listed on the CWA Section 303(d) list of impaired waters.	☒ Parking lots of 5,000 ft^2 or more exposed to storm water	☐ Retail gasoline outlets that are either 5,000 ft^2 or more, or have a projected average daily traffic of 100 or more vehicles per day
☐ Non-Priority / Non-Category Project *May require source control LID BMPs and other LIP requirements. Please consult with local jurisdiction on specific requirements.*			

[2] Project Area (ft^2):	588,060 (13.50 acres)*	**[3] Number of Dwelling Units:**	n/a	**[4] SIC Code:**	4225

[5] Is Project going to be phased? ☐Yes ☒No

If yes, ensure that the WQMP evaluates each phase as a distinct DA, requiring LID BMPs to address runoff at time of completion.

[6] Does Project include roads? ☐Yes ☒No

If yes, ensure that applicable requirements for road projects are addressed (see Appendix A of TGD for WQMP)

* This value consists of 12.77 acres onsite and 0.73 acres of offsite disturbance. However, 0.47 acres of landscape area sheet flows offsite as self-treating and will not be considered in the structural BMP calculations.

2.2 Property Ownership/Management

Describe the ownership/management of all portions of the project and site. State whether any infrastructure will transfer to public agencies (City, County, Caltrans, etc.) after project completion. State if a homeowners or property owners association will be formed and be responsible for the long-term maintenance of project stormwater facilities. Describe any lot-level stormwater features that will be the responsibility of individual property owners.

Form 2.2-1 Property Ownership/Management

Describe property ownership/management responsible for long-term maintenance of WQMP stormwater facilities:
Lovett Industrial 1730 E. Holly Avenue, #808 El Segundo, CA 90245 Phone: (949) 402-2760 Contact: Tyler Banton A property owner's association (POA) will not be formed for long-term maintenance of project stormwater facilities. The owner will maintain the two stormwater retention facilities as shown in Attachment D.

2.3 Potential Stormwater Pollutants

Determine and describe expected stormwater pollutants of concern based on land uses and site activities (refer to Table 3-3 in the TGD for WQMP).

Form 2.3-1 Pollutants of Concern

Pollutant	Circle One: E=Expected, N=Not Expected		Listed for Receiving Water	Additional Information and Comments
Pathogens (Bacterial / Virus)	**E**	N	X	Bacterial indicators are routinely detected in pavement runoff.
Nutrients - Phosphorous	**E**	N		Expected pollutant if landscaping exists on-site.
Nutrients - Nitrogen	**E**	N	X	Expected pollutant if landscaping exists on-site.
Noxious Aquatic Plants	**E**	N		Expected pollutant if landscaping exists on-site.
Sediment	**E**	N		Expected pollutant if landscaping exists on-site.
Metals	**E**	N	X	
Oil and Grease	**E**	N		
Trash/Debris	**E**	N		
Pesticides / Herbicides	**E**	N		
Organic Compounds	**E**	N		Expected pollutant if landscaping exists on-site. Including petroleum hydrocarbons.
Other:				

The expected POCs for the project site are ***Pathogens, Nitrogen, and Metals.***

2.4 Water Quality Credits

A water quality credit program is applicable for certain types of development projects if it is not feasible to meet the requirements for on-site LID. Proponents for eligible projects, as described below, can apply for water quality credits that would reduce project obligations for selecting and sizing other treatment BMP or participating in other alternative compliance programs. Refer to Section 6.2 in the TGD for WQMP to determine if water quality credits are applicable for the project.

Form 2.4-1 Water Quality Credits

[1] Project Types that Qualify for Water Quality Credits: *Select all that apply*			
☐ Redevelopment projects that reduce the overall impervious footprint of the project site. [Credit = % impervious reduced]	Higher density development projects ☐ Vertical density [20%] ☐ 7 units/ acre [5%]	☐ Mixed use development, (combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that demonstrate environmental benefits not realized through single use projects) [20%]	☐ Brownfield redevelopment (redevelop real property complicated by presence or potential of hazardous contaminants) [25%]
☐ Redevelopment projects in established historic district, historic preservation area, or similar significant core city center areas [10%]	☐ Transit-oriented developments (mixed use residential or commercial area designed to maximize access to public transportation) [20%]	☐ In-fill projects (conversion of empty lots & other underused spaces < 5 acres, substantially surrounded by urban land uses, into more beneficially used spaces, such as residential or commercial areas) [10%]	☐ Live-Work developments (variety of developments designed to support residential and vocational needs) [20%]
[2] Total Credit %: n/a *(Total all credit percentages up to a maximum allowable credit of 50 percent)*			
Description of Water Quality Credit Eligibility (if applicable)	n/a		

The proposed project will ***not*** utilize any water quality credits.

Section 3 Site and Watershed Description

Describe the project site conditions that will facilitate the selection of BMP through an analysis of the physical conditions and limitations of the site and its receiving waters. Identify distinct drainage areas (DA) that collect flow from a portion of the site and describe how runoff from each DA (and sub-watershed DMAs) is conveyed to the site outlet(s). Refer to Section 3.2 in the TGD for WQMP. Complete form 3.2 for each DA on the project site.

Form 3-1 Site Location and Hydrologic Features

Site coordinates *Take GPS measurement at approximate center of site*	**Latitude:** 34.109421	**Longitude:** -117.21079	**Thomas Bros Map page:** Page 577

[1] San Bernardino County climatic region: ☒Valley ☐Mountain ☐Desert

[2] Does the site have more than one drainage area (DA): ☐Yes ☒No

If no, proceed to Form 3-2. If yes, then use this form to show a conceptual schematic describing DMAs and hydrologic feature connecting DMAs to the site outlet(s). An example is provided below that can be modified for proposed project or a drawing clearly showing DMA and flow routing may be attached.

DA 1 flows to City Creek Channel	The DCV from the project site will drain to STC “A” located in the truck yard. The retention facility is pretreated with a hydrodynamic separator (CDS “A”). Runoff excess of the DCV will continue draining northerly and discharging into City Creek Channel via a proposed public connection.
DA 2 flows to City Creek Channel	The DCV from the street disturubance will drain to STC “B” located in the truck yard. The retention facility is pretreated with a hydrodynamic separator (CDS “B”). Runoff excess of the DCV will continue draining northerly and discharging into City Creek Channel via a proposed public connection.

Form 3-2 Existing Hydrologic Characteristics for Drainage Area (DA)

For each drainage area's sub-watershed DMA, provide the following characteristics	Hydrology Nodes 100-101	Hydrology Nodes 110-111	Hydrology Nodes 120-121	Hydrology Nodes 130-131	Hydrology Nodes 140-142
[1] **DMA drainage area (ft^2)**	109,336 (2.51 ac)	85,813 (1.97 ac)	85,378 (1.96 ac)	28,750 (0.66 ac)	246,985 (5.67 ac)
[2] **Existing site impervious area (ft^2)**	52,160	85,813	12,332	28,750	28,270
[3] **Antecedent moisture condition** *For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*	AMC II	AMC II	AMC II	AMC II	AMC II
[4] **Hydrologic soil group** *Refer to Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP*	HSG A	HSG A	HSG A	HSG A	HSG A
[5] **Longest flowpath length (ft)**	471	518	477	193	1,118
[6] **Longest flowpath slope (ft/ft)**	0.0106	0.0044	0.0065	0.0225	0.0094
[7] **Current land cover type(s)** *Select from Fig C-3 of Hydrology Manual*	Commercial	Commercial	Residential	Commercial	Commercial/Barren
[8] **Pre-developed pervious area condition:** *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% See Attachment A for photos of site to support rating*	Poor	Poor	Poor	Poor	Poor

Form 3-3 Watershed Description

Receiving Waters *Refer to Watershed Mapping Tool - http://sbcounty.permitrack.com/WAP* *See 'Drainage Facilities" link at this website*	City Creek Santa Ana River, Reach 5 Santa Ana River, Reach 4 Santa Ana River, Reach 3 Prado Dam Santa Ana River, Reach 2 Santa Ana River, Reach 1 Pacific Ocean
Applicable TMDLs *Refer to Local Implementation Plan*	City Creek: None Santa Ana River, Reach 5: None Santa Ana River, Reach 4: None Santa Ana River, Reach 3: Pathogens, Nitrate Prado Dam: Pathogens Santa Ana River, Reach 2: None Santa Ana River, Reach 1: None Pacific Ocean: None
303(d) listed impairments *Refer to Local Implementation Plan and Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP and State Water Resources Control Board website – http://www.waterboards.ca.gov/santaana/water_issues/programs/tmdl/index.shtml*	City Creek: None Santa Ana River, Reach 5: None Santa Ana River, Reach 4: Indicator Bacteria Santa Ana River, Reach 3: Copper, Indicator Bacteria, Lead Prado Dam: pH Santa Ana River, Reach 2: None Santa Ana River, Reach 1: None Pacific Ocean: None
Environmentally Sensitive Areas (ESA) *Refer to Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP*	n/a
Unlined Downstream Water Bodies *Refer to Watershed Mapping Tool – http://sbcounty.permitrack.com/WAP*	City Creek, Santa Ana River
Hydrologic Conditions of Concern	☐ Yes *Complete Hydrologic Conditions of Concern (HCOC) Assessment. Include Forms 4.2-2 through Form 4.2-5 and Hydromodification BMP Form 4.3-10 in submittal* ☒ No (See Attachment G for reference)
Watershed–based BMP included in a RWQCB approved WAP	☐ Yes *Attach verification of regional BMP evaluation criteria in WAP* • *More Effective than On-site LID* • *Remaining Capacity for Project DCV* • *Upstream of any Water of the US* • *Operational at Project Completion* • *Long-Term Maintenance Plan* ☒ No

Section 4 Best Management Practices (BMP)

4.1 Source Control BMP

4.1.1 Pollution Prevention

Non-structural and structural source control BMP are required to be incorporated into all new development and significant redevelopment projects. Form 4.1-1 and 4.1-2 are used to describe specific source control BMPs used in the WQMP or to explain why a certain BMP is not applicable. Table 7-3 of the TGD for WQMP provides a list of applicable source control BMP for projects with specific types of potential pollutant sources or activities. The source control BMP in this table must be implemented for projects with these specific types of potential pollutant sources or activities.

The preparers of this WQMP have reviewed the source control BMP requirements for new development and significant redevelopment projects. The preparers have also reviewed the specific BMP required for project as specified in Forms 4.1-1 and 4.1-2. All applicable non-structural and structural source control BMP shall be implemented in the project.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N1	Education of Property Owners, Tenants and Occupants on Stormwater BMPs	X		Property owner will familiarize him/herself with the educational materials in Attachment "E" and the contents of the WQMP.
N2	Activity Restrictions	X		No outdoor work areas, processing, storage or wash area. Activities are restricted to only those for which a BMP has been implemented.
N3	Landscape Management BMPs	X		Irrigation must be consistent with San Bernardino's Water Conservation Ordinance. Fertilizer and pesticide usage will be consistent with County Management Guidelines for Use of Fertilizers and Pesticides. Landscape will be inspected and maintained weekly by a qualified contractor and all landscape waste will be disposed of properly.
N4	BMP Maintenance	X		BMP maintenance, implementation schedules, and responsible parties are included with each specific BMP narrative.
N5	Title 22 CCR Compliance (How development will comply)		X	No hazardous wastes onsite.
N6	Local Water Quality Ordinances	X		Owner/tenant will be in compliance with Local Water Quality Ordinances.
N7	Spill Contingency Plan	X		Owner/tenant will have a spill contingency plan based on individual site needs.
N8	Underground Storage Tank Compliance		X	No regulated USTs onsite.
N9	Hazardous Materials Disclosure Compliance		X	No hazardous materials onsite.
N10	Uniform Fire Code Implementation	X		Owner will comply with Article 80 of the Uniform Fire Code enforced by the fire protection agency.
N11	Litter/Debris Control Program	X		Contract with their landscape maintenance firm to provide this service during regularly schedule maintenance.
N12	Employee Training	X		The owner will ensure that tenants are also familiar with onsite BMPs and necessary maintenance required of the tenants. Owner will check with City and County at least once a year to obtain new or updated educational materials and provide these materials to tenants. Employees shall be trained to clean up minor spills and participate in ongoing maintenance. The WQMP requires annual employee training and new hires within 2 months.
N13	Housekeeping of Loading Docks	X		Keep all fluids indoors. Clean up spills immediately and keep spills from entering storm drain system. No direct discharges into the storm drain system. Area shall be inspected weekly for proper containment and practices with spills cleaned up immediately and disposed of properly.
N14	Catch Basin Inspection Program	X		Monthly inspection by property owner's designee. Sumps will be vacuumed when sediment or trash becomes 2-inches deep and disposed of properly.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N15	Vacuum Sweeping of Private Streets and Parking Lots	X		All landscape maintenance contractors will be required to sweep up all landscape cuttings, mowings and fertilizer materials off paved areas weekly and dispose of properly. Parking areas and drive ways will be swept monthly by sweeping contractor.
N16	Other Non-structural Measures for Public Agency Projects		X	Not a public agency project.
N17	Comply with all other applicable NDPES permits	X		Will comply with Construction General Permit and Industrial General Permit (may apply for No Exposure Certification/NEC).

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
S1	Provide storm drain system stenciling and signage (CASQA New Development BMP Handbook SD-13)	X		"No Dumping – Drains to River" stencils will be applied. Legibility of stencil will be maintained on a yearly basis.
S2	Design and construct outdoor material storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-34)		X	No outdoor material storage areas onsite.
S3	Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	X		Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash.
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	X		Irrigation systems shall include shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. Timers will be used to avoid over watering and watering cycles and duration shall be adjusted seasonally by the landscape maintenance contractor. The landscaping areas will be grouped with plants that have similar water requirements. Native or drought tolerant species shall also be used where appropriate to reduce excess irrigation runoff and promote surface filtration.
S5	Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	X		Landscaped areas will be depressed in order to increase retention of stormwater/irrigation water and promote infiltration.
S6	Protect slopes and channels and provide energy dissipation (CASQA New Development BMP Handbook SD-10)		X	No onsite channels or slopes to protect.
S7	Covered dock areas (CASQA New Development BMP Handbook SD-31)	X		Finished goods being loaded and unloaded at the docks may have the potential to contribute to stormwater pollution in the event of a spill.
S8	Covered maintenance bays with spill containment plans (CASQA New Development BMP Handbook SD-31)		X	No maintenance bays onsite.
S9	Vehicle wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)		X	No vehicle wash areas onsite.
S10	Covered outdoor processing areas (CASQA New Development BMP Handbook SD-36)		X	No outdoor processing areas onsite.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
S11	Equipment wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)		X	No equipment wash areas onsite.
S12	Fueling areas (CASQA New Development BMP Handbook SD-30)		X	No fueling areas onsite.
S13	Hillside landscaping (CASQA New Development BMP Handbook SD-10)		X	No hillsides onsite.
S14	Wash water control for food preparation areas		X	No food preparation onsite.
S15	Community car wash racks (CASQA New Development BMP Handbook SD-33)		X	No community cars wash racks onsite.

4.1.2 Preventive LID Site Design Practices

Site design practices associated with new LID requirements in the MS4 Permit should be considered in the earliest phases of a project. Preventative site design practices can result in smaller DCV for LID BMP and hydromodification control BMP by reducing runoff generation. Describe site design and drainage plan including:

- A narrative of site design practices utilized or rationale for not using practices
- A narrative of how site plan incorporates preventive site design practices
- Include an attached Site Plan layout which shows how preventative site design practices are included in WQMP

Refer to Section 5.2 of the TGD for WQMP for more details.

Form 4.1-3 Preventive LID Site Design Practices Checklist

Site Design Practices *If yes, explain how preventative site design practice is addressed in project site plan. If no, other LID BMPs must be selected to meet targets.*	
Minimize impervious areas: ☐Yes ☒No	The project will utilize a below ground infiltration facility to collect runoff from impervious areas.
Maximize natural infiltration capacity: ☒Yes ☐No	The infiltration facility is positioned in a downstream area that will maximize the amount of stormwater collected for treatment.
Preserve existing drainage patterns and time of concentration: ☒Yes ☐No	Post-development drainage patterns will mimic pre-development conditions. The infiltration facility will assist in maintaining the existing time of concentration.
Disconnect impervious areas: ☒Yes ☐No	The infiltration facility will disconnect impervious areas before discharging offsite.
Protect existing vegetation and sensitive areas: ☐Yes ☒No	The project site was previously mass graded. No vegetation or sensitive areas to protect.
Re-vegetate disturbed areas: ☐Yes ☒No	Not applicable, development consists of a light industrial facility. Most of the disturbed areas will be paved; however, all disturbed areas will be collected by the infiltration facility for treatment. Landscape will be provided throughout the site.
Minimize unnecessary compaction in stormwater retention/infiltration basin/trench areas: ☒Yes ☐No	Heavy construction vehicles will be prohibited from unnecessary soil compaction around the infiltration facility.
Utilize vegetated drainage swales in place of underground piping or imperviously lined swales: ☐Yes ☒No	Underground piping is located at truck and car loading areas that could not be substituted with vegetated swales.
Stake off areas that will be used for landscaping to minimize compaction during construction : ☒Yes ☐No	Landscaped areas will be staked to minimize unnecessary compaction during construction.

4.2 Project Performance Criteria

The purpose of this section of the Project WQMP is to establish targets for post development hydrology based on performance criteria specified in the MS4 Permit. These targets include runoff volume for water quality control (referred to as LID design capture volume), and runoff volume, time of concentration, and peak runoff for protection of any downstream waterbody segments with a HCOC. ***If the project has more than one outlet for stormwater runoff, then complete additional versions of these forms for each DA / outlet.***

Methods applied in the following forms include:

- For LID BMP Design Capture Volume (DCV), the San Bernardino County Stormwater Program requires use of the P6 method (MS4 Permit Section XI.D.6a.ii) – Form 4.2-1
- For HCOC pre- and post-development hydrologic calculation, the San Bernardino County Stormwater Program requires the use of the Rational Method (San Bernardino County Hydrology Manual Section D). Forms 4.2-2 through Form 4.2-5 calculate hydrologic variables including runoff volume, time of concentration, and peak runoff from the project site pre- and post-development using the Hydrology Manual Rational Method approach. For projects greater than 640 acres (1.0 mi2), the Rational Method and these forms should not be used. For such projects, the Unit Hydrograph Method (San Bernardino County Hydrology Manual Section E) shall be applied for hydrologic calculations for HCOC performance criteria.

Refer to Section 4 in the TGD for WQMP for detailed guidance and instructions.

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 1)

[1] **Project area (ft^2):** 535,788 (12.30 ac.)	[2] **Imperviousness after applying preventative site design practices (Imp%):** 90%	[3] **Runoff Coefficient (R_c):** 0.730 *$R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$*
[4] **Determine 1-hour rainfall depth for a 2-year return period $P_{2yr-1hr}$ (in):** 0.512 *http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html*		
[5] **Compute P6, Mean 6-hr Precipitation (inches):** 0.758 *P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1* *(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		
[6] **Drawdown Rate** *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☒
[7] **Compute design capture volume, DCV (ft^3):** 48,524 *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 2 – STREET)

[1] **Project area (ft^2):** 31,799 (0.73 ac.)	[2] **Imperviousness after applying preventative site design practices (Imp%):** 90%	[3] **Runoff Coefficient (R_c):** 0.730 *$R_C = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$*
[4] **Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in):** 0.512 *http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html*		
[5] **Compute P6, Mean 6-hr Precipitation (inches):** 0.758 *P6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1* *(Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		
[6] **Drawdown Rate** *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☒
[7] **Compute design capture volume, DCV (ft^3):** 2,880 *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		

[1] Refer to Attachment B for detailed calculations. These totaled value does not include 0.47 acres of self-treating landscape area that sheet flow offsite without being routed to the onsite retention facilities for treatment.

Form 4.2-2 Summary of HCOC Assessment

Does project have the potential to cause or contribute to an HCOC in a downstream channel: ☐Yes ☒No

Go to: http://sbcounty.permitrack.com/WAP/

If "Yes", then complete HCOC assessment of site hydrology for 2yr storm event using Forms 4.2-3 through 4.2-5 and insert results below (Forms 4.2-3 through 4.2-5 may be replaced by computer software analysis based on the San Bernardino County Hydrology Manual)

If "No," then proceed to Section 4.3 Project Conformance Analysis

Condition	Runoff Volume (ft^3)	Time of Concentration (min)	Peak Runoff (cfs)
Pre-developed	[1] n/a *Form 4.2-3 Item 12*	[2] n/a *Form 4.2-4 Item 13*	[3] n/a *Form 4.2-5 Item 10*
Post-developed	[4] n/a *Form 4.2-3 Item 13*	[5] n/a *Form 4.2-4 Item 14*	[6] n/a *Form 4.2-5 Item 14*
Difference	[7] n/a *Item 4 – Item 1*	[8] n/a *Item 5 – Item 2*	[9] n/a *Item 6 – Item 3*
Difference (as % of pre-developed)	[10] n/a *Item 7 / Item 1*	[11] n/a *Item 8 / Item 2*	[12] n/a *Item 9 / Item 3*

Form 4.2-3 HCOC Assessment for Runoff Volume

Compute weighted curve number for pre and post developed conditions	Pre-developed DA *Add more columns if more than 4 DMA*				Post-developed DA *Add more columns if more than 4 DMA*			
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[1] Land Cover type	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[2] Hydrologic Soil Group (HSG)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[3] DMA Area, ft^2 *sum of areas of DMA should equal area of DA*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
[4] Curve Number (CN) *Use Items 1 and 2 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	[5] Pre-Developed area-weighted CN:				[6] Post-Developed area-weighted CN:			
	[7] Pre-developed soil storage capacity, S (in): *S = (1000 / Item 5) - 10*				[8] Post-developed soil storage capacity, S (in): *S = (1000 / Item 6) – 10*			
	[9] Initial abstraction, I_a (in): *I_a = 0.2 * Item 7*				[10] Initial abstraction, I_a (in): *I_a = 0.2 * Item 8*			
[11] Precipitation for 2 yr, 24 hr storm (in): *Go to: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html*								
[12] Pre-developed Volume (ft^3): *V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 9)^2 / ((Item 11 – Item 9 + Item 7)*								
[13] Post-developed Volume (ft^3): *V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 10)^2 / ((Item 11 – Item 10 + Item 8)*								
[14] Volume Reduction needed to meet HCOC Requirement, (ft^3): *V_{HCOC} = (Item 13 * 0.95) – Item 12*								

Form 4.2-4 HCOC Assessment for Time of Concentration

Compute time of concentration for pre and post developed conditions for each DA *(For projects using the Hydrology Manual complete the form below)*

Variables	Pre-developed DA *Add more columns if more than 4 DMA*			Post-developed DA *Add more columns if more than 4 DMA*		
	n/a	n/a	n/a	n/a	n/a	n/a
[1] Length of flowpath (ft) *Use Form 3-2 Item 5 for pre-developed condition*	n/a	n/a	n/a	n/a	n/a	n/a
[2] Change in elevation (ft)	n/a	n/a	n/a	n/a	n/a	n/a
[3] Slope (ft/ft), So = Item 2 / Item 1	n/a	n/a	n/a	n/a	n/a	n/a
[4] Land cover	n/a	n/a	n/a	n/a	n/a	n/a
[5] Initial DMA Time of Concentration (min) *Appendix C-1 of the TGD for WQMP*	n/a	n/a	n/a	n/a	n/a	n/a
[6] Length of conveyance from DMA outlet to project site outlet (ft) *May be zero if DMA outlet is at project site outlet*	n/a	n/a	n/a	n/a	n/a	n/a
[7] Cross-sectional area of channel (ft2)	n/a	n/a	n/a	n/a	n/a	n/a
[8] Wetted perimeter of channel (ft)	n/a	n/a	n/a	n/a	n/a	n/a
[9] Manning's roughness of channel (n)	n/a	n/a	n/a	n/a	n/a	n/a
[10] Channel flow velocity (ft/sec) $V_{fps} = (1.49 / \text{Item 9}) * (\text{Item 7}/\text{Item 8})^{0.67} * (\text{Item 3})^{0.5}$	n/a	n/a	n/a	n/a	n/a	n/a
[11] Travel time to outlet (min) $T_t = \text{Item 6} / (\text{Item 10} * 60)$	n/a	n/a	n/a	n/a	n/a	n/a
[12] Total time of concentration (min) $T_c = \text{Item 5} + \text{Item 11}$	n/a	n/a	n/a	n/a	n/a	n/a
[13] Pre-developed time of concentration (min): *Minimum of Item 12 pre-developed DMA*						
[14] Post-developed time of concentration (min): *Minimum of Item 12 post-developed DMA*						
[15] Additional time of concentration needed to meet HCOC requirement (min): $T_{C\text{-}HCOC} = (\text{Item 14} * 0.95) - \text{Item 13}$						

Form 4.2-5 HCOC Assessment for Peak Runoff

Compute peak runoff for pre and post developed conditions

Variables		Pre-developed DA *Add more columns if more than 3 DMA*			Post-developed DA *Add more columns if more than 3 DMA*		
		n/a	**n/a**	**n/a**	**n/a**	**n/a**	**n/a**
[1] **Rainfall Intensity for storm duration equal to time of concentration** *I_{peak} = 10^(LOG Form 4.2-1 Item 4 - 0.6 LOG Form 4.2-4 Item 5 /60)*		n/a	n/a	n/a	n/a	n/a	n/a
[2] **Drainage Area of each DMA (ft2)** *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		n/a	n/a	n/a	n/a	n/a	n/a
[3] **Ratio of pervious area to total area** *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		n/a	n/a	n/a	n/a	n/a	n/a
[4] **Pervious area infiltration rate (in/hr)** *Use pervious area CN and antecedent moisture condition with Appendix C-3 of the TGD for WQMP*		n/a	n/a	n/a	n/a	n/a	n/a
[5] **Maximum loss rate (in/hr)** *F_m = Item 3 * Item 4* *Use area-weighted Fm from DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		n/a	n/a	n/a	n/a	n/a	n/a
[6] **Peak Flow from DMA (cfs)** *Q_p =Item 2 * 0.9 * (Item 1 - Item 5)*		n/a	n/a	n/a	n/a	n/a	n/a
[7] **Time of concentration adjustment factor for other DMA to site discharge point** *Form 4.2-4 Item 12 DMA / Other DMA upstream of site discharge point (If ratio is greater than 1.0, then use maximum value of 1.0)*	**DMA A**	*n/a*			*n/a*		
	DMA B		*n/a*			*n/a*	
	DMA C			*n/a*			*n/a*

[8] **Pre-developed Q_p at T_c for DMA A:**	[9] **Pre-developed Q_p at T_c for DMA B:**	[10] **Pre-developed Q_p at T_c for DMA C:**
*Q_p = Item 6_{DMAA} + [Item 6_{DMAB} * (Item 1_{DMAA} – Item 5_{DMAB}) / (Item 1_{DMAB} - Item 5_{DMAB}) * Item $7_{DMAA/2}$] + [Item 6_{DMAC} * (Item 1_{DMAA} - Item 5_{DMAC}) / (Item 1_{DMAC} - Item 5_{DMAC}) * Item $7_{DMAA/3}$]*	*Q_p = Item 6_{DMAB} + [Item 6_{DMAA} * (Item 1_{DMAB} – Item 5_{DMAA}) / (Item 1_{DMAA} - Item 5_{DMAA}) * Item $7_{DMAB/1}$] + [Item 6_{DMAC} * (Item 1_{DMAB} - Item 5_{DMAC}) / (Item 1_{DMAC} - Item 5_{DMAC}) * Item $7_{DMAB/3}$]*	*Q_p = Item 6_{DMAC} + [Item 6_{DMAA} * (Item 1_{DMAC} – Item 5_{DMAA}) / (Item 1_{DMAA} - Item 5_{DMAA}) * Item $7_{DMAC/1}$] + [Item 6_{DMAB} * (Item 1_{DMAC} - Item 5_{DMAB}) / (Item 1_{DMAB} - Item 5_{DMAB}) * Item $7_{DMAC/2}$]*

11 Peak runoff from pre-developed condition confluence analysis (cfs): *Maximum of Item 8, 9, and 10*		
12 Post-developed Q_p at T_c for DMA A: *Same as Item 8 for post-developed values*	***13 Post-developed Q_p at T_c for DMA B:*** *Same as Item 9 for post-developed values*	***14 Post-developed Q_p at T_c for DMA C:*** *Same as Item 10 for post-developed values*
15 Peak runoff from post-developed condition confluence analysis (cfs): *Maximum of Item 12, 13, and 14*		
16 Peak runoff reduction needed to meet HCOC Requirement (cfs): *$Q_{p\text{-}HCOC}$ = (Item 14 * 0.95) – Item 11*		

4.3 Project Conformance Analysis

Complete the following forms for each project site DA to document that the proposed LID BMPs conform to the project DCV developed to meet performance criteria specified in the MS4 Permit (WQMP Template Section 4.2). For the LID DCV, the forms are ordered according to hierarchy of BMP selection as required by the MS4 Permit (see Section 5.3.1 in the TGD for WQMP). The forms compute the following for on-site LID BMP:

- Site Design and Hydrologic Source Controls (Form 4.3-2)
- Retention and Infiltration (Form 4.3-3)
- Harvested and Use (Form 4.3-4) or
- Biotreatment (Form 4.3-5).

At the end of each form, additional fields facilitate the determination of the extent of mitigation provided by the specific BMP category, allowing for use of the next category of BMP in the hierarchy, if necessary.

The first step in the analysis, using Section 5.3.2.1 of the TGD for WQMP, is to complete Forms 4.3-1 and 4.3-3) to determine if retention and infiltration BMPs are infeasible for the project. For each feasibility criterion in Form 4.3-1, if the answer is "Yes," provide all study findings that includes relevant calculations, maps, data sources, etc. used to make the determination of infeasibility.

Next, complete Forms 4.3-2 and 4.3-4 to determine the feasibility of applicable HSC and harvest and use BMPs, and, if their implementation is feasible, the extent of mitigation of the DCV.

If no site constraints exist that would limit the type of BMP to be implemented in a DA, evaluate the use of combinations of LID BMPs, including all applicable HSC BMPs to maximize on-site retention of the DCV. If no combination of BMP can mitigate the entire DCV, implement the single BMP type, or combination of BMP types, that maximizes on-site retention of the DCV within the minimum effective area.

If the combination of LID HSC, retention and infiltration, and harvest and use BMPs are unable to mitigate the entire DCV, then biotreatment BMPs may be implemented by the project proponent. If biotreatment BMPs are used, then they must be sized to provide sufficient capacity for effective treatment of the remainder of the volume-based performance criteria that cannot be achieved with LID BMPs (TGD for WQMP Section 5.4.4.2). Under no circumstances shall any portion of the DCV be released from the site without effective mitigation and/or treatment.

Form 4.3-1 Infiltration BMP Feasibility

Feasibility Criterion – Complete evaluation for each DA on the Project Site
[1] **Would infiltration BMP pose significant risk for groundwater related concerns?** ☐Yes ☒No *Refer to Section 5.3.2.1 of the TGD for WQMP*
If Yes, Provide basis: (attach)
[2] **Would installation of infiltration BMP significantly increase the risk of geotechnical hazards?** ☐Yes ☒No *(Yes, if the answer to any of the following questions is yes, as established by a geotechnical expert):* • *The location is less than 50 feet away from slopes steeper than 15 percent* • *The location is less than eight feet from building foundations or an alternative setback.* • *A study certified by a geotechnical professional or an available watershed study determines that stormwater infiltration would result in significantly increased risks of geotechnical hazards.*
If Yes, Provide basis: (attach)
[3] **Would infiltration of runoff on a Project site violate downstream water rights?** ☐Yes ☒No
If Yes, Provide basis: (attach)
[4] **Is proposed infiltration facility located on hydrologic soil group (HSG) D soils or does the site geotechnical investigation indicate presence of soil characteristics, which support categorization as D soils?** ☐Yes ☒No
If Yes, Provide basis: (attach)
[5] **Is the design infiltration rate, after accounting for safety factor of 2.0, below proposed facility less than 0.3 in/hr (accounting for soil amendments)?** ☐Yes ☒No
If Yes, Provide basis: (attach)
[6] **Would on-site infiltration or reduction of runoff over pre-developed conditions be partially or fully inconsistent with watershed management strategies as defined in the WAP, or impair beneficial uses?** ☐Yes ☒No *See Section 3.5 of the TGD for WQMP and WAP*
If Yes, Provide basis: (attach)
[7] **Any answer from Item 1 through Item 3 is "Yes":** ☐Yes ☒No *If yes, infiltration of any volume is not feasible onsite. Proceed to Form 4.3-4, Harvest and Use BMP. If no, then proceed to Item 9 below.*
[8] **Any answer from Item 4 through Item 6 is "Yes":** ☐Yes ☒No *If yes, infiltration is permissible but is not required to be considered. Proceed to Form 4.3-2, Hydrologic Source Control BMP.* *If no, then proceed to Item 9, below.*
[9] **All answers to Item 1 through Item 6 are "No":** ☒Yes ☐No *Infiltration of the full DCV is potentially feasible, LID infiltration BMP must be designed to infiltrate the full DCV to the MEP.* *Proceed to Form 4.3-2, Hydrologic Source Control BMP.*

4.3.1 Site Design Hydrologic Source Control BMP

Section XI.E. of the Permit emphasizes the use of LID preventative measures; and the use of LID HSC BMPs reduces the portion of the DCV that must be addressed in downstream BMPs. Therefore, all applicable HSC shall be provided except where they are mutually exclusive with each other, or with other BMPs. Mutual exclusivity may result from overlapping BMP footprints such that either would be potentially feasible by itself, but both could not be implemented. Please note that while there are no numeric standards regarding the use of HSC, if a project cannot feasibly meet BMP sizing requirements or cannot fully address HCOCs, feasibility of all applicable HSC must be part of demonstrating that the BMP system has been designed to retain the maximum feasible portion of the DCV. Complete Form 4.3-2 to identify and calculate estimated retention volume from implementing site design HSC BMP. Refer to Section 5.4.1 in the TGD for more detailed guidance.

Form 4.3-2 Site Design Hydrologic Source Control BMPs

[1] Implementation of Impervious Area Dispersion BMP (i.e. routing runoff from impervious to pervious areas), excluding impervious areas planned for routing to on-lot infiltration BMP): ☐Yes ☒No *If yes, complete Items 2-5; If no, proceed to Item 6*			
Variables *Aggregate impervious area dispersion with equal ratios of pervious to impervious;*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[2] Total impervious area draining to pervious area			
[3] Ratio of pervious area receiving runoff to impervious area			
[4] Retention volume achieved from impervious area dispersion (ft^3) *V = Item2 * Item 3 * (0.5/12), assuming retention of 0.5 inches of runoff*			
[5] Sum of retention volume achieved from impervious area dispersion (ft^3): *$V_{retention}$ = Sum of Item 4 for all BMPs*			
[6] Implementation of Localized On-lot Infiltration BMPs (e.g. on-lot rain gardens): ☐Yes ☒No *If yes, complete Items 7-13 for aggregate of all on-lot infiltration BMP in each DA; If no, proceed to Item 14*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[7] Ponding surface area (ft^2)			
[8] Ponding depth (ft)			
[9] Surface area of amended soil/gravel (ft^2)			
[10] Average depth of amended soil/gravel (ft)			
[11] Average porosity of amended soil/gravel			
[12] Retention volume achieved from on-lot infiltration (ft^3) *$V_{retention}$ = (Item 7 *Item 8) + (Item 9 * Item 10 * Item 11)*			
[13] Runoff volume retention from on-lot infiltration (ft^3): *$V_{retention}$ = Sum of Item 12 for all BMPs*			
[14] Implementation of evapotranspiration BMP (green, brown, or blue roofs): ☐Yes ☒No *If yes, complete Items 15-20. If no, proceed to Item 21*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[15] Rooftop area planned for ET BMP (ft^2)			
[16] Average wet season ET demand (in/day) *Use local values, typical ~ 0.1*			
[17] Daily ET demand (ft^3/day) *Item 15 * (Item 16 / 12)*			
[18] Drawdown time (hrs) *Copy Item 6 in Form 4.2-1*			
[19] Retention Volume (ft^3) *$V_{retention}$ = Item 17 * (Item 18 / 24)*			
[20] Runoff volume retention from evapotranspiration BMPs (ft^3): *V = Sum of Item 19 for all BMPs*			
[21] Implementation of Street Trees: ☐Yes ☒No *If yes, complete Items 20-2. If no, proceed to Item 26*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[22] Number of Street Trees			
[23] Average canopy cover over impervious area (ft^2)			
[24] Runoff volume retention from street trees (ft^3) *$V_{retention}$ = Item 22 * Item 23 * (0.05/12) assume runoff retention of 0.05 inches*			
[25] Runoff volume retention from street tree BMPs (ft^3): *$V_{retention}$ = Sum of Item 24 for all BMPs*			
[26] Implementation of residential rain barrels/cisterns: ☐Yes ☒No *If yes, complete Items 27-28; If no, proceed to Item 30*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[27] Number of rain barrels/cisterns			
[28] Runoff volume retention from rain barrels/cisterns (ft^3) *$V_{retention}$ = Item 27 * 3*			
[29] Runoff volume retention from residential rain barrels/Cisterns (ft^3): *$V_{retention}$ =Sum of Item 28 for all BMPs*			
[30] Total Retention Volume from Site Design Hydrologic Source Control BMPs: 0 *Sum of Items 5, 13, 20, 25 and 29*			

4.3.2 Infiltration BMPs

Use Form 4.3-3 to compute on-site retention of runoff from proposed retention and infiltration BMPs. Volume retention estimates are sensitive to the percolation rate used, which determines the amount of runoff that can be infiltrated within the specified drawdown time. The infiltration safety factor reduces field measured percolation to account for potential inaccuracy associated with field measurements, declining BMP performance over time, and compaction during construction. Appendix D of the TGD for WQMP provides guidance on estimating an appropriate safety factor to use in Form 4.3-3.

If site constraints limit the use of BMPs to a single type and implementation of retention and infiltration BMPs mitigate no more than 40% of the DCV, then they are considered infeasible and the Project Proponent may evaluate the effectiveness of BMPs lower in the LID hierarchy of use (Section 5.5.1 of the TGD for WQMP).

If implementation of infiltrations BMPs is feasible as determined using Form 4.3-1, then LID infiltration BMPs shall be implemented to the MEP (section 4.1 of the TGD for WQMP).

Form 4.3-3 Infiltration LID BMP (including underground BMPs)
DA 1

[1] Remaining LID DCV not met by site design HSC BMP (ft^3): 48,524
V = Form 4.2-1 Item 7 - Form 4.3-2 Item 30

BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP)*	**DA 1** **STC "A"**	**n/a**	**n/a**
[2] Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*	13.3	n/a	n/a
[3] Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*	3.375	n/a	n/a
[4] Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*	2.4	n/a	n/a
[5] Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*	48	n/a	n/a
[6] Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*	5.15' (61.8")	n/a	n/a
[7] Ponding Depth (ft) *d_{BMP} = Minimum of (1/12 * Item 4 * Item 5) or Item 6*	5.15' (61.8")	n/a	n/a
[8] Infiltrating surface area, SA (ft^2) *The lesser of the area needed for BMP infiltration of full DCV or minimum space requirements from Table 5-7 of the TGD for WQMP*	11,889	n/a	n/a
[9] Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*	n/a	n/a	n/a
[10] Amended soil porosity	n/a	n/a	n/a
[11] Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*	2.5' (30")	n/a	n/a
[12] Gravel porosity	0.40	n/a	n/a
[13] Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*	3	n/a	n/a
[14] Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 retention * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*	n/a	n/a	n/a
[15] Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*	48,553 (See Attach. B for detailed calculations)	n/a	n/a

[16] Total Retention Volume from LID Infiltration BMPs (ft^3): 48,553
(Sum of Items 14 and 15 for all infiltration BMP included in plan)

[17] Fraction of DCV achieved with infiltration BMP: 100%
Retention% = Item 16 / Form 4.2-1 Item 7

[18] Is full LID DCV retained on-site with combination of hydrologic source control and LID retention and infiltration BMPs?
☒Yes ☐No
If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.

Form 4.3-3 Infiltration LID BMP (including underground BMPs)
DA 2 – STREET

[1] Remaining LID DCV not met by site design HSC BMP (ft^3): 2,880
V = Form 4.2-1 Item 7 - Form 4.3-2 Item 30

BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP)*	**DA 2** **STC "B"**	**n/a**	**n/a**
[2] Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*	8.2	n/a	n/a
[3] Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*	2.625	n/a	n/a
[4] Design percolation rate (in/hr) P_{design} *= Item 2 / Item 3*	3.12	n/a	n/a
[5] Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*	48	n/a	n/a
[6] Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*	5.15' (61.8")	n/a	n/a
[7] Ponding Depth (ft) d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*	5.15' (61.8")	n/a	n/a
[8] Infiltrating surface area, SA (ft^2) *The lesser of the area needed for BMP infiltration of full DCV or minimum space requirements from Table 5-7 of the TGD for WQMP*	805	n/a	n/a
[9] Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*	n/a	n/a	n/a
[10] Amended soil porosity	n/a	n/a	n/a
[11] Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*	2.5' (30")	n/a	n/a
[12] Gravel porosity	0.40	n/a	n/a
[13] Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*	3	n/a	n/a
[14] Above Ground Retention Volume (ft^3) $V_{retention}$ *= Item 8 * [Item7 + (Item 9 retention * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*	n/a	n/a	n/a
[15] Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*	3,029 (See Attach. B for detailed calculations)	n/a	n/a

[16] Total Retention Volume from LID Infiltration BMPs (ft^3): 3,029
(Sum of Items 14 and 15 for all infiltration BMP included in plan)

[17] Fraction of DCV achieved with infiltration BMP: 105.2%
Retention% = Item 16 / Form 4.2-1 Item 7

[18] Is full LID DCV retained on-site with combination of hydrologic source control and LID retention and infiltration BMPs?
☒Yes ☐No
If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.

4.3.3 Harvest and Use BMP

Harvest and use BMP may be considered if the full LID DCV cannot be met by maximizing infiltration BMPs. Use Form 4.3-4 to compute on-site retention of runoff from proposed harvest and use BMPs.

Volume retention estimates for harvest and use BMPs are sensitive to the on-site demand for captured stormwater. Since irrigation water demand is low in the wet season, when most rainfall events occur in San Bernardino County, the volume of water that can be used within a specified drawdown period is relatively low. The bottom portion of Form 4.3-4 facilitates the necessary computations to show infeasibility if a minimum incremental benefit of 40 percent of the LID DCV would not be achievable with MEP implementation of on-site harvest and use of stormwater (Section 5.5.4 of the TGD for WQMP).

Form 4.3-4 Harvest and Use BMPs

[1] **Remaining LID DCV not met by site design HSC or infiltration BMP (ft^3):** V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16			
BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP)*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[2] **Describe cistern or runoff detention facility**			
[3] **Storage volume for proposed detention type (ft^3)** *Volume of cistern*			
[4] **Landscaped area planned for use of harvested stormwater (ft^2)**			
[5] **Average wet season daily irrigation demand (in/day)** *Use local values, typical ~ 0.1 in/day*			
[6] **Daily water demand (ft^3/day)** *Item 4 * (Item 5 / 12)*			
[7] **Drawdown time (hrs)** *Copy Item 6 from Form 4.2-1*			
[8] **Retention Volume (ft^3)** *$V_{retention}$ = Minimum of (Item 3) or (Item 6 * (Item 7 / 24))*			
[9] **Total Retention Volume (ft^3) from Harvest and Use BMP:** *Sum of Item 8 for all harvest and use BMP included in plan*			
[10] **Is the full DCV retained with a combination of LID HSC, retention and infiltration, and harvest and use BMPs?** ☐Yes ☐No *If yes, demonstrate conformance using Form 4.3-10. If no, then re-evaluate combinations of all LID BMP and optimize their implementation such that the maximum portion of the DCV is retained on-site (using a single BMP type or combination of BMP types). If the full DCV cannot be mitigated after this optimization process, proceed to Section 4.3.4.*			

4.3.4 Biotreatment BMP

Biotreatment BMPs may be considered if the full LID DCV cannot be met by maximizing retention and infiltration, and harvest and use BMPs. A key consideration when using biotreatment BMP is the effectiveness of the proposed BMP in addressing the pollutants of concern for the project (see Table 5-5 of the TGD for WQMP).

Use Form 4.3-5 to summarize the potential for volume based and/or flow based biotreatment options to biotreat the remaining unmet LID DCV. Biotreatment computations are included as follows:

- Use Form 4.3-6 to compute biotreatment in small volume based biotreatment BMP (e.g. bioretention w/underdrains);
- Use Form 4.3-7 to compute biotreatment in large volume based biotreatment BMP (e.g. constructed wetlands);
- Use Form 4.3-8 to compute sizing criteria for flow-based biotreatment BMP (e.g. bioswales)

Form 4.3-5 Selection and Evaluation of Biotreatment BMP

<table>
<tr><td colspan="2">[1] Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft³):
Form 4.2-1 Item 7 – Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9</td><td colspan="2">List pollutants of concern
Copy from Form 2.3-1</td></tr>
<tr><td rowspan="2">[2] Biotreatment BMP Selected
(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)</td><td>Volume-based biotreatment
Use Forms 4.3-6 and 4.3-7 to compute treated volume</td><td colspan="2">Flow-based biotreatment
Use Form 4.3-8 to compute treated volume</td></tr>
<tr><td>☐ Bioretention with underdrain
☐ Planter box with underdrain
☐ Constructed wetlands
☐ Wet extended detention
☐ Dry extended detention</td><td colspan="2">☐ Vegetated swale
☐ Vegetated filter strip
☐ Proprietary biotreatment</td></tr>
<tr><td>[3] Volume biotreated in volume based biotreatment BMP (ft³):
Form 4.3-6 Item 15 + Form 4.3-7 Item 13</td><td>[4] Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft³):
Item 1 – Item 3</td><td colspan="2">[5] Remaining fraction of LID DCV for sizing flow based biotreatment BMP: %
Item 4 / Item 1</td></tr>
<tr><td colspan="4">[6] Flow-based biotreatment BMP capacity provided (cfs):
Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)</td></tr>
<tr><td colspan="4">[7] Metrics for MEP determination:
☐ Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development:
If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.</td></tr>
</table>

Form 4.3-6 Volume Based Biotreatment – Bioretention and Planter Boxes with Underdrains

BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP)*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[1] **Pollutants addressed with BMP** *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*			
[2] **Amended soil infiltration rate** *Typical ~ 5.0 in/hr*			
[3] **Amended soil infiltration safety factor** *Typical ~ 2.0*			
[4] **Amended soil design percolation rate (in/hr)** P_{design} *= Item 2 / Item 3*			
[5] **Ponded water drawdown time (hr)** *Copy Item 6 from Form 4.2-1*			
[6] **Maximum ponding depth (ft)** *See Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[7] **Ponding Depth (ft)** d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*			
[8] **Amended soil surface area (ft^2)**			
[9] **Amended soil depth (ft)** *See Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[10] **Amended soil porosity, *n***			
[11] **Gravel depth (ft)** *See Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[12] **Gravel porosity, *n***			
[13] **Duration of storm as basin is filling (hrs)** *Typical ~ 3hrs*			
[14] **Biotreated Volume (ft^3)** $V_{biotreated}$ *= Item 8 * [(Item 7/2) + (Item 9 * Item 10) +(Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
[15] **Total biotreated volume from bioretention and/or planter box with underdrains BMP:** *Sum of Item 14 for all volume-based BMPs included in this form*			

Form 4.3-7 Volume Based Biotreatment – Constructed Wetlands and Extended Detention

Biotreatment BMP Type *Constructed wetlands, extended wet detention, extended dry detention, or other comparable proprietary BMP. If BMP includes multiple modules (e.g. forebay and main basin), provide separate estimates for storage and pollutants treated in each module.*	**BMP Type and DA**		**BMP Type and DA**		**BMP Type and DA**	
	Forebay	**Basin**	**Forebay**	**Basin**	**Forebay**	**Basin**
[1] **Pollutants addressed with BMP forebay and basin** *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*						
[2] **Bottom width (ft)**						
[3] **Bottom length (ft)**						
[4] **Bottom area (ft^2)** *A_{bottom} = Item 2 * Item 3*						
[5] **Side slope (ft/ft)**						
[6] **Depth of storage (ft)**						
[7] **Water surface area (ft2)** *$A_{surface}$ = (Item 2 + (2 * Item 5 * Item 6)) * (Item 3 + (2 * Item 5 * Item 6))*						
[8] **Storage volume (ft3)** *For BMP with a forebay, ensure fraction of total storage is within ranges specified in BMP specific fact sheets, see Table 5-6 of the TGD for WQMP for reference to BMP design details V =Item 6 / 3 * [Item 4 + Item 7 + (Item 4 * Item 7)$^{0.5}$]*						
[9] **Drawdown Time (hrs)** *Copy Item 6 from Form 2.1*						
[10] **Outflow rate (cfs)** *Q_{BMP} = (Item $8_{forebay}$ + Item 8_{basin}) / (Item 9 * 3600)*						
[11] **Duration of design storm event (hrs)**						
[12] **Biotreated Volume (ft^3)** *$V_{biotreated}$ = (Item $8_{forebay}$ + Item 8_{basin}) +(Item 10 * Item 11 * 3600)*						
[13] **Total biotreated volume from constructed wetlands, extended dry detention, or extended wet detention:** *(Sum of Item 12 for all BMP included in plan)*						

Form 4.3-8 Flow Based Biotreatment

Biotreatment BMP Type *Vegetated swale, vegetated filter strip, or other comparable proprietary BMP*	**BMP Type and DA**	**BMP Type and DA**	**BMP Type and DA**
[1] **Pollutants addressed with BMP** *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in TGD Table 5-5*			
[2] **Flow depth for water quality treatment (ft)** *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[3] **Bed slope (ft/ft)** *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[4] **Manning's roughness coefficient**			
[5] **Bottom width (ft)** *b_w = (Form 4.3-5 Item 6 * Item 4) / (1.49 * Item $2^{1.67}$ * Item $3^{0.5}$)*			
[6] **Side Slope (ft/ft)** *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[7] **Cross sectional area (ft^2)** *A = (Item 5 * Item 2) + (Item 6 * Item 2^2)*			
[8] **Water quality flow velocity (ft/sec)** *V = Form 4.3-5 Item 6 / Item 7*			
[9] **Hydraulic residence time (min)** *Pollutant specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
[10] **Length of flow based BMP (ft)** *L = Item 8 * Item 9 * 60*			
[11] **Water surface area at water quality flow depth (ft2)** *SA_{top} = (Item 5 + (2 * Item 2 * Item 6)) * Item 10*			

4.3.5 Conformance Summary

Complete Form 4.3-9 to demonstrate how on-site LID DCV is met with proposed site design hydrologic source control, infiltration, harvest and use, and/or biotreatment BMP. The bottom line of the form is used to describe the basis for infeasibility determination for on-site LID BMP to achieve full LID DCV, and provides methods for computing remaining volume to be addressed in an alternative compliance plan. If the project has more than one outlet, then complete additional versions of this form for each outlet.

Form 4.3-9 Conformance Summary and Alternative Compliance Volume Estimate (DA 1)

[1] **Total LID DCV for the Project (ft^3):** 48,524
Copy Item 7 in Form 4.2-1

[2] **On-site retention with site design hydrologic source control LID BMP (ft^3):** 0
Copy Item 30 in Form 4.3-2

[3] **On-site retention with LID infiltration BMP (ft^3):** 48,553
Copy Item 16 in Form 4.3-3

[4] **On-site retention with LID harvest and use BMP (ft^3):** 0
Copy Item 9 in Form 4.3-4

[5] **On-site biotreatment with volume based biotreatment BMP (ft^3):** 0
Copy Item 3 in Form 4.3-5

[6] **Flow capacity provided by flow based biotreatment BMP (cfs):** 0
Copy Item 6 in Form 4.3-5

[7] **LID BMP performance criteria are achieved if answer to any of the following is "Yes":**

- **Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP:** ☒Yes ☐No
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- **Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV:** ☐Yes ☒No
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- **On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV:** ☐Yes ☒No
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

[8] **If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:**

☐ **Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture.**
*Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} = (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*

☐ **An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility.**
Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

Form 4.3-10 Conformance Summary and Alternative Compliance Volume Estimate (DA 2 – STREET)

[1] **Total LID DCV for the Project (ft^3):** 2,880
Copy Item 7 in Form 4.2-1

[2] **On-site retention with site design hydrologic source control LID BMP (ft^3):** 0
Copy Item 30 in Form 4.3-2

[3] **On-site retention with LID infiltration BMP (ft^3):** 3,029
Copy Item 16 in Form 4.3-3

[4] **On-site retention with LID harvest and use BMP (ft^3):** 0
Copy Item 9 in Form 4.3-4

[5] **On-site biotreatment with volume based biotreatment BMP (ft^3):** 0
Copy Item 3 in Form 4.3-5

[6] **Flow capacity provided by flow based biotreatment BMP (cfs):** 0
Copy Item 6 in Form 4.3-5

[7] **LID BMP performance criteria are achieved if answer to any of the following is "Yes":**

- **Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP:** ☒Yes ☐No
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- **Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV:** ☐Yes ☒No
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- **On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV:** ☐Yes ☒No
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

[8] **If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:**

☐ **Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture.**
*Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} = (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*

☐ **An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility.**
Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

4.3.6 Hydromodification Control BMP

Use Form 4.3-10 to compute the remaining runoff volume retention, after LID BMP are implemented, needed to address HCOC, and the increase in time of concentration and decrease in peak runoff necessary to meet targets for protection of waterbodies with a potential HCOC. Describe hydromodification control BMP that address HCOC, which may include off-site BMP and/or in-stream controls. Section 5.6 of the TGD for WQMP provides additional details on selection and evaluation of hydromodification control BMP.

Form 4.3-11 Hydromodification Control BMPs

[1] **Volume reduction needed for HCOC performance criteria (ft^3):** *(Form 4.2-2 Item 4 * 0.95) – Form 4.2-2 Item 1*	[2] **On-site retention with site design hydrologic source control, infiltration, and harvest and use LID BMP (ft^3):** *Sum of Form 4.3-9 Items 2, 3, and 4. Evaluate option to increase implementation of on-site retention in Forms 4.3-2, 4.3-3, and 4.3-4 in excess of LID DCV toward achieving HCOC volume reduction*
[3] **Remaining volume for HCOC volume capture (ft^3):** *Item 1 – Item 2*	[4] **Volume capture provided by incorporating additional on-site or off-site retention BMPs (ft^3):** *Existing downstream BMP may be used to demonstrate additional volume capture (if so, attach to this WQMP a hydrologic analysis showing how the additional volume would be retained during a 2-yr storm event for the regional watershed)*
[5] **If Item 4 is less than Item 3, incorporate in-stream controls on downstream waterbody segment to prevent impacts due to hydromodification** *Attach in-stream control BMP selection and evaluation to this WQMP*	
[6] **Is Form 4.2-2 Item 11 less than or equal to 5%:** ☐Yes ☐No *If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:* ☐ **Demonstrate increase in time of concentration achieved by proposed LID site design, LID BMP, and additional on-site or off-site retention BMP.** *BMP upstream of a waterbody segment with a potential HCOC may be used to demonstrate increased time of concentration through hydrograph attenuation (if so, show that the hydraulic residence time provided in BMP for a 2-year storm event is equal or greater than the addition time of concentration requirement in Form 4.2-4 Item 15)* ☐ **Increase time of concentration by preserving pre-developed flow path and/or increase travel time by reducing slope and increasing cross-sectional area and roughness for proposed on-site conveyance facilities.** ☐ **Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California.**	
[7] **Form 4.2-2 Item 12 less than or equal to 5%:** ☐Yes ☐No *If yes, HCOC performance criteria are achieved. If no, select one or more mitigation options below:* ☐ **Demonstrate reduction in peak runoff achieved by proposed LID site design, LID BMPs, and additional on-site or off-site retention BMPs.** *BMPs upstream of a waterbody segment with a potential HCOC may be used to demonstrate additional peak runoff reduction through hydrograph attenuation (if so, attach to this WQMP, a hydrograph analysis showing how the peak runoff would be reduced during a 2-yr storm event)* ☐ **Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California.**	

4.4 Alternative Compliance Plan (if applicable)

Describe an alternative compliance plan (if applicable) for projects not fully able to infiltrate, harvest and use, or biotreat the DCV via on-site LID practices. A project proponent must develop an alternative compliance plan to address the remainder of the LID DCV. Depending on project type some projects may qualify for water quality credits that can be applied to reduce the DCV that must be treated prior to development of an alternative compliance plan (see Form 2.4-1, Water Quality Credits). Form 4.3-9 Item 8 includes instructions on how to apply water quality credits when computing the DCV that must be met through alternative compliance. Alternative compliance plans may include one or more of the following elements:

- On-site structural treatment control BMP - All treatment control BMP should be located as close to possible to the pollutant sources and should not be located within receiving waters;
- Off-site structural treatment control BMP - Pollutant removal should occur prior to discharge of runoff to receiving waters;
- Urban runoff fund or In-lieu program, if available

Depending upon the proposed alternative compliance plan, approval by the executive officer may or may not be required (see Section 6 of the TGD for WQMP).

Section 5 Inspection and Maintenance Responsibility for Post Construction BMP

All BMP included as part of the project WQMP are required to be maintained through regular scheduled inspection and maintenance (refer to Section 8, Post Construction BMP Requirements, in the TGD for WQMP). Fully complete Form 5-1 summarizing all BMP included in the WQMP. Attach additional forms as needed. The WQMP shall also include a detailed Operation and Maintenance Plan for all BMP and may require a Maintenance Agreement (consult the jurisdiction's LIP). If a Maintenance Agreement is required, it must also be attached to the WQMP.

Form 5-1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
Hydrodynamic Separator	Owner	Visual inspection to quantify the accumulation of hydrocarbons, trash, and sediment in the system. Use vacuum truck to clean and remove pollutants from the system upon reaching 75% capacity. Clean area outside of the screen if pollutant build-up exists.	Visually inspect twice a year (spring and fall) or as frequently as needed. Vacuum frequency as determined by inspection.
Underground Infiltration Chambers	Owner	The isolator row shall be inspected semi-annually (October 1st and February 1st) and maintained upon sediment reaching 3-inches in depth. The isolator row shall be inspected and maintained by a qualified technician and he/she will properly dispose of all wastes. A manhole is installed in order to inspect and maintain the isolator row. It is installed per OSHA codes to ensure operator and inspector safety.	Semi-annually (October 1st and February 1st) through maintenance service contract with the vendor or equally qualified contractor.
N1: Education of Property Owners, Tenants and Occupants on Stormwater BMPs	Owner	Property owner will familiarize him/herself with the educational materials in Attachment "E" and the contents of the WQMP.	Annually for all employees and within 2 months for new hires.
N2: Activity Restrictions	Owner	No outdoor work areas, processing, storage or wash area.	Ongoing
N3: Landscape Management BMPs	Owner	Irrigation must be consistent with the local agency's Water Conservation Ordinance. Fertilizer and pesticide usage will be consistent with local agency's Management Guidelines for Use of Fertilizers and Pesticides.	Ongoing
N4: BMP Maintenance	Owner	BMP maintenance, implementation schedules, and responsible parties are included with each specific BMP narrative.	As described in each BMP.
N7: Spill Contingency Plan	Owner	Owner/tenant will have a spill contingency plan based on individual site needs.	Ongoing
N10: Uniform Fire Code Implementation	Owner	Owner will comply with Article 80 of the Uniform Fire Code enforced by the fire protection agency.	Ongoing

Form 5-1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
N11: Litter/Debris Control Program	Owner	Contract with their landscape maintenance firm to provide this service during regularly schedule maintenance.	Weekly
N12: Employee Training	Owner	The owner will ensure that tenants are also familiar with onsite BMPs and necessary maintenance required of the tenants. Employees shall be trained to clean up spills and participate in ongoing maintenance. Owner will check with City and County at least once a year to obtain new or updated educational materials and provide these materials to tenants. The WQMP requires annual employee training and new hires within 2 months.	Annually for all employees and within 2 months for new hires.
N13: Housekeeping of Loading Docks	Owner	Keep all fluids indoors. Clean up spills immediately and keep spills from entering storm drain system. Area shall be inspected weekly for proper containment and practices with spills cleaned up immediately and disposed of properly.	Ongoing
N14: Catch Basin Inspection Program	Owner	Monthly inspection by property owner's designee. Sumps will be vacuumed when sediment or trash becomes 2-inches deep and disposed of properly.	Monthly inspection and maintain as necessary.
N15: Vacuum Sweeping of Private Streets and Parking Lots	Owner	All landscape maintenance contractors will be required to sweep up all landscape cuttings, mowings and fertilizer materials off paved areas weekly and dispose of properly. Parking areas and drive ways will be swept monthly by sweeping contractor.	Monthly
N17: Comply with all other applicable NPDES permits	Owner	Will comply with Construction General Permit and Industrial General Permit (may apply for No Exposure Certification/NEC).	Ongoing during construction.
S1: Provide storm drain system stenciling and signage (CASQA New Development BMP Handbook SD-13)	Owner	"No Dumping – Drains to River" stencils will be applied. Legibility of stencil will be maintained on a yearly basis.	Annually
S3: Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	Owner	Paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements diverted around the area, screened or walled to prevent off-site transport of trash.	Ongoing

Form 5-1 BMP Inspection and Maintenance

BMP	Responsible Party(ies)	Inspection/Maintenance Activities Required	Minimum Frequency of Activities
S4: Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	Owner	Irrigation systems shall include shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines. Timers will be used to avoid over watering and watering cycles and duration shall be adjusted seasonally by the landscape maintenance contractor. The landscaping areas will be grouped with plants that have similar water requirements. Native or drought tolerant species shall also be used where appropriate to reduce excess irrigation runoff and promote surface filtration.	Adjust watering cycles and duration seasonally / quarterly.
S5: Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	Owner	Landscaped areas will be depressed in order to increase retention of stormwater/irrigation water and promote infiltration.	Ongoing

Section 6 WQMP Attachments

6.1 Site Plan and Drainage Plan

Include a site plan and drainage plan sheet set containing the following minimum information:

- Project location
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural Source Control BMP locations
- Site Design Hydrologic Source Control BMP locations
- LID BMP details
- Drainage delineations and flow information
- Drainage connections

See Attachment C for WQMP Site Map.

6.2 Electronic Data Submittal

Minimum requirements include submittal of PDF exhibits in addition to hard copies. Format must not require specialized software to open. If the local jurisdiction requires specialized electronic document formats (consult the LIP), this section will describe the contents (e.g., layering, nomenclature, geo-referencing, etc.) of these documents so that they may be interpreted efficiently and accurately.

6.3 Post Construction

Attach all O&M Plans and Maintenance Agreements for BMP to the WQMP (Attachment D).

6.4 Other Supporting Documentation

- Existing Site Photos (Attachment A)
- BMP Design Calculations & Supporting Documentation (Attachment B)
- Maintenance Agreement (Attachment D)
- BMP Educational Materials (Attachment E)
- Infiltration Report (Attachment F)
- HCOC (Attachment G)
- Phase 1 ESA (Attachment H – electronic)

Attachment A
Existing Condition Site Photos

05/31/2022

05/31/2022

05/31/2022

05/31/2022

Attachment B
BMP Design Calculations & Supporting Documentation

www.nws.noaa.gov

NOAA's National Weather Service
Hydrometeorological Design Studies Center
Precipitation Frequency Data Server (PFDS)

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NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES: CA

Data description

Data type: Precipitation depth Units: English Time series type: Partial duration

Select location

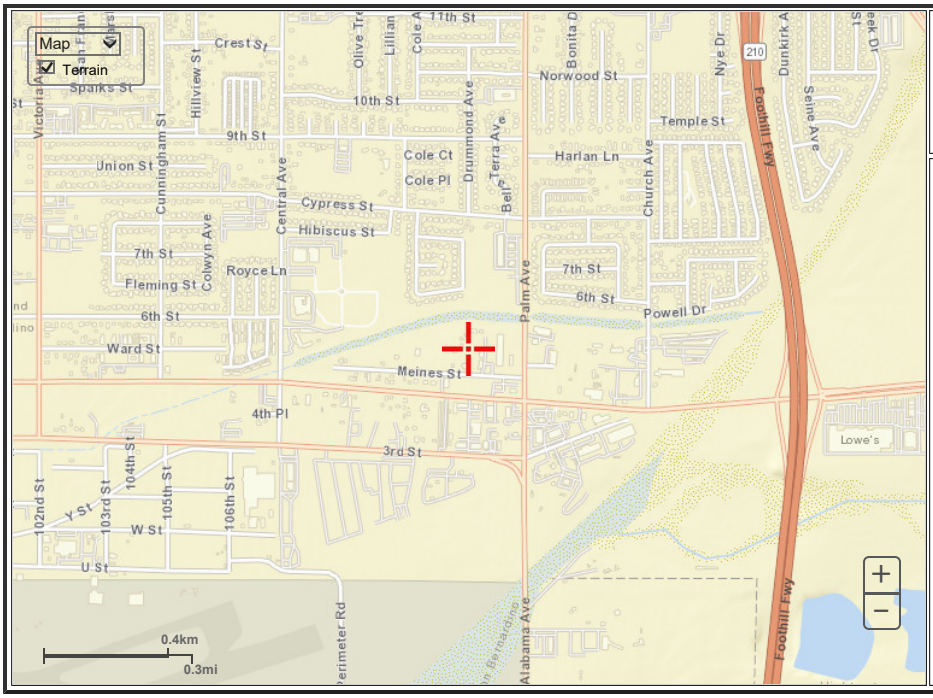
1) Manually:

a) By location (decimal degrees, use "-" for S and W): Latitude: 34.109421 Longitude: -117.21079 Submit

b) By station (list of CA stations): Select station

c) By address Search

2) Use map (if ESRI interactive map is not loading, try adding the host: **https://js.arcgis.com/** to the firewall, or contact us at hdsc.questions@noaa.gov):



a) Select location
Move crosshair or double click

b) Click on station icon
Show stations on map

Location information:
Name: Highland, California, USA*
Latitude: 34.1094°
Longitude: -117.2108°
Elevation: 1188.54 ft **

* Source: ESRI Maps
** Source: USGS

POINT PRECIPITATION FREQUENCY (PF) ESTIMATES

WITH 90% CONFIDENCE INTERVALS AND SUPPLEMENTARY INFORMATION
NOAA Atlas 14, Volume 6, Version 2

PF tabular PF graphical Supplementary information Print page

PDS-based precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years) 1	2	5	10	25	50	100	200	500	1000
5-min	**0.103** (0.086-0.125)	**0.135** (0.112-0.164)	**0.178** (0.148-0.217)	**0.214** (0.176-0.264)	**0.266** (0.211-0.338)	**0.307** (0.239-0.399)	**0.351** (0.266-0.467)	**0.397** (0.292-0.545)	**0.463** (0.327-0.663)	**0.517** (0.352-0.766)
10-min	**0.148** (0.123-0.179)	**0.193** (0.161-0.235)	**0.255** (0.211-0.311)	**0.307** (0.253-0.378)	**0.381** (0.303-0.485)	**0.440** (0.342-0.572)	**0.503** (0.381-0.670)	**0.569** (0.419-0.781)	**0.664** (0.469-0.950)	**0.741** (0.505-1.10)
15-min	**0.179** (0.149-0.217)	**0.234** (0.194-0.284)	**0.309** (0.256-0.376)	**0.372** (0.305-0.457)	**0.461** (0.366-0.587)	**0.532** (0.414-0.692)	**0.608** (0.461-0.810)	**0.688** (0.507-0.944)	**0.803** (0.567-1.15)	**0.896** (0.610-1.33)
30-min	**0.268** (0.223-0.326)	**0.351** (0.291-0.426)	**0.463** (0.384-0.565)	**0.558** (0.458-0.686)	**0.691** (0.549-0.880)	**0.799** (0.621-1.04)	**0.912** (0.691-1.22)	**1.03** (0.760-1.42)	**1.20** (0.850-1.72)	**1.34** (0.916-1.99)
60-min	**0.391** (0.325-0.475)	**0.512** (0.425-0.622)	**0.676** (0.560-0.824)	**0.814** (0.668-1.00)	**1.01** (0.801-1.28)	**1.17** (0.905-1.52)	**1.33** (1.01-1.77)	**1.51** (1.11-2.07)	**1.76** (1.24-2.52)	**1.96** (1.34-2.91)
2-hr	**0.561** (0.467-0.682)	**0.721** (0.599-0.877)	**0.936** (0.775-1.14)	**1.11** (0.915-1.37)	**1.36** (1.08-1.73)	**1.56** (1.21-2.02)	**1.76** (1.33-2.34)	**1.97** (1.45-2.70)	**2.26** (1.60-3.23)	**2.49** (1.70-3.69)
3-hr	**0.690** (0.574-0.838)	**0.881** (0.732-1.07)	**1.13** (0.939-1.38)	**1.34** (1.10-1.65)	**1.63** (1.30-2.08)	**1.86** (1.44-2.42)	**2.09** (1.58-2.79)	**2.33** (1.72-3.20)	**2.66** (1.88-3.81)	**2.92** (1.99-4.33)
6-hr	**0.965** (0.802-1.17)	**1.23** (1.02-1.49)	**1.57** (1.30-1.92)	**1.85** (1.52-2.28)	**2.24** (1.78-2.85)	**2.54** (1.97-3.30)	**2.84** (2.15-3.79)	**3.15** (2.32-4.33)	**3.58** (2.53-5.13)	**3.91** (2.67-5.80)
12-hr	**1.28**	**1.64**	**2.12**	**2.50**	**3.02**	**3.42**	**3.82**	**4.24**	**4.80**	**5.23**

	(1.06-1.55)	(1.36-2.00)	(1.75-2.58)	(2.05-3.07)	(2.40-3.84)	(2.66-4.44)	(2.90-5.10)	(3.12-5.81)	(3.39-6.86)	(3.56-7.75)
24-hr	**1.72** (1.53-1.99)	**2.24** (1.99-2.59)	**2.92** (2.58-3.38)	**3.47** (3.04-4.05)	**4.22** (3.57-5.08)	**4.78** (3.97-5.88)	**5.36** (4.34-6.75)	**5.94** (4.69-7.70)	**6.74** (5.10-9.08)	**7.35** (5.38-10.2)
2-day	**2.12** (1.88-2.44)	**2.80** (2.47-3.23)	**3.69** (3.25-4.26)	**4.42** (3.86-5.15)	**5.41** (4.58-6.51)	**6.17** (5.12-7.59)	**6.95** (5.63-8.75)	**7.76** (6.11-10.0)	**8.85** (6.70-11.9)	**9.70** (7.10-13.5)
3-day	**2.30** (2.04-2.65)	**3.06** (2.71-3.53)	**4.08** (3.60-4.72)	**4.92** (4.30-5.73)	**6.07** (5.14-7.31)	**6.96** (5.78-8.56)	**7.89** (6.39-9.93)	**8.84** (6.97-11.4)	**10.2** (7.69-13.7)	**11.2** (8.19-15.6)
4-day	**2.47** (2.19-2.85)	**3.32** (2.93-3.83)	**4.45** (3.92-5.15)	**5.38** (4.71-6.28)	**6.68** (5.66-8.05)	**7.69** (6.38-9.46)	**8.74** (7.08-11.0)	**9.83** (7.75-12.7)	**11.3** (8.58-15.3)	**12.5** (9.17-17.5)
7-day	**2.83** (2.51-3.26)	**3.85** (3.40-4.44)	**5.22** (4.60-6.04)	**6.36** (5.56-7.41)	**7.94** (6.72-9.56)	**9.18** (7.62-11.3)	**10.5** (8.48-13.2)	**11.8** (9.31-15.3)	**13.7** (10.4-18.4)	**15.2** (11.1-21.1)
10-day	**3.06** (2.71-3.53)	**4.20** (3.72-4.85)	**5.74** (5.06-6.64)	**7.02** (6.14-8.18)	**8.80** (7.45-10.6)	**10.2** (8.46-12.5)	**11.7** (9.44-14.7)	**13.2** (10.4-17.1)	**15.3** (11.6-20.6)	**17.0** (12.4-23.7)
20-day	**3.77** (3.34-4.34)	**5.23** (4.63-6.04)	**7.21** (6.36-8.34)	**8.87** (7.76-10.3)	**11.2** (9.48-13.5)	**13.0** (10.8-16.0)	**15.0** (12.1-18.8)	**17.0** (13.4-22.0)	**19.8** (15.0-26.7)	**22.0** (16.1-30.7)
30-day	**4.44** (3.93-5.12)	**6.17** (5.46-7.12)	**8.51** (7.51-9.85)	**10.5** (9.17-12.2)	**13.2** (11.2-16.0)	**15.4** (12.8-19.0)	**17.7** (14.4-22.3)	**20.2** (15.9-26.1)	**23.5** (17.8-31.7)	**26.3** (19.2-36.6)
45-day	**5.33** (4.72-6.15)	**7.35** (6.50-8.48)	**10.1** (8.90-11.7)	**12.4** (10.9-14.5)	**15.7** (13.3-18.9)	**18.3** (15.2-22.5)	**21.0** (17.0-26.4)	**23.9** (18.8-30.9)	**27.9** (21.1-37.6)	**31.1** (22.8-43.4)
60-day	**6.27** (5.55-7.22)	**8.53** (7.55-9.85)	**11.6** (10.3-13.5)	**14.2** (12.5-16.6)	**17.9** (15.2-21.6)	**20.9** (17.3-25.7)	**24.0** (19.4-30.2)	**27.2** (21.5-35.2)	**31.8** (24.1-42.9)	**35.5** (26.0-49.5)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

Estimates from the table in CSV format: Precipitation frequency estimates Submit

Main Link Categories:
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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Office of Water Prediction (OWP)
1325 East West Highway
Silver Spring, MD 20910
Page Author: HDSC webmaster
Page last modified: April 21, 2017

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Worksheet H: Factor of Safety and Design Infiltration Rate Worksheet

DA 1

Factor Category		Factor Description	Assigned Weight (w)	Factor Value (v)	Product (p) p = w x v
A	Suitability Assessment	Soil assessment methods	0.25	2	0.50
		Predominant soil texture	0.25	1	0.25
		Site soil variability	0.25	2	0.50
		Depth to groundwater / impervious layer	0.25	1	0.25
		Suitability Assessment Safety Factor, $S_A = \Sigma p$			1.50
B	Design	Tributary area size	0.25	3	0.75
		Level of pretreatment/ expected sediment loads	0.25	2	0.50
		Redundancy	0.25	3	0.75
		Compaction during construction	0.25	1	0.25
		Design Safety Factor, $S_B = \Sigma p$			2.25
Combined Safety Factor, $S_{TOT} = S_A \times S_B$					3.375
Measured Infiltration Rate, inch/hr, K_M (corrected for test-specific bias)					13.3
Design Infiltration Rate, in/hr, $K_{DESIGN} = K_M / S_{TOT}$					3.9; use 2.4

Supporting Data

Briefly describe infiltration test and provide reference to test forms:

A site-specific infiltration test was conducted at the project site to support a measured infiltration rate of 13.3 in/hr. The design infiltration rate will be 2.4 in/hr. This design rate is suitable for infiltration facilities.

Note: The minimum combined adjustment factor shall not be less than 2.0 and the maximum combined adjustment factor shall not exceed 9.0.

Worksheet H: Factor of Safety and Design Infiltration Rate Worksheet
DA 2 – STREET

Factor Category		Factor Description	Assigned Weight (w)	Factor Value (v)	Product (p) p = w x v
A	Suitability Assessment	Soil assessment methods	0.25	2	0.50
		Predominant soil texture	0.25	1	0.25
		Site soil variability	0.25	2	0.50
		Depth to groundwater / impervious layer	0.25	1	0.25
		Suitability Assessment Safety Factor, $S_A = \Sigma p$			1.50
B	Design	Tributary area size	0.25	1	0.25
		Level of pretreatment/ expected sediment loads	0.25	2	0.50
		Redundancy	0.25	3	0.75
		Compaction during construction	0.25	1	0.25
		Design Safety Factor, $S_B = \Sigma p$			1.75
Combined Safety Factor, $S_{TOT} = S_A \times S_B$					2.625
Measured Infiltration Rate, inch/hr, K_M (corrected for test-specific bias)					8.2
Design Infiltration Rate, in/hr, $K_{DESIGN} = K_M / S_{TOT}$					3.12

Supporting Data

Briefly describe infiltration test and provide reference to test forms:

A site-specific infiltration test was conducted at the project site to support a measured infiltration rate of 8.2 in/hr. The design infiltration rate will be 3.12 in/hr. This design rate is suitable for infiltration facilities.

Note: The minimum combined adjustment factor shall not be less than 2.0 and the maximum combined adjustment factor shall not exceed 9.0.

FLOW-BASED BMP DESIGN (pretreatment)

$C_{BMP} = 0.858(imp)^3 - 0.78(imp)^2 + 0.774(imp) + 0.04$
$I_{BMP} = (0.512)(0.2787)(2) = 0.285$ in/hr
$Q = C_{BMP} * 0.285 * Area$

DA 1 – HYDRODYNAMIC SEPARATOR – (CDS "A")

Region		Valley	
Drainage Area (acres)		12.30	acres
Drainage Area (sq-ft)		535,788	sq-ft
Impervious Coeff	i =	0.9	< 1.0
Runoff Coeff	**C =**	0.73	
1-hr 2-yr from NOAA		0.512	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.285	
Flow (cfs)	Q =	2.56	cfs

CONTECH CDS3030-6
Q-required = 2.56 cfs
Q-provided = 3.00 cfs

DA 2 – STREET – HYDRODYNAMIC SEPARATOR – (CDS "B")

Region		Valley	
Drainage Area (acres)		0.73	acres
Drainage Area (sq-ft)		31,799	sq-ft
Impervious Coeff	i =	0.9	< 1.0
Runoff Coeff	**C =**	0.73	
1-hr 2-yr from NOAA		0.512	
Intensity Coeff		0.2787	
Intensity BMP (in/hr)		0.285	
Flow (cfs)	Q =	0.15	cfs

CONTECH CDS1515-3
Q-required = 0.15 cfs
Q-provided = 0.50 cfs

VOLUME-BASED BMP DESIGN

$C_{BMP} = 0.858(imp)^3 - 0.78(imp)^2 + 0.774(imp) + 0.04$
P6 = (0.512)(1.4807) = 0.758 inches
P0 = (1.963)(C_{BMP})(0.758)
DCV = (P0 * Area) / 12

DA 1 – UNDERGROUND INFILTRATION CHAMBERS – (STC "A")

Region		Valley	
Drainage Area (acres)		12.30	acres
Drainage Area (sq-ft)		535,788	sq-ft
Impervious Coeff	i =	0.9	< 1.0
Runoff Coeff	**C =**	0.730	
1-hr 2-yr from NOAA		0.512	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.758	
Drawdown Rate (a)		1.963	
DCV		48,524	cu-ft
DCV		1.114	acre-ft

StormTech
Detention • Retention • Recharge
Subsurface Stormwater Management™

MC-3500 Site Calculator

Project Information:

Project Name:	27820 Meines Street (TEI 4110)
Location:	Highland, CA
Date:	12-Sep
Engineer:	Thienes Engineering Inc.
StormTech RPM:	

System Requirements

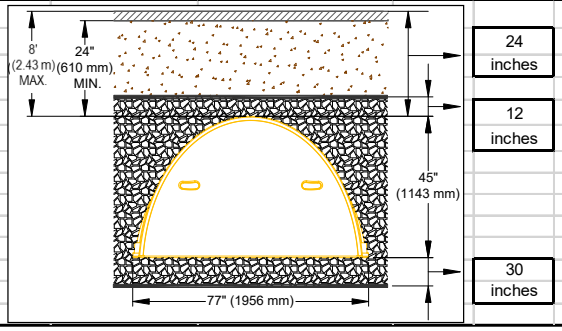
Units		Imperial	
Required Storage Volume		48,524	CF
Stone Porosity (Industry Standard = 40%)		40	%
Stone Above Chambers	(12 inch min.)	12	inches
Stone Foundation Depth	(9 inch min.)	30	inches
Average Cover over Chambers	(24 inch min.)	24	inches
Bed size controlled by WIDTH or LENGTH?		WIDTH	
Limiting WIDTH or LENGTH dimension		70	feet
Storage Volume per Chamber		214.9	CF
Storage Volume per End Cap		58.9	CF

System Sizing

Number of Chambers Required	221	each
Number of End Caps Required	18	each
Bed Size (including perimeter stone)	11,889	square feet
Stone Required (including perimeter stone)	3199	tons
Volume of Excavation	3192	cubic yards
Non-woven Filter Fabric Required (20% Safety Factor)	3653	square yards
Length of Isolator Row	183.9	feet
Non-woven Isolator Row Fabric (20% Safety Factor)	319	square yards
Woven Isolator Row Fabric (20% Safety Factor)	405	square yards
Installed Storage Volume	48,553	cubic feet

Controlled by Width (Rows)

Maximum Width =				70	feet
5	rows of	25	chambers		
4	row of	24	chambers		
Maximum Length =				183.94	feet
Maximum Width =				65.75	feet



Design infiltration rate = 2.4 in/hr
d_{max} = 115.2 inches = Design infiltration rate x 48 hours = 2.4 in/hr x 48 hrs
d_{BMP} = 61.8 inches = [(30 inches + 12 inches) x 0.40] + 45 inches
$d_{max} > d_{BMP}$

DA 2 – STREET – UNDERGROUND INFILTRATION CHAMBERS – (STC "B")

Region		Valley	
Drainage Area (acres)		0.73	acres
Drainage Area (sq-ft)		31,799	sq-ft
Impervious Coeff	i =	0.9	< 1.0
Runoff Coeff	**C =**	0.730	
1-hr 2-yr from NOAA		0.512	
P6 Coeff		1.4807	
Mean 6-hr (P6)		0.758	
Drawdown Rate (a)		1.963	
DCV		2,880	cu-ft
DCV		0.066	acre-ft

StormTech
Detention • Retention • Recharge
Subsurface Stormwater Management™

MC-3500 Site Calculator

Project Information:

Project Name:	27820 Meines Street (TEI 4110)
Location:	Highland, CA
Date:	12-Oct
Engineer:	Thienes Engineering Inc.
StormTech RPM:	

System Requirements

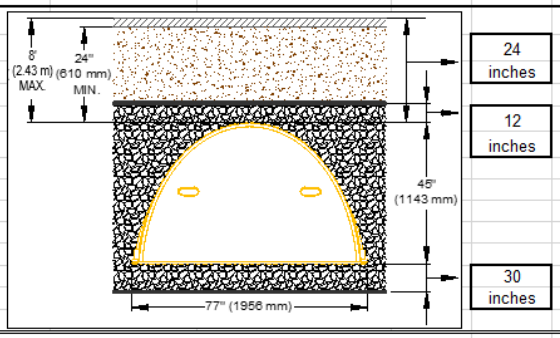
Units		Imperial	
Required Storage Volume		2,880	CF
Stone Porosity (Industry Standard = 40%)		40	%
Stone Above Chambers	(12 inch min.)	12	inches
Stone Foundation Depth	(9 inch min.)	30	inches
Average Cover over Chambers	(24 inch min.)	24	inches
Bed size controlled by WIDTH or LENGTH?		WIDTH	
Limiting WIDTH or LENGTH dimension		20	feet
Storage Volume per Chamber		214.9	CF
Storage Volume per End Cap		58.9	CF

System Sizing

Number of Chambers Required	13	each
Number of End Caps Required	4	each
Bed Size (including perimeter stone)	805	square feet
Stone Required (including perimeter stone)	226	tons
Volume of Excavation	216	cubic yards
Non-woven Filter Fabric Required (20% Safety Factor)	351	square yards
Length of Isolator Row	54.9	feet
Non-woven Isolator Row Fabric (20% Safety Factor)	95	square yards
Woven Isolator Row Fabric (20% Safety Factor)	121	square yards
Installed Storage Volume	3,029	cubic feet

Controlled by Width (Rows)

Maximum Width =				20	feet
1	row of	7	chambers		
1	row of	6	chambers		
Maximum Length =				54.94	feet
Maximum Width =				15.58	feet



*This represents the estimated material and site work costs (US dollars) for the project. Materials excluded from this estimate are conveyance pipe, pavement design, etc. It is always advisable to seek detailed construction costs from local installers. Please contact STORMTECH at 888-892-2694 for additional cost information.

Design infiltration rate = 2.4 in/hr

d_{max} = 149.8 inches = Design infiltration rate x 48 hours = 3.12 in/hr x 48 hrs

d_{BMP} = 61.8 inches = [(30 inches + 12 inches) x 0.40] + 45 inches

$d_{max} > d_{BMP}$

Attachment C
WQMP Site Map

Last Update: 9/12/22
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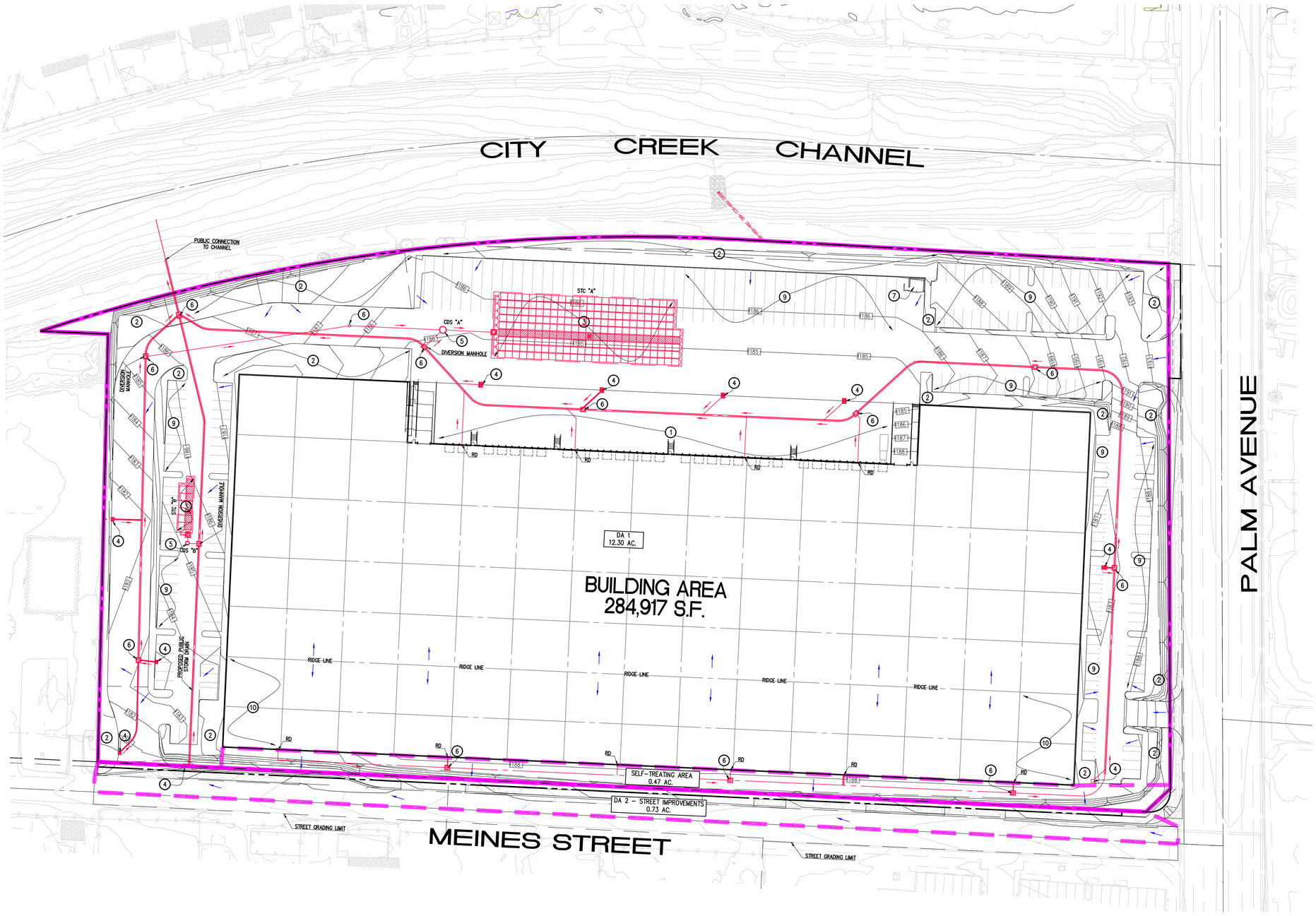
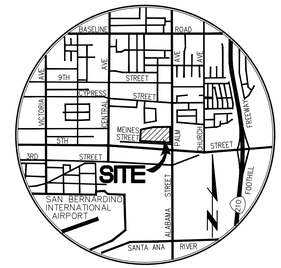
VICINITY MAP

FOR

MEINES STREET AND PALM AVENUE, HIGHLAND

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173





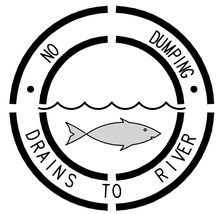
VICINITY MAP

N.T.S.

LEGEND

1. N13: HOUSEKEEPING OF LOADING DOCKS
2. N3 & S4: LANDSCAPE MANAGEMENT BMPS (EFFICIENT IRRIGATION)
3. STORMTECH MC-3500 CHAMBERS (INFILTRATION)
4. S1: CATCH BASIN STENCIL "NO DUMPING-DRAINS TO RIVER" N14: CATCH BASIN INSPECTION
5. CONTECH CDS UNIT (PRETREATMENT)
6. MANHOLE
7. S3: TRASH STORAGE AREA
8. NOT USED
9. N15: VACUUM SWEEPING PARKING AREA
10. N1: EDUCATION OF STORMWATER BMPS N12: EMPLOYEE TRAINING

RD ROOF DRAIN
BOUNDARY
DRAINAGE AREAS
SURFACE FLOW LINE
SD FLOW LINE



SAMPLE STENCIL TO BE USED NEAR GRATE AND CURB OPENING INLETS

DA	TOTAL (AC)	PERVIOUS (AC)	IMPERVIOUS (AC)	% PERVIOUS	% IMPERVIOUS	C_{IMP}	P_6 (IN)	DCV (CF)	DRAWDOWN (HRS)	STORAGE VOLUME PROVIDED (CF)	FLOWRATE REQUIRED (CFS)	FLOWRATE PROVIDED (CFS)
1	12.30	1.23	11.07	10%	90%	0.730	0.758	48,524	48	48,553	2.56	3.00
2	0.73	0.07	0.66	10%	90%	0.730	0.758	2,880	48	3,029	0.15	0.50

DA	BMP	LATITUDE	LONGITUDE
1	UNDERGROUND CHAMBERS (STC "A")	34.109957	-117.210839
	HYDRODYNAMIC SEPARATOR (CDS "A")	34.109971	-117.211319
2	UNDERGROUND CHAMBERS (STC "B")	34.109468	-117.212158
	HYDRODYNAMIC SEPARATOR (CDS "B")	34.109388	-117.212136

0 25 50 100 150

SCALE: 1"=50'

Last Update:10/13/22
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CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT

WQMP SITE MAP

MEINES STREET INDUSTRIAL DEVELOPMENT

MEINES ST. AND PALM AVE.

PREPARED FOR:

LOVETT INDUSTRIAL
1730 E. HOLLY AVENUE, #808
EL SEGUNDO, CA 90245
PHONE: (949) 402-2760

PREPARED BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

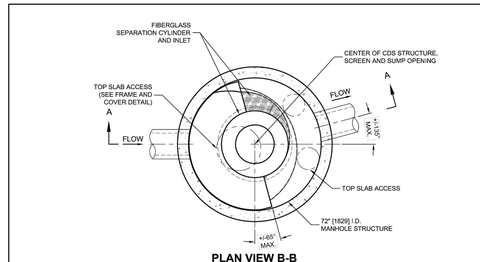
Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

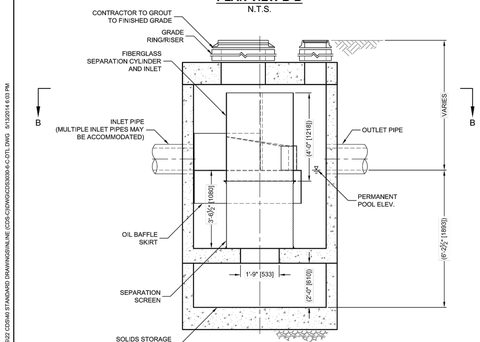
Public Works Director _____ R.C.E. _____

Sheet 1 of 2 Sheets

4110/ 1 OF 2 SHEETS

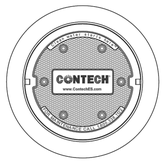


PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.

CDS3030-6-C DESIGN NOTES
CDS3030-6-C RATED TREATMENT CAPACITY IS 3.0 CFS [85.0 L/s], OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 20.0 CFS [566 L/s]. IF THE SITE CONDITIONS EXCEED 20.0 CFS [566 L/s], AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.
THE STANDARD CDS3030-6-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.
CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID			
WATER QUALITY FLOW RATE (CFS OR L/s)			*
PEAK FLOW RATE (CFS OR L/s)			*
RETURN PERIOD OF PEAK FLOW (YRS)			*
SCREEN APERTURE (2400 OR 4700)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS3030-6-C
INLINE CDS
STANDARD DETAIL

THE PRODUCT AND OR METHOD DESCRIBED ON THIS SHEET IS THE EXCLUSIVE PROPERTY OF CONTECH ENGINEERED SOLUTIONS LLC. ANY REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY CONTECH ENGINEERED SOLUTIONS LLC IS FORBIDDEN WITHOUT PRIOR WRITTEN CONSENT.

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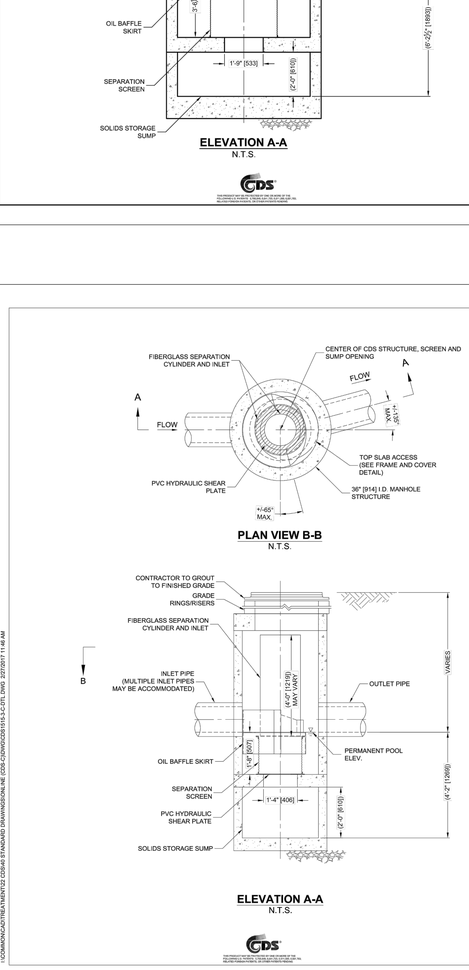
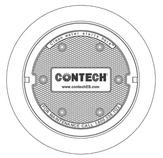


PLAN VIEW B-B
N.T.S.

ELEVATION A-A
N.T.S.

CDS1515-3-C DESIGN NOTES
CDS1515-3-C RATED TREATMENT CAPACITY IS 0.50 [14.16 L/s] CFS, OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 6.0 [170 L/s] CFS. IF THE SITE CONDITIONS EXCEED 6.0 [170 L/s] CFS, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.
THE STANDARD CDS1515-3-C CONFIGURATION IS SHOWN.



FRAME AND COVER
(D/AMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID			
WATER QUALITY FLOW RATE (CFS OR L/s)			*
PEAK FLOW RATE (CFS OR L/s)			*
RETURN PERIOD OF PEAK FLOW (YRS)			*
SCREEN APERTURE (2400 OR 4700)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
6. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS1515-3-C
ONLINE CDS
STANDARD DETAIL

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StormTech MC-3500 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.

STORMTECH MC-3500 CHAMBER
(not to scale)

Nominal Chamber Specifications

Size (L x W x H)
90" x 77" x 45"
2,286 mm x 1,956 mm x 1,143 mm

Chamber Storage
109.9 ft³ (3.11 m³)

Min. Installed Storage*
175.0 ft³ (4.96 m³)

Weight
134 lbs (60.8 kg)

Shipping
15 chambers/pallet
7 end caps/pallet
7 pallets/truck

*Assumes a minimum of 12" (300 mm) of stone above, 9" (230 mm) of stone below chambers, 6" (150 mm) of stone between chambers/end caps and 40% stone porosity.

STORMTECH MC-3500 END CAP
(not to scale)

Nominal End Cap Specifications

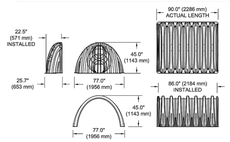
Size (L x W x H)
26.5" x 71" x 45.1"
673 mm x 1,803 mm x 1,145 mm

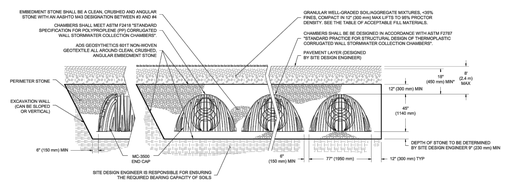
End Cap Storage
14.9 ft³ (0.42 m³)

Min. Installed Storage*
45.1 ft³ (1.28 m³)

Weight
49 lbs (22.2 kg)

*Assumes a minimum of 12" (300 mm) of stone above, 9" (230 mm) of stone below, 6" (150 mm) of stone perimeter, 6" (150 mm) of stone between chambers/end caps and 40% stone porosity.





*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).

MC-3500 CHAMBER SPECIFICATION

STORAGE VOLUME PER CHAMBER FT³ (M³)

	Bare Chamber Storage ft³ (m³)	Chamber and Stone Foundation Depth in. (mm)			
		9" (230 mm)	12" (300 mm)	15" (375 mm)	18" (450 mm)
MC-3500 Chamber	109.9 (3.11)	175.0 (4.96)	179.9 (5.09)	184.9 (5.24)	189.9 (5.38)
MC-3500 End Cap	14.9 (.42)	45.1 (1.28)	46.6 (1.32)	48.3 (1.37)	49.9 (1.41)

Note: Assumes 6" (150 mm) row spacing, 40% stone porosity, 12" (300 mm) stone above and includes the bare chamber/end cap volume.

AMOUNT OF STONE PER CHAMBER

ENGLISH TONS (yds³)	Stone Foundation Depth			
	9"	12"	15"	18"
MC-3500 Chamber	8.5 (6.0)	9.1 (6.5)	9.7 (6.9)	10.4 (7.4)
MC-3500 End Cap	3.9 (2.8)	4.1 (2.9)	4.3 (3.1)	4.5 (3.2)
METRIC KILOGRAMS (m³)	230 mm	300 mm	375 mm	450 mm
MC-3500 Chamber	7711 (4.6)	8255 (5.0)	8800 (5.3)	9435 (5.7)
MC-3500 End Cap	3538 (2.1)	3719 (2.2)	3901 (2.4)	4082 (2.5)

Note: Assumes 12" (300 mm) of stone above and 6" (150 mm) row spacing and 6" (150 mm) of perimeter stone in front of end caps.

VOLUME EXCAVATION PER CHAMBER YD³ (M³)

	Stone Foundation Depth			
	9" (230 mm)	12" (300 mm)	15" (375mm)	18" (450 mm)
MC-3500 Chamber	11.9 (9.1)	12.4 (9.5)	12.8(9.8)	13.3 (10.2)
MC-3500 End Cap	4.0 (3.1)	4.1 (3.2)	4.3 (3.3)	4.4 (3.4)

Note: Assumes 6" (150 mm) of separation between chamber rows and 24" (600 mm) of cover. The volume of excavation will vary as depth of cover increases.

ADS DESIGN TOOL 2.0

Working on a project?
Visit us at www.stormtech.com and utilize the StormTech Design Tool

For more information on the StormTech MC-3500 Chamber and other ADS products, please contact our Customer Service Representatives at 1-800-821-6710

THE MOST *ADVANCED* NAME IN WATER MANAGEMENT SOLUTIONS®

Advanced Drainage Systems, Inc.
4640 Trueman Blvd., Hilliard, OH 43026
1-800-821-6710 www.ads-pipe.com

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Last Update:10/12/22
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CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT

WQMP SITE MAP

MEINES STREET INDUSTRIAL DEVELOPMENT

MEINES ST. AND PALM AVE.

PREPARED FOR:
LOVETT INDUSTRIAL
1730 E. HOLLY AVENUE, #808
EL SEGUNDO, CA 90245
PHONE: (949) 402-2760

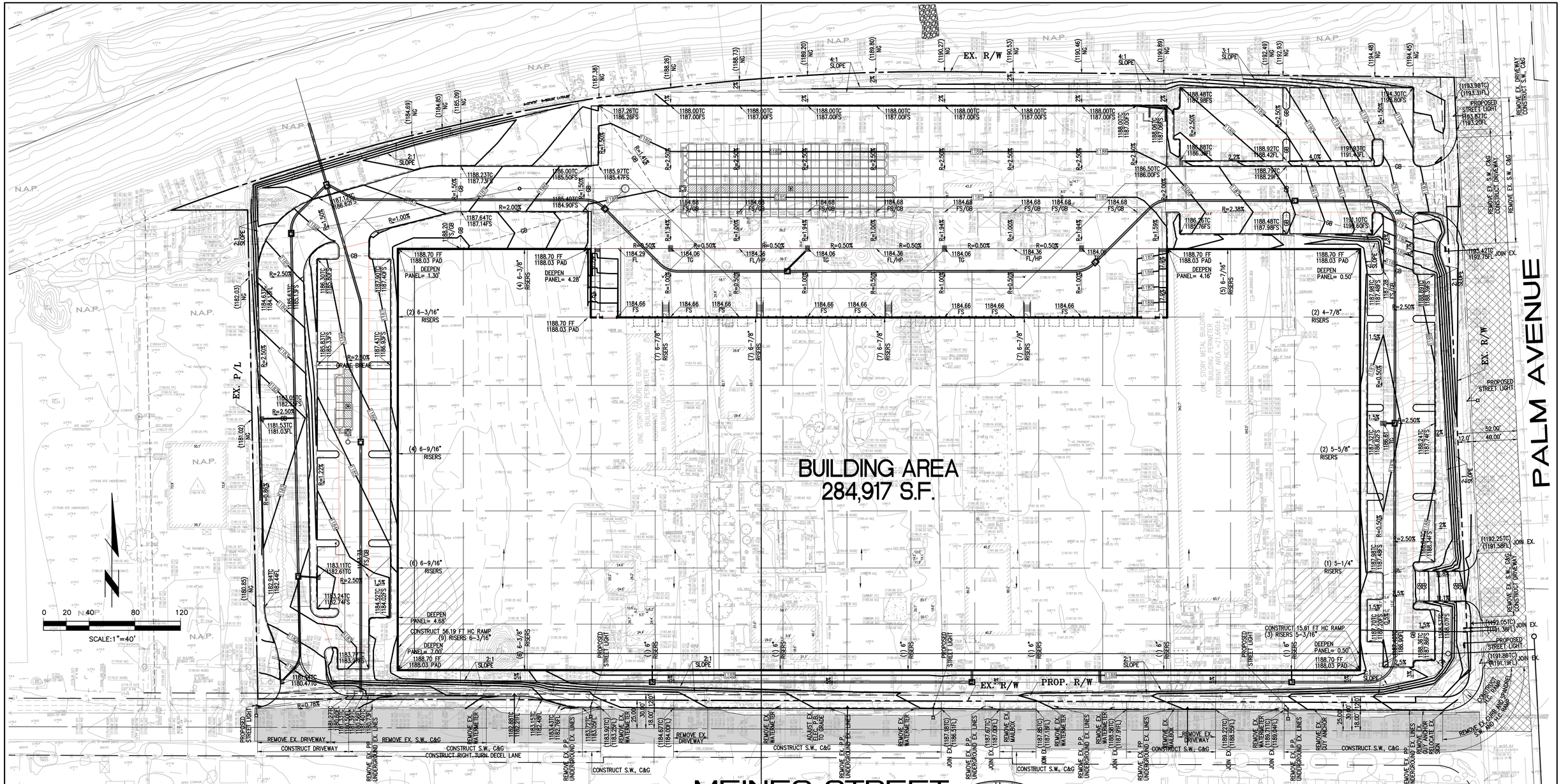
PREPARED BY:
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

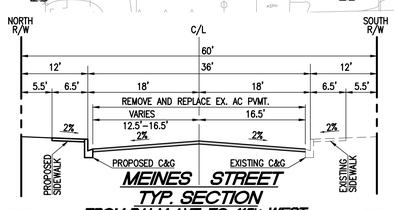
Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____
Public Works Director _____ R.C.E. _____

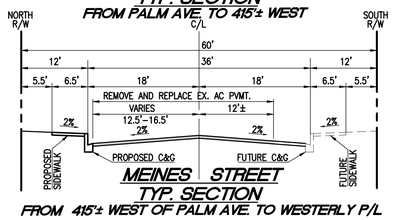
Sheet 2 of 2 Sheets

4110 / 2 OF 2 SHEETS

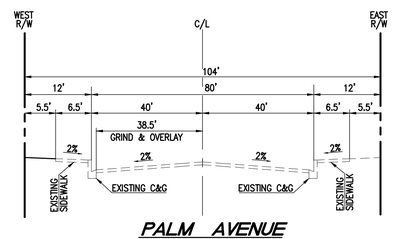




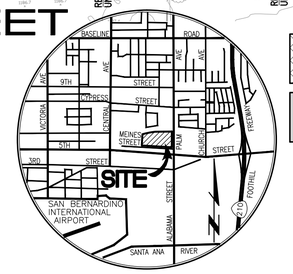
MEINES STREET
TYP. SECTION
FROM PALM AVE. TO 415'± WEST



MEINES STREET
TYP. SECTION
FROM 415'± WEST OF PALM AVE. TO WESTERLY P/L



PALM AVENUE
TYP. SECTION



VICINITY MAP
N.T.S.

INDICATES GRIND AND OVERLAY EXISTING AC PAVEMENT

INDICATES REMOVE AND REPLACE EXISTING AC PAVEMENT

EARTHWORK BALANCE CALCULATIONS

PROJECT: PALM AND MEINES
JOB# 4110

K.	SITE AREA:	640,810	SF
L.	SUBSIDENCE FACTOR:	0.125	
M.	SHRINKAGE FACTOR:	10.0	%
N.	SITE STRIPPING FACTOR:	0.10	
O.	OVEREXCAVATION:	52,762.41	CY
A.	CALCULATED CUT:	31,114	CY
B.	FOOTING AND UTILITY SPOILS	3,760	CY
B1.	UNDERGROUND STORAGE	6,703	CY
C.	**TOTAL CUT: (A+B)**	**45,124**	CY
D.	CALCULATED FILL:	29,995	CY
E.	LIGHT PAVING FILL:	-	CY
F.	SUBSIDENCE: (LxK)/27=	2,967	CY
G.	SHRINKAGE: (M/100)C=	4,512	CY
H.	SITE STRIPPING	2,373	
I.	OVEREXCAVATION SHRINKAGE	5,276	CY
J.	**TOTAL FILL: (D+E+F+G+H)=**	**45,124**	CY
K.	**TOTAL (IMPORT) OR EXPORT:**	**(0)**	CY

Last Update: 10/10/22
O:\4100-4199\4110\4110CGP01.dwg

CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT

CONCEPTUAL GRADING PLAN

27820 MEINES STREET
INDUSTRIAL DEVELOPMENT

PREPARED FOR:

LOVETT INDUSTRIAL
1730 E HOLLY AVENUE
EL SEGUNDO, CA 90245
PHONE: (949) 402-2760

PREPARED BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

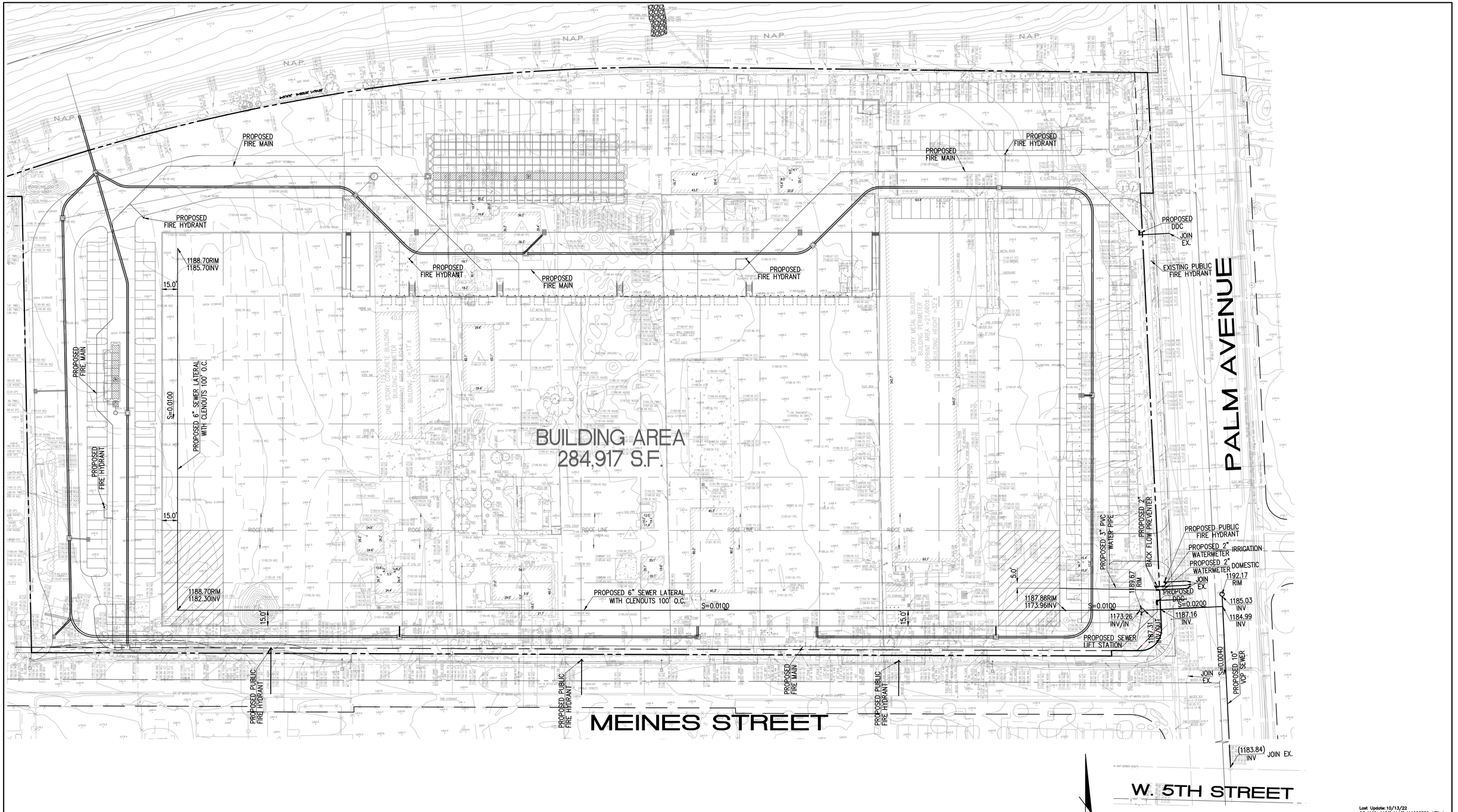
Designed by
Date
Checked by
Date
Designed by
Date
Checked by
Date

Approved by
Date

Public Works Director
R.C.E. XXXXX

Sheet 1 of 6 Sheets

4110/ 1 OF 6 SHEETS



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SCALE:1"=40'

Last Update: 10/13/22
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CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT

CONCEPTUAL UTILITY PLAN

27820 MEINES STREET INDUSTRIAL DEVELOPMENT

4110/2 OF 6 SHEETS

PREPARED FOR:

LOVETT INDUSTRIAL
1730 E HOLLY AVENUE
EL SEGUNDO, CA 90245
PHONE: (949) 402-2760

PREPARED BY:

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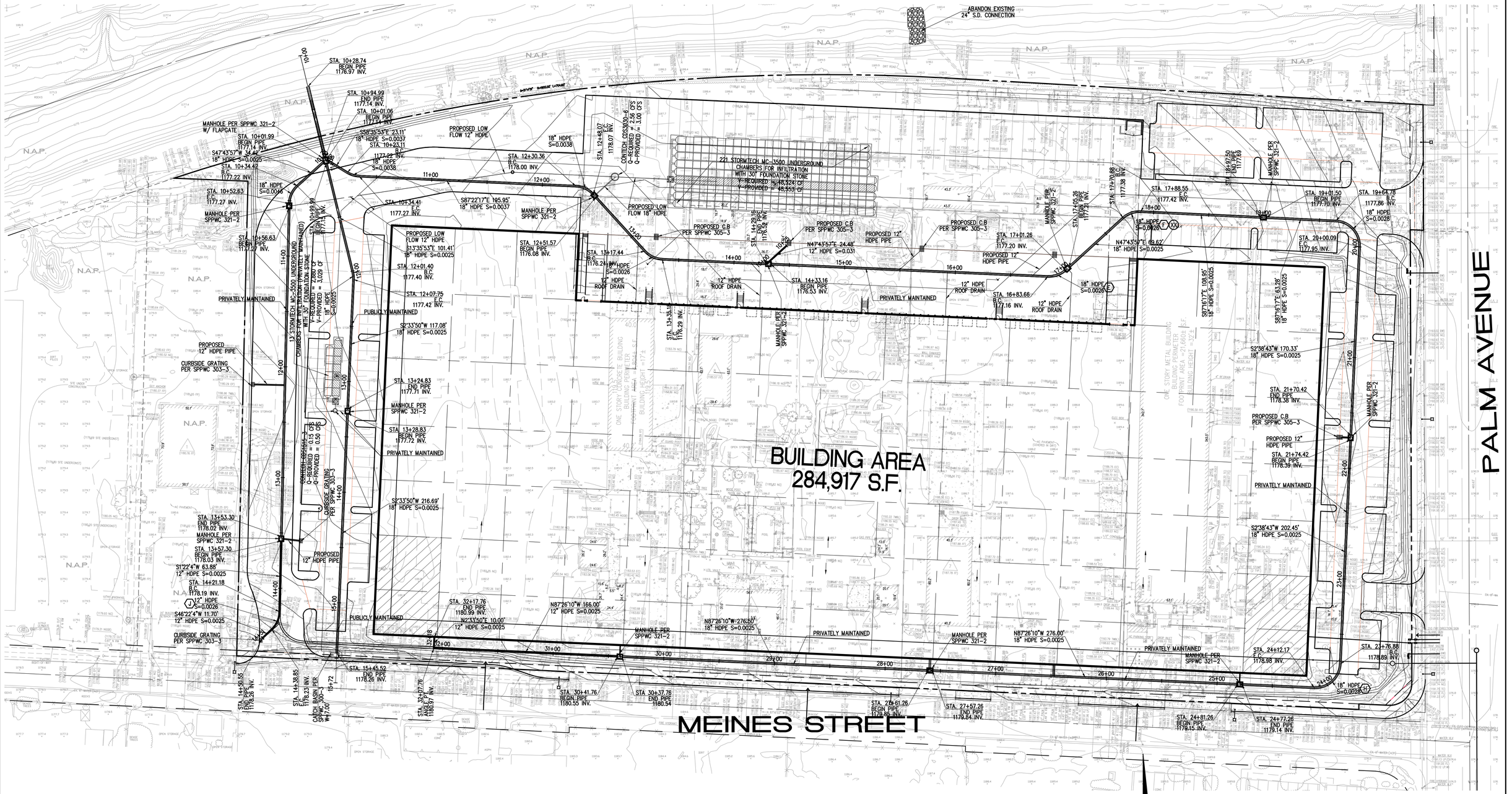
PH.(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

Public Works Director _____ R.C.E. XXXXX

Sheet 2 of 6 Sheets



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Last Update:10/10/22
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CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT

CONCEPTUAL STORM DRAIN PLAN

27820 MEINES STREET INDUSTRIAL DEVELOPMENT

4110/ 3OF 6 SHEETS

PREPARED FOR:

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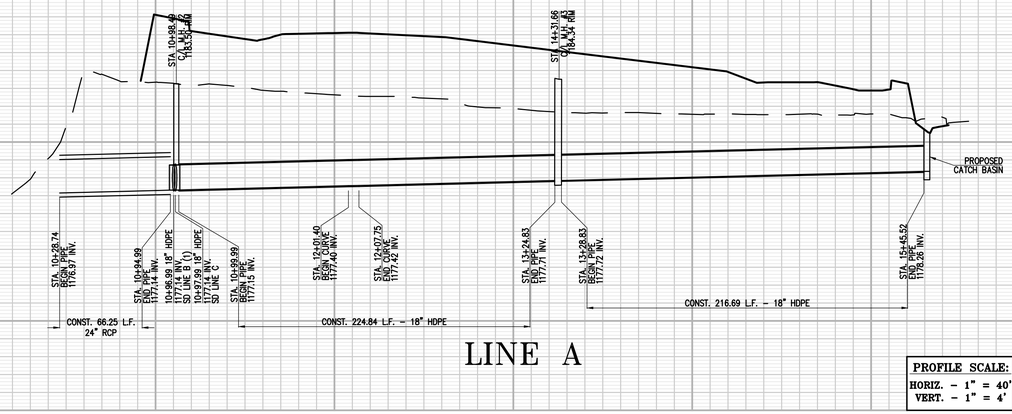
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

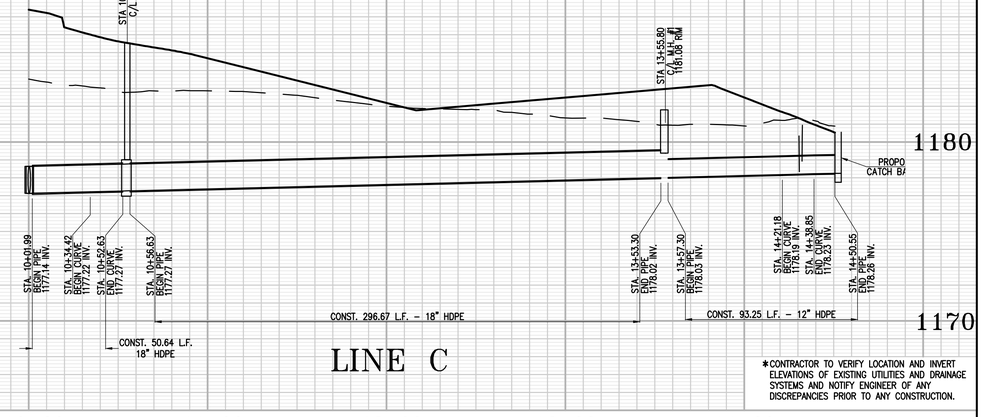
Public Works Director _____ R.C.E. XXXXX

Sheet 3 of 6 Sheets



LINE A

PROFILE SCALE:
HORIZ. - 1" = 40'
VERT. - 1" = 4'



LINE C

*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

Last Update: 10/10/22
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CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT

CONCEPTUAL STORM DRAIN PLAN

27820 MEINES STREET INDUSTRIAL DEVELOPMENT

PREPARED FOR:

LOVETT INDUSTRIAL
1730 E HOLLY AVENUE
EL SEGUNDO, CA 90245
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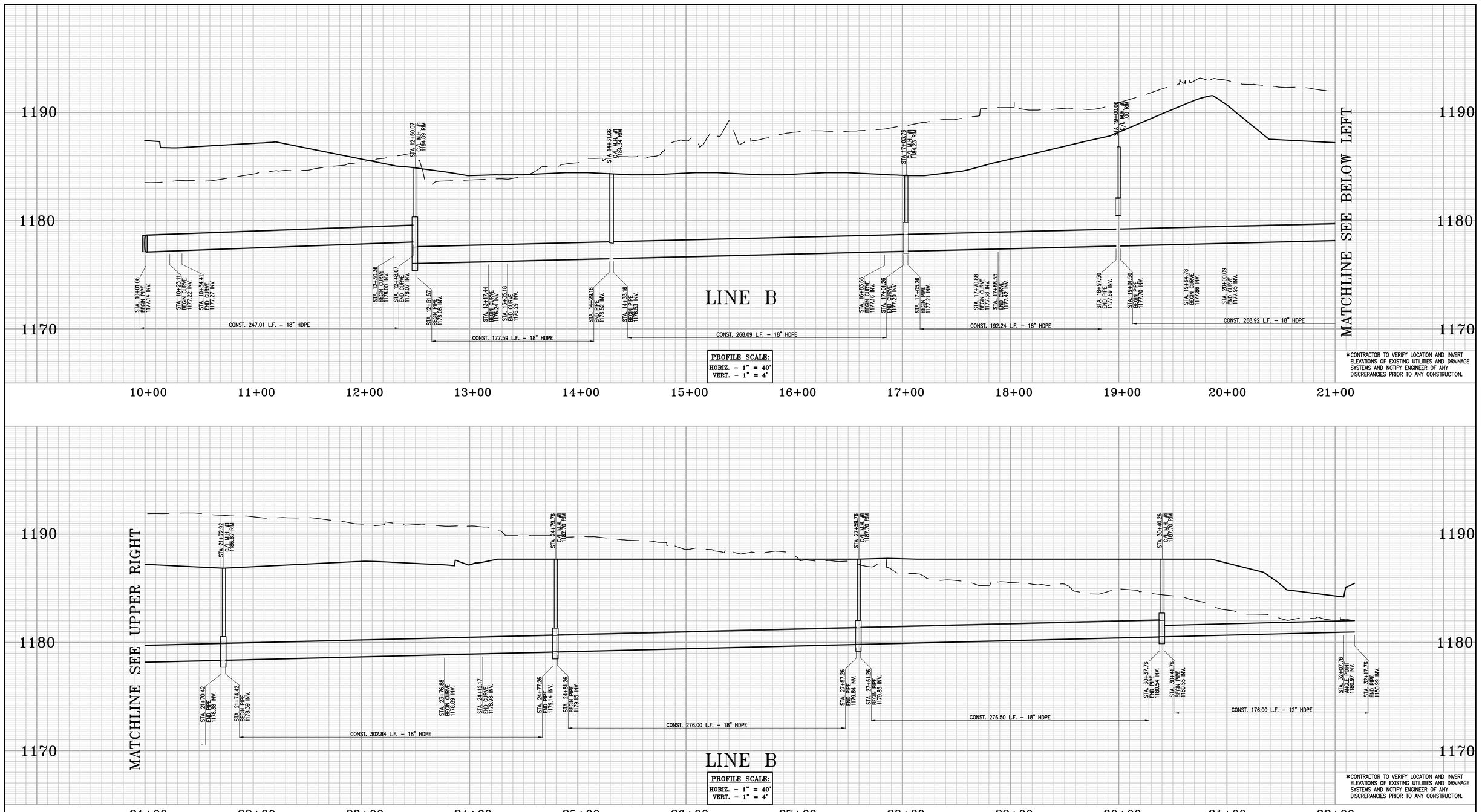
Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

Public Works Director R.C.E. XXXXX

Sheet 4 of 6 Sheets

4110/4 OF 6 SHEETS



*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

Last Update: 10/10/22
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CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT

CONCEPTUAL STORM DRAIN PLAN

27820 MEINES STREET INDUSTRIAL DEVELOPMENT

4110/5 OF 6 SHEETS

PREPARED FOR:

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1730 E HOLLY AVENUE
EL SEGUNDO, CA 90245
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PREPARED BY:

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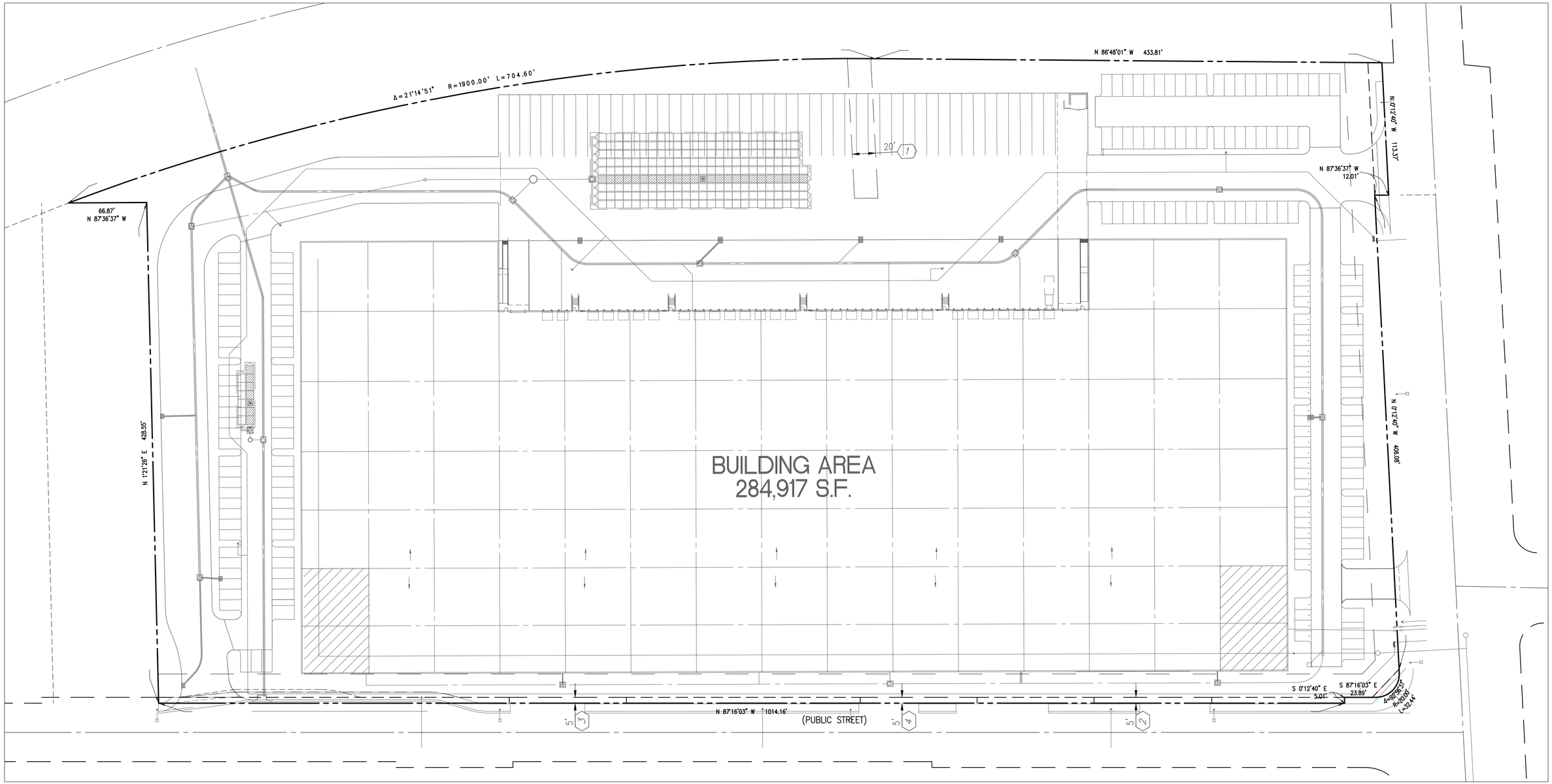
Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

Public Works Director _____ R.C.E. XXXXX

Sheet 5 of 6 Sheets



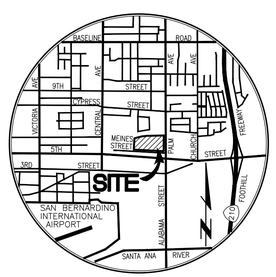
EXISTING EASEMENTS:

(1) AN EASEMENT FOR INGRESS AND EGRESS AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED AS BOOK 2279, PAGE 577 OF OFFICIAL RECORDS.
(AFFECTS PARCEL EIGHT)
(AFFECTS TR3 PARCEL EIGHT)

(2) AN EASEMENT FOR ROAD AND INCIDENTAL PURPOSES, RECORDED APRIL 4, 1969 AS BOOK 7209, PAGE 165 OF OFFICIAL RECORDS.
IN FAVOR OF: COUNTY OF SAN BERNARDINO
AFFECTS: PARCEL FOUR, AS DESCRIBED THEREIN

(3) AN EASEMENT FOR ROAD AND HIGHWAY AND INCIDENTAL PURPOSES, RECORDED DECEMBER 9, 1994 AS INSTRUMENT NO. 488386 OF OFFICIAL RECORDS.
IN FAVOR OF: CITY OF HIGHLAND
AFFECTS: PARCEL ONE, AS DESCRIBED THEREIN
(AFFECTS TR3 PARCEL ONE)

(4) *EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:*
GRANTED TO: COUNTY OF SAN BERNARDING, A BODY CORPORATE AND POLITIC OF THE STATE OF CALIFORNIA PURPOSE: HIGHWAY AND ROAD PURPOSES
RECORDING DATE: FEBRUARY 12, 1987 RECORDING NO: 87-047815 OF OFFICIAL RECORDS
AFFECTS: A PORTION OF SAID LAND AS MORE PARTICULARLY DESCRIBED IN SAID DOCUMENT.
(AFFECTS PORTIONS OF TR1, TR2, AND TR4.)



VICINITY MAP
N.T.S.

0 20 40 80 120
SCALE:1"=40'

Last Update: 10/10/22
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CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT

EASEMENT EXHIBIT

27820 MEINES STREET INDUSTRIAL DEVELOPMENT

4110/6 OF 6 SHEETS

PREPARED FOR:
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PREPARED BY:
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LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

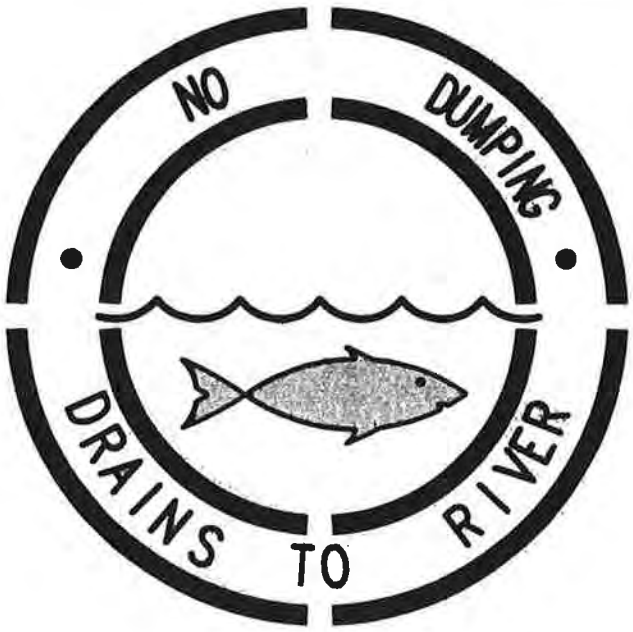
Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____
Public Works Director R.C.E. XXXXX

Sheet 6 of 6 Sheets

Attachment D
WQMP and Stormwater BMP Transfer, Access and Maintenance Agreement

Attachment E
Educational Materials



SAMPLE STENCIL TO BE USED NEAR GRATE AND CURB OPENING INLETS

SYMBOL TO BE 24" IN DIAMETER

Thienes Engineering
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14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
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SAMPLE CATCH BASIN STENCIL
PER BMP SD-13

CONTECH®
ENGINEERED SOLUTIONS

CDS® Inspection and Maintenance Guide

CDS TECHNOLOGIES

Maintenance

The CDS system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size of the unit. For example, unstable soils or heavy winter sanding will cause the grit chamber to fill more quickly but regular sweeping of paved surfaces will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant transport and deposition may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. At a minimum, inspections should be performed twice per year (e.g. spring and fall) however more frequent inspections may be necessary in climates where winter sanding operations may lead to rapid accumulations, or in equipment washdown areas. Installations should also be inspected more frequently where excessive amounts of trash are expected.

The visual inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet and separation screen. The inspection should also quantify the accumulation of hydrocarbons, trash, and sediment in the system. Measuring pollutant accumulation can be done with a calibrated dipstick, tape measure or other measuring instrument. If absorbent material is used for enhanced removal of hydrocarbons, the level of discoloration of the sorbent material should also be identified during inspection. It is useful and often required as part of an operating permit to keep a record of each inspection. A simple form for doing so is provided.

Access to the CDS unit is typically achieved through two manhole access covers. One opening allows for inspection and cleanout of the separation chamber (cylinder and screen) and isolated sump. The other allows for inspection and cleanout of sediment captured and retained outside the screen. For deep units, a single manhole access point would allows both sump cleanout and access outside the screen.

The CDS system should be cleaned when the level of sediment has reached 75% of capacity in the isolated sump or when an appreciable level of hydrocarbons and trash has accumulated. If absorbent material is used, it should be replaced when significant discoloration has occurred. Performance will not be impacted until 100% of the sump capacity is exceeded however it is recommended that the system be cleaned prior to that for easier removal of sediment. The level of sediment is easily determined by measuring from finished grade down to the top of the sediment pile. To avoid underestimating the level of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Particles at the top of the pile typically offer less resistance to the end of the rod than consolidated particles toward the bottom of the pile. Once this measurement is recorded, it should be compared to the as-built drawing for the unit to determine weather the height of the sediment pile off the bottom of the sump floor exceeds 75% of the total height of isolated sump.

Cleaning

Cleaning of a CDS systems should be done during dry weather conditions when no flow is entering the system. The use of a vacuum truck is generally the most effective and convenient method of removing pollutants from the system. Simply remove the manhole covers and insert the vacuum hose into the sump. The system should be completely drained down and the sump fully evacuated of sediment. The area outside the screen should also be cleaned out if pollutant build-up exists in this area.

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, the system should be cleaned out immediately in the event of an oil or gasoline spill should be cleaned out immediately. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use absorbent pads since they are usually less expensive to dispose than the oil/water emulsion that may be created by vacuuming the oily layer. Trash and debris can be netted out to separate it from the other pollutants. The screen should be power washed to ensure it is free of trash and debris.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and also to ensure that proper safety precautions have been followed. Confined space entry procedures need to be followed if physical access is required. Disposal of all material removed from the CDS system should be done in accordance with local regulations. In many jurisdictions, disposal of the sediments may be handled in the same manner as the disposal of sediments removed from catch basins or deep sump manholes.

CDS Model	Diameter		Distance from Water Surface to Top of Sediment Pile		Sediment Storage Capacity	
	ft	m	ft	m	yd3	m3
CDS2015-4	4	1.2	3.0	0.9	0.5	0.4
CDS2015	5	1.5	3.0	0.9	1.3	1.0
CDS2020	5	1.5	3.5	1.1	1.3	1.0
CDS2025	5	1.5	4.0	1.2	1.3	1.0
CDS3020	6	1.8	4.0	1.2	2.1	1.6
CDS3030	6	1.8	4.6	1.4	2.1	1.6
CDS3035	6	1.8	5.0	1.5	2.1	1.6
CDS4030	8	2.4	4.6	1.4	5.6	4.3
CDS4040	8	2.4	5.7	1.7	5.6	4.3
CDS4045	8	2.4	6.2	1.9	5.6	4.3

Table 1: CDS Maintenance Indicators and Sediment Storage Capacities

Support

- Drawings and specifications are available at www.contechstormwater.com.
- Site-specific design support is available from our engineers.

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Contech Engineered Solutions LLC provides site solutions for the civil engineering industry. Contech's portfolio includes bridges, drainage, sanitary sewer, stormwater, earth stabilization and wastewater treament products. For information, visit www.ContechES.com or call 800.338.1122

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The product(s) described may be protected by one or more of the following US patents: 5,322,629; 5,624,576; 5,707,527; 5,759,415; 5,788,848; 5,985,157; 6,027,639; 6,350,374; 6,406,218; 6,641,720; 6,511,595; 6,649,048; 6,991,114; 6,998,038; 7,186,058; 7,296,692; 7,297,266; 7,517,450 related foreign patents or other patents pending.

CONTECH ENGINEERED SOLUTIONS
800.925.5240
www.ContechES.com

CDS Inspection & Maintenance Log

CDS Model: _____ Location: _____

Date	Water depth to sediment[1]	Floatable Layer Thickness[2]	Describe Maintenance Performed	Maintenance Personnel	Comments

1. The water depth to sediment is determined by taking two measurements with a stadia rod: one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. If the difference between these measurements is less than the values listed in table 1 the system should be cleaned out. **Note: to avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.**

2. For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.

WASHINGTON STATE DEPARTMENT OF ECOLOGY

August 2018

GENERAL USE LEVEL DESIGNATION FOR PRETREATMENT (TSS)

For

CONTECH Engineered Solutions CDS® System

Ecology's Decision:

Based on the CONTECH Engineered Solutions (CONTECH) application submissions for the CDS® System, Ecology hereby issues the following use designations for the CDS storm water treatment system:

1. **General Use Level Designation (GULD) for pretreatment use, as defined in Ecology's 2011 *Technical Guidance Manual for Evaluating Emerging Stormwater Treatment Technologies Technology Assessment Protocol – Ecology (TAPE)* Table 2, (a) ahead of infiltration treatment, or (b) to protect and extend the maintenance cycle of a basic, enhanced, or phosphorus treatment device (e.g., sand or media filter). This GULD applies to 2,400 micron screen CDS® units sized per the table below.**

2. **The following table shows flowrates associated with various CDS models:**

		CDS Model	Water Quality Flow cfs	Water Quality Flow L/s
Precast**	Inline or Offline	CDS 2015-4	0.7	19.8
		CDS 2015-5	0.7	19.8
		CDS 2020-5	1.1	31.2
		CDS2025-5	1.6	45.3
		CDS3020-6	2	56.6
		CDS3030-6	3	85.0
		CDS3035-6	3.8	106.2
		CDS4030-8	4.5	127.4
		CDS4040-8	6	169.9
		CDS4045-8	7.5	212.4
		CDS5640-10	9	254.9
		CDS5653-10	14	396.5
		CDS5668-10	19	538.1
		CDS5678-10	25	7.08
Precast*	Offline Only	CDS3030-V	3	85
		CDS4030-7	4.5	127.4
		CDS4040-7	6	169.9

		CDS4045-7	7.5	212.4
		CDS5640-8	9	254.9
		CDS5653-8	14	396.5
		CDS5668-8	19	538.1
		CDS5678-8	25	708
		CDS5042	9	254.9
		CDS5050	11	311.5
		CDS7070	26	736.3
		CDS10060	30	849.6
		CDS10080	50	1416
		CDS100100	64	1812.5
Cast In Place		CDS150134-22	148	4191.4
		CDS200164-26	270	7646.6
		CDS240160-32	300	8496.2

***Specially Designed CDS Units may be approved by Ecology on a on a site-by-site basis.**
****Contact Contech for updated model numbers if PMIU, PMSU, PSW, PSWC are specified.**

3. **The water quality design flow rates are calculated using the following procedures:**

   - **Western Washington: For treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute flow rate as calculated using the latest version of the Western Washington Hydrology Model or other Ecology-approved continuous runoff model.**

   - **Eastern Washington: For treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute flow rate as calculated using one of the three methods described in Chapter 2.2.5 of the Stormwater Management Manual for Eastern Washington (SWMMEW) or local manual.**

   - **Entire State: For treatment installed downstream of detention, the water quality design flow rate is the full 2-year release rate of the detention facility.**

4. **The pretreatment GULD has no expiration date; however, Ecology may amend or revoke the designation.**

5. **All designations are subject to the conditions specified below.**

6. **Properly designed and operated CDS systems may also have applicability in other situations (example: low-head situations such as bridges or ferry docks), for TSS where, on a case-by-case basis, it is found to be infeasible or impracticable to use any other approved practice. Jurisdictions covered under the Phase I or II municipal stormwater permits should use variance/exception procedures and criteria as required by their NPDES permit.**

7. **Ecology finds that the CDS, sized according to the table above, could also provide water quality benefits in retrofit situations.**

Ecology's Conditions of Use:

CDS systems shall comply with these conditions:

1. **Design, assemble, install, operate, and maintain CDS Systems in accordance with Contech's applicable manuals and documents and the Ecology decision and conditions specified herein. Ecology recommends use of the inspection and maintenance schedule included as Attachment 1.**

2. **Maintenance: The required inspection/maintenance interval for stormwater treatment devices is often dependent upon the efficiency of the device and the degree of pollutant loading from a particular drainage basin. Therefore, Ecology does not endorse or recommend a "one size fits all" maintenance cycle for a particular model/size of manufactured treatment device.**
    - **Owners/operators must inspect the CDS™ System for a minimum of twelve months from the start of post-construction operation to determine site-specific maintenance schedules and requirements. You must conduct inspections monthly during the wet season, and every other month during the dry season. (According to SWMMWW, the wet season for western Washington is October 1 to April 30. According to SWMMEW, the wet season in eastern Washington is October 1 to June 30). After the first year of operation, owners/operators must conduct inspections based on the findings during the first year of inspections.**
    - **Conduct inspections by qualified personnel, follow manufacturer's guidelines, and use methods capable of determining either a decrease in treated effluent flow rate and/or a decrease in pollutant removal ability.**

3. **Discharges from the CDS System shall not cause or contribute to water quality standards violations in receiving waters.**

Applicant: Contech Engineered Solutions

Applicant's Address: 11835 NE Glen Widing Drive
Portland, OR 97220

Application Documents:

- Contech Stormwater Solutions Application to: Washington State Department of Ecology Water Quality Program for General Use Level Designation – Pretreatment Applications and Conditional Use Level Designation – Oil Treatment of the Continuous Deflective Separation (CDS™) Technology (June 2007)

- Strynchuk, Royal, and England, *The Use of a CDS Unit for Sediment Control in Brevard County*.

- Walker, Allison, Wong, and Wootton, *Removal of Suspended Solids and Associated Pollutants by a CDS Gross Pollutant Trap*, Cooperative Research Centre for Catchment Hydrology, Report 99/2, February 1999

- Allison, Walker, Chiew, O'Neill, McMahon, *From Roads to Rivers Gross Pollutant Removal from Urban Waterways*, Cooperative Research Centre for Catchment Hydrology, Report 98/6, May 1998

Applicant's Use Level Request:

- General use level designation as a pretreatment device and conditional use level designation as an oil and grease device in accordance with Ecology's *Stormwater Management Manual for Western Washington.*

Applicant's Performance Claims:

Based on laboratory trials, the CDS™ System will achieve 50% removal of total suspended solids with d_{50} of 50-µm and 80% removal of total suspended solids with d_{50} of 125-µm at 100% design flowrate with typical influent concentration of 200-mg/L.

Ecology's Recommendation:

Ecology finds that:

- The CDS™ system, sized per the table above, should provide, at a minimum, equivalent performance to a presettling basin as defined in the most recent *Stormwater Management Manual for Western Washington, Volume V, Chapter 6*.

Findings of Fact:

1. Laboratory testing was completed on a CDS 2020 unit equipped with 2400-µm screen using OK-110 sand (d_{50} of 106-µm) at flowrates ranging from 100 to 125% of the design flowrate (1.1 cfs) with a target influent of 200 mg/L. Laboratory results for the OK-110 sand showed removal rates from about 65% to 99% removal with 80% removal occurring near 70% of the design flowrate.
2. Laboratory testing was completed on a CDS 2020 unit equipped with 2400-µm screen using "UF" sediment (d_{50} of 20 to 30-µm) at flowrates ranging from 100 to 125% of the design flowrate (1.1 cfs) with a target influent of 200 mg/L. Laboratory results for the "UF" sediment showed removal rates from about 42% to 94% removal with 80% removal occurring at 5% of the design flowrate.

3. Laboratory testing was completed on a CDS 2020 unit equipped with 4700-µm screen using OK-110 sand (d_{50} of 106-µm) at flowrates ranging from 100 to 125% of the design flowrate (1.1 cfs) with a target influent of 200 mg/L. Laboratory results for the OK-110 sand showed removal rates from about 45% to 99% removal with an average removal of 83.1%.
4. Laboratory testing was completed on a CDS 2020 unit equipped with 4700-µm screen using "UF" sediment (d_{50} of 20 to 30-µm) at flowrates ranging from 100 to 125% of the design flowrate (1.1 cfs) with a target influent of 200 mg/L. Laboratory results for the "UF" sediment showed removal rates from about 39% to 88% removal with an average removal of 56.1%.
5. Contech completed laboratory testing on a CDS2020 unit using motor oil at flowrates ranging from 25% to 75% of the design flowrate (1.1 cfs) with influents ranging from 7 to 47 mg/L. Laboratory results showed removal rates from 27% to 92% removal. A spill test was also run at 10% of the design flowrate with an influent of 82,000 mg/L with an average percent capture of 94.5%
6. Independent parties in California, Florida, and Australia completed various field studies. Field studies showed the potential for the unit to remove oils and grease and total suspended solids, and capture 100% gross solids greater than the aperture size of the screen under treatment flow rate.
7. CDS Technology has been widely accepted with over 6,200 installations in the United States and Canada. There are over 1,380 installations in Washington and Oregon.

Technology Description:

Engineers can download a technology description from the company's website.
www.conteches.com

Recommended Research and Development:

Ecology encourages Contech to pursue continuous improvements to the CDS system. To that end, Ecology makes the following recommendations:

1. Conduct testing to quantify the flowrate at which resuspension occurs.
2. Conduct testing on various sized CDS units to verify the sizing technique is appropriate.
3. Test the system under normal operating conditions, pollutants partially filling the swirl concentrator. Results obtained for "clean" systems may not be representative of typical performance.

Contact Information:

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Contech Engineered Solutions
(503) 258-3136
jlehman@conteches.com

Applicant website: http://www.conteches.com/

Ecology web link: http://www.ecy.wa.gov/programs/wq/stormwater/newtech/index.html

Ecology: Douglas C. Howie. P.E.
Department of Ecology
Water Quality Program
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Revision History

Date	Revision
July 2008	Original use-level-designation document
February 2010	Reinstate Contech's Oil Control PULD
August 2012	Revised design storm criteria, revised oil control QAPP, TER, and Expiration dates
December 2012	Revised Contech Engineered Solutions Contact Information; Added QAPP for Oil Treatment
May 2013	Revised model numbers in Attachment 1
April 2014	Revised Due dates for QAPP and TER and changed Expiration date
August 2014	Revised Due dates for QAPP and TER and changed Expiration date
July 2016	Updated Oil Control PULD to a CULD based on preliminary field monitoring results
November 2016	Revised Contech Contact person
August 2018	Removed CULD for Oil from document

Attachment 1
CDS Stormwater Treatment Unit Checklist

Frequency	Drainage System Feature	Problem	Conditions to Check For	Recommended Action	Date Inspected*											
					J	F	M	A	M	J	J	A	S	O	N	D
M & S	Inlet Chamber	Accumulation of trash, debris and sediment	Trash blocking inlet throat opening & sediment accumulation exceeds 2 inches	Remove trash, debris, and sediments. Inlet throat opening should not be blocked by any materials.												
A	Screen	Blockage/Damage	Biological growth on the surface of the screen; broken screen or loose screen	Powerwash screen to clean the surface and Contact CSS for screen repair (broken or loose)												
M	Separation Chamber	Trash and floatable debris accumulation	Excessive trash and floatable debris accumulation on the surface in separation chamber	Remove trash or other floatable debris in separation chamber to minimum level												
A	Oil Baffle**	Damaged	Baffles corroding, cracking, warping, and/or showing signs of failure as determined by maintenance/inspection person.	Baffles repaired or replaced to design specifications.												
M & S	Oil sorbent**	Consumed	Change of color in sorbents (fresh sorbents typically appears to be white or light yellow)	Remove spent oil sorbent and replace with new sorbent												
M	Sediment Depth in the Sump	Sediment accumulation	Sediment accumulation exceeds 75-85% sump depth (varies depending on the Model, see attached Table)	Sediment in sump should be removed using vactor truck.												
M	Sediment Depth behind the screen	Sediment accumulation	Sediment accumulation exceeds 2 inches behind the screen	Sediment behind the screen should be removed using vactor truck.												

Frequency	Drainage System Feature	Problem	Conditions to Check For	Recommended Action	Date Inspected*											
					J	F	M	A	M	J	J	A	S	O	N	D
M	Access Cover (MH, Grate, cleanout)	Access cover Damaged/ Not working	One maintenance person cannot remove lid after applying 80 pounds of lift, corrosion of deformation of cover.	Cover repaired to proper working specifications or replaced.												
A	Inlet and Outlet Piping	Damaged Piping/Leaking	Any part of the pipes are crushed or damaged due to corrosion and/or settlement.	Pipe repaired or replaced.												
A	Concrete Structure	Concrete structure (MH or diversion vault) has cracks in wall, bottom, and damage to frame and/or top slab.	Cracks wider than ½ inch or evidence of soil particles entering the structure through the cracks, or maintenance/inspection personnel determine that the structure is not structurally sound.	Structure repaired so that no cracks exist wider than 0.25 inch at the joint of inlet/outlet pipe.												
A	Access Ladder	Ladder rungs unsafe	Maintenance person judges that ladder is unsafe due to missing rungs, misalignment, rust, or cracks. Ladder must be fixed or secured immediately.	Ladder meets design standards and allows maintenance persons safe access.												

*Note dates when maintenance was performed and type of maintenance performed in notes section below.
**May not be present on all units.

(M) Monthly from November through April.
(A) Once in late summer (preferable September)
(S) After any major storm (use 1-inch in 24 hours as a guideline).

If you are unsure whether a problem exists, please contact a Professional Engineer.

Notes:

Maintenance of CDS stormwater treatment unit typically does not require confined space entry. Visual inspections should be performed above ground. If entry is required, it should be performed by qualified personnel.

Refer to CDS Unit Operation & Maintenance Guideline for maintenance details. Typically the CDS unit needs to be inspected before and after the rainfall seasons (November to April), after any major storms (>1-inch within 24 hour) and in the event of chemical spills.

Contact Contech Engineered Solutions (CSS) (800-548-4667) if there is any damage to the internal components of CDS Unit.

CDS Maintenance Indicators and Sediment Storage Capacities

CDS Model	Diameter		Distance from Water Surface to Top of Sediment Pile		Sediment Storage Capacity	
	ft	m	ft	m	yd^3	m^3
CDS2015	5	1.5	3.0	0.9	1.3	1.0
CDS2020	5	1.5	3.5	1.1	1.3	1.0
CDS2025	5	1.5	4.0	1.2	1.3	1.0
CDS3020	6	1.8	4.0	1.2	2.1	1.6
CDS3030	6	1.8	4.6	1.4	2.1	1.6
CDS3035	6	1.8	5.0	1.5	2.1	1.6
CDS4030	8	2.4	4.6	1.4	5.6	4.3
CDS4040	8	2.4	5.7	1.7	5.6	4.3
CDS4045	8	2.4	6.2	1.9	5.6	4.3

STORMTECH MC-3500 CHAMBER

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.

STORMTECH MC-3500 CHAMBER
(not to scale)

Nominal Chamber Specifications

Size (L x W x H)
90" x 77" x 45"
2,286 mm x 1,956 mm x 1,143 mm

Chamber Storage
109.9 ft³ (3.11 m³)

Min. Installed Storage*
175.0 ft³ (4.96 m³)

Weight
134 lbs (60.8 kg)

Shipping
15 chambers/pallet
7 end caps/pallet
7 pallets/truck

*Assumes a minimum of 12" (300 mm) of stone above, 9" (230 mm) of stone below chambers, 6" (150 mm) of stone between chambers/end caps and 40% stone porosity.

STORMTECH MC-3500 END CAP
(not to scale)

Nominal End Cap Specifications

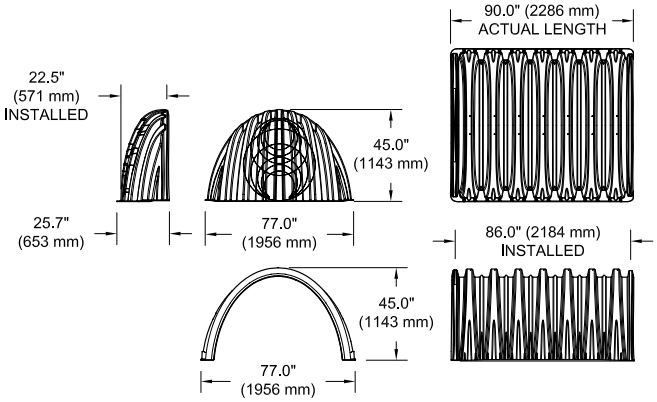
Size (L x W x H)
26.5" x 71" x 45.1"
673 mm x 1,803 mm x 1,145 mm

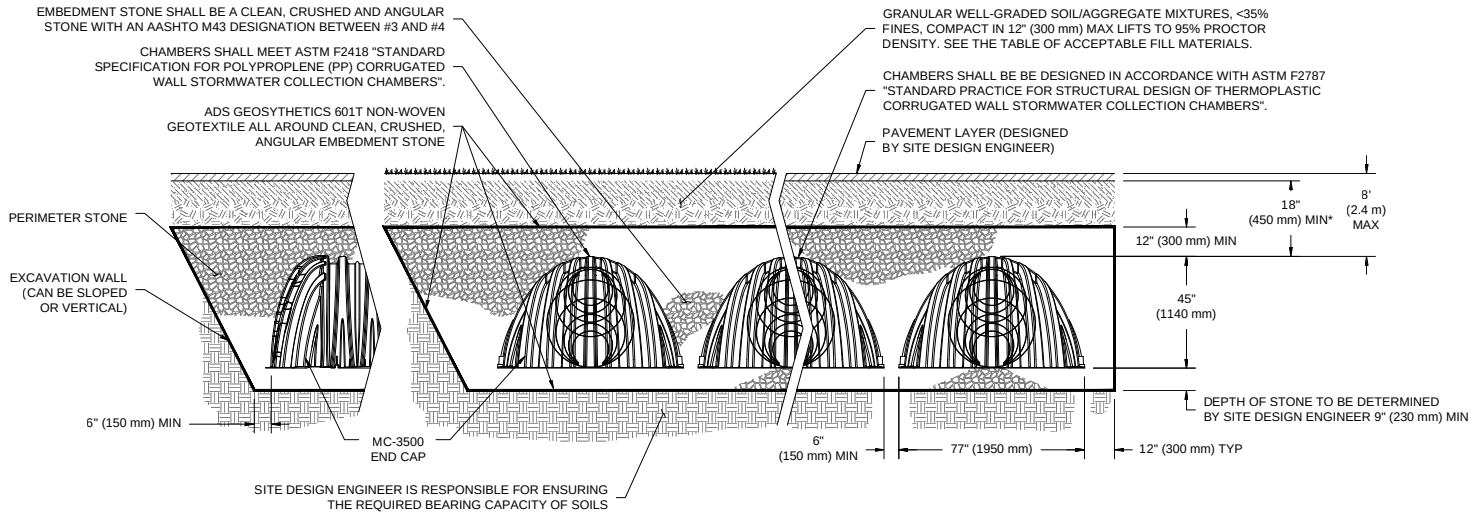
End Cap Storage
14.9 ft³ (0.42 m³)

Min. Installed Storage*
45.1ft³ (1.28 m³)

Weight
49 lbs (22.2 kg)

*Assumes a minimum of 12" (300 mm) of stone above, 9" (230 mm) of stone below, 6" (150 mm) of stone perimeter, 6" (150 mm) of stone between chambers/end caps and 40% stone porosity.





*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).

MC-3500 CHAMBER SPECIFICATION

STORAGE VOLUME PER CHAMBER FT³ (M³)

	Bare Chamber Storage ft³ (m³)	Chamber and Stone Foundation Depth in. (mm)			
		9" (230 mm)	12" (300 mm)	15" (375 mm)	18" (450 mm)
MC-3500 Chamber	109.9 (3.11)	175.0 (4.96)	179.9 (5.09)	184.9 (5.24)	189.9 (5.38)
MC-3500 End Cap	14.9 (.42)	45.1 (1.28)	46.6 (1.32)	48.3 (1.37)	49.9 (1.41)

Note: Assumes 6" (150 mm) row spacing, 40% stone porosity, 12" (300 mm) stone above and includes the bare chamber/end cap volume.

AMOUNT OF STONE PER CHAMBER

ENGLISH TONS (yds³)	Stone Foundation Depth			
	9"	12"	15"	18"
MC-3500 Chamber	8.5 (6.0)	9.1 (6.5)	9.7 (6.9)	10.4 (7.4)
MC-3500 End Cap	3.9 (2.8)	4.1 (2.9)	4.3 (3.1)	4.5 (3.2)
METRIC KILOGRAMS (m³)	**230 mm**	**300 mm**	**375 mm**	**450 mm**
MC-3500 Chamber	7711 (4.6)	8255 (5.0)	8800 (5.3)	9435 (5.7)
MC-3500 End Cap	3538 (2.1)	3719 (2.2)	3901 (2.4)	4082 (2.5)

Note: Assumes 12" (300 mm) of stone above and 6" (150 mm) row spacing and 6" (150 mm) of perimeter stone in front of end caps.

VOLUME EXCAVATION PER CHAMBER YD³ (M³)

	Stone Foundation Depth			
	9" (230 mm)	12" (300 mm)	15" (375mm)	18" (450 mm)
MC-3500 Chamber	11.9 (9.1)	12.4 (9.5)	12.8(9.8)	13.3 (10.2)
MC-3500 End Cap	4.0 (3.1)	4.1 (3.2)	4.3 (3.3)	4.4 (3.4)

Note: Assumes 6" (150 mm) of separation between chamber rows and 24" (600 mm) of cover. The volume of excavation will vary as depth of cover increases.

Working on a project?
Visit us at www.stormtech.com
and utilize the StormTech Design Tool

For more information on the StormTech MC-3500 Chamber and other ADS products, please contact our Customer Service Representatives at 1-800-821-6710

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Isolator® Row O&M Manual

THE MOST **ADVANCED** NAME IN WATER MANAGEMENT SOLUTIONS™

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THE ISOLATOR® ROW

INTRODUCTION

An important component of any Stormwater Pollution Prevention Plan is inspection and maintenance. The StormTech Isolator Row is a technique to inexpensively enhance Total Suspended Solids (TSS) removal and provide easy access for inspection and maintenance.

THE ISOLATOR ROW

The Isolator Row is a row of StormTech chambers, either SC-160LP, SC-310, SC-310-3, SC-740, DC-780, MC-3500 or MC-4500 models, that is surrounded with filter fabric and connected to a closely located manhole for easy access. The fabric-wrapped chambers provide for settling and filtration of sediment as storm water rises in the Isolator Row and ultimately passes through the filter fabric. The open bottom chambers and perforated sidewalls (SC-310, SC- 310-3 and SC-740 models) allow storm water to flow both vertically and horizontally out of the chambers. Sediments are captured in the Isolator Row protecting the storage areas of the adjacent stone and chambers from sediment accumulation.

Two different fabrics are used for the Isolator Row. A woven geotextile fabric is placed between the stone and the Isolator Row chambers. The tough geotextile provides a media for storm water filtration and provides a durable surface for maintenance operations. It is also designed to prevent scour of the underlying stone and remain intact during high pressure jetting. A non-woven fabric is placed over the chambers to provide a filter media for flows passing through the perforations in the sidewall of the chamber. The non-woven fabric is not required over the SC-160LP, DC-780, MC-3500 or MC-4500 models as these chambers do not have perforated side walls.

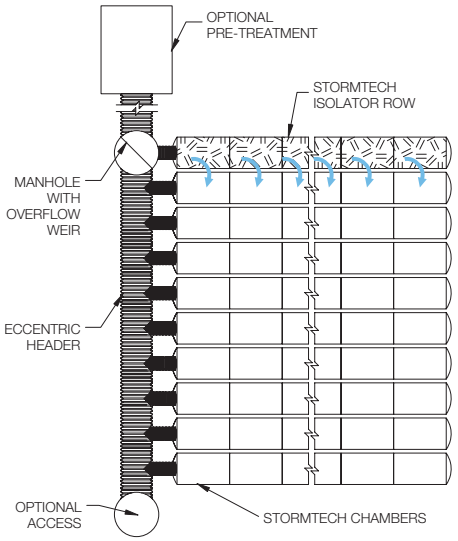
The Isolator Row is typically designed to capture the “first flush” and offers the versatility to be sized on a volume basis or flow rate basis. An upstream manhole not only provides access to the Isolator Row but typically includes a high flow weir such that storm water flowrates or volumes that exceed the capacity of the Isolator Row overtop the over flow weir and discharge through a manifold to the other chambers.

The Isolator Row may also be part of a treatment train. By treating storm water prior to entry into the chamber system, the service life can be extended and pollutants such as hydrocarbons can be captured. Pre-treatment best management practices can be as simple as deep sump catch basins, oil-water separators or can be innovative storm water treatment devices. The design of the treatment train and selection of pretreatment devices by the design engineer is often driven by regulatory requirements. Whether pretreatment is used or not, the Isolator Row is recommended by StormTech as an effective means to minimize maintenance requirements and maintenance costs.

Note: See the StormTech Design Manual for detailed information on designing inlets for a StormTech system, including the Isolator Row.

Looking down the Isolator Row from the manhole opening, woven geotextile is shown between the chamber and stone base.

StormTech Isolator Row with Overflow Spillway (not to scale)



ISOLATOR ROW INSPECTION/MAINTENANCE

INSPECTION

The frequency of inspection and maintenance varies by location. A routine inspection schedule needs to be established for each individual location based upon site specific variables. The type of land use (i.e. industrial, commercial, residential), anticipated pollutant load, percent imperviousness, climate, etc. all play a critical role in determining the actual frequency of inspection and maintenance practices.

At a minimum, StormTech recommends annual inspections. Initially, the Isolator Row should be inspected every 6 months for the first year of operation. For subsequent years, the inspection should be adjusted based upon previous observation of sediment deposition.

The Isolator Row incorporates a combination of standard manhole(s) and strategically located inspection ports (as needed). The inspection ports allow for easy access to the system from the surface, eliminating the need to perform a confined space entry for inspection purposes.

If upon visual inspection it is found that sediment has accumulated, a stadia rod should be inserted to determine the depth of sediment. When the average depth of sediment exceeds 3 inches throughout the length of the Isolator Row, clean-out should be performed.

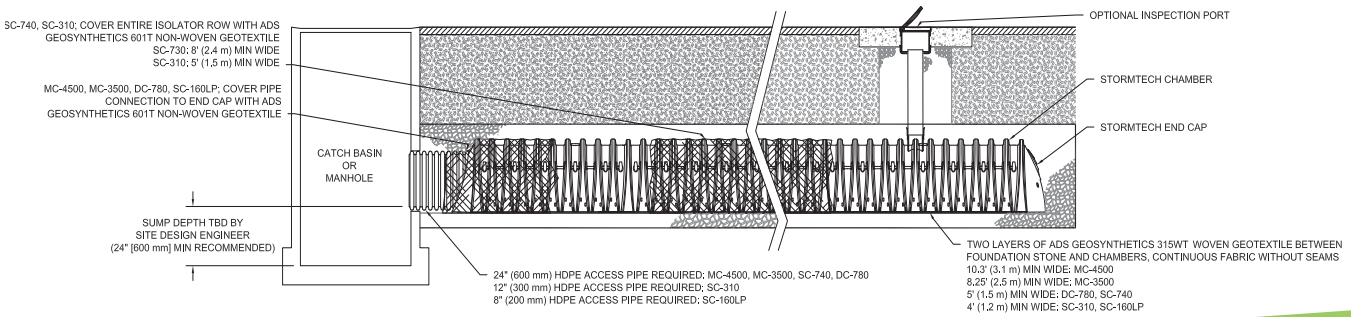
MAINTENANCE

The Isolator Row was designed to reduce the cost of periodic maintenance. By "isolating" sediments to just one row, costs are dramatically reduced by eliminating the need to clean out each row of the entire storage bed. If inspection indicates the potential need for maintenance, access is provided via a manhole(s) located on the end(s) of the row for cleanout. If entry into the manhole is required, please follow local and OSHA rules for a confined space entries.

Maintenance is accomplished with the JetVac process. The JetVac process utilizes a high pressure water nozzle to propel itself down the Isolator Row while scouring and suspending sediments. As the nozzle is retrieved, the captured pollutants are flushed back into the manhole for vacuuming. Most sewer and pipe maintenance companies have vacuum/JetVac combination vehicles. Selection of an appropriate JetVac nozzle will improve maintenance efficiency. Fixed nozzles designed for culverts or large diameter pipe cleaning are preferable. Rear facing jets with an effective spread of at least 45" are best. Most JetVac reels have 400 feet of hose allowing maintenance of an Isolator Row up to 50 chambers long. **The JetVac process shall only be performed on StormTech Isolator Rows that have AASHTO class 1 woven geotextile (as specified by StormTech) over their angular base stone.**

StormTech Isolator Row (not to scale)

Note: Non-woven fabric is only required over the inlet pipe connection into the end cap for SC-160LP, DC-780, MC-3500 and MC-4500 chamber models and is not required over the entire Isolator Row.



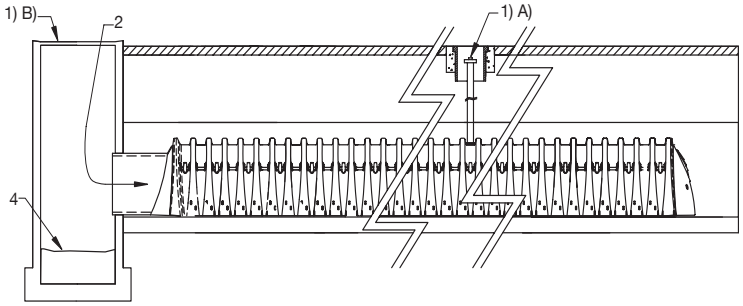
ISOLATOR ROW STEP BY STEP MAINTENANCE PROCEDURES

STEP 1
Inspect Isolator Row for sediment.
- A) Inspection ports (if present)
  - i. Remove lid from floor box frame
  - ii. Remove cap from inspection riser
  - iii. Using a flashlight and stadia rod,measure depth of sediment and record results on maintenance log.
  - iv. If sediment is at or above 3 inch depth, proceed to Step 2. If not, proceed to Step 3.
- B) All Isolator Rows
  - i. Remove cover from manhole at upstream end of Isolator Row
  - ii. Using a flashlight, inspect down Isolator Row through outlet pipe
    1. Mirrors on poles or cameras may be used to avoid a confined space entry
    2. Follow OSHA regulations for confined space entry if entering manhole
  - iii. If sediment is at or above the lower row of sidewall holes (approximately 3 inches), proceed to Step 2. If not, proceed to Step 3.

STEP 2
Clean out Isolator Row using the JetVac process.
- A) A fixed floor cleaning nozzle with rear facing nozzle spread of 45 inches or more is preferable
- B) Apply multiple passes of JetVac until backflush water is clean
- C) Vacuum manhole sump as required

STEP 3
Replace all caps, lids and covers, record observations and actions.

STEP 4
Inspect & clean catch basins and manholes upstream of the StormTech system.



SAMPLE MAINTENANCE LOG

Date	Stadia Rod Readings		Sediment Depth (1)–(2)	Observations/Actions	Inspector
	Fixed point to chamber bottom (1)	Fixed point to top of sediment (2)			
3/15/11	6.3 ft	none		New installation. Fixed point is CI frame at grade	DJM
9/24/11		6.2	0.1 ft	Some grit felt	SM
6/20/13		5.8	0.5 ft	Mucky feel, debris visible in manhole and in Isolator Row, maintenance due	NV
7/7/13	6.3 ft		0	System jetted and vacuumed	DJM

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Non-Stormwater Discharges SC-10

Description

Non-stormwater discharges (NSWDs) are flows that do not consist entirely of stormwater. Some non-stormwater discharges do not include pollutants and may be discharged to the storm drain if local regulations allow. These include uncontaminated groundwater and natural springs. There are also some non-stormwater discharges that typically do not contain pollutants and may be discharged to the storm drain with conditions. These include: potable water sources, fire hydrant flushing, air conditioner condensate, landscape irrigation drainage and landscape watering, emergency firefighting, etc. as discussed in Section 2.

However there are certain non-stormwater discharges that pose an environmental concern. These discharges may originate from illegal dumping of industrial material or wastes and illegal connections such as internal floor drains, appliances, industrial processes, sinks, and toilets that are illegally connected to the nearby storm drainage system through on-site drainage and piping. These unauthorized discharges (examples of which may include: process waste waters, cooling waters, wash waters, and sanitary wastewater) can carry substances such as paint, oil, fuel and other automotive fluids, chemicals and other pollutants into storm drains.

Non-stormwater discharges will need to be addressed through a combination of detection and elimination. The ultimate goal is to effectively eliminate unauthorized non-stormwater discharges to the stormwater drainage system through implementation of measures to detect, correct, and enforce against illicit connections and illegal discharges of

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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pollutants on streets and into the storm drain system and downstream water bodies.

Approach

Initially the Discharger must make an assessment of non-stormwater discharges to determine which types must be eliminated or addressed through BMPs. The focus of the following approach is the elimination of unauthorized non-stormwater discharges. See other BMP Fact Sheets for activity-specific pollution prevention procedures.

General Pollution Prevention Protocols

- Implement waste management controls described in SC-34 Waste Handling and Disposal.

- Develop clear protocols and lines of communication for effectively prohibiting non-stormwater discharges, especially those that are not classified as hazardous. These are often not responded to as effectively as they need to be.

- Stencil or demarcate storm drains, where applicable, to prevent illegal disposal of pollutants. Storm drain inlets should have messages such as "Dump No Waste Drains to Stream" or similar stenciled or demarcated next to them to warn against ignorant or unintentional dumping of pollutants into the storm drainage system.

- Manage and control sources of water such as hose bibs, faucets, wash racks, irrigation heads, etc. Identify hoses and faucets in the SWPPP, and post signage for appropriate use.

Non-Stormwater Discharge Investigation Protocols

Identifying the sources of non-stormwater discharges requires the Discharger to conduct an investigation of the facility at regular intervals. There are several categories of non-stormwater discharges:

- Visible, easily identifiable discharges, typically generated as surface runoff, such as uncontained surface runoff from vehicle or equipment washing; and

- Non-visible, (e.g., subsurface) discharges into the site drainage system through a variety of pathways that are not obvious.

The approach to detecting and eliminating non-stormwater discharges will vary considerably, as discussed below:

Visible and identifiable discharges

- Conduct routine inspections of the facilities and of each major activity area and identify visible evidence of unauthorized non-stormwater discharges. This may include:

  - ✓ Visual observations of actual discharges occurring;

- ✓ Evidence of surface staining, discoloring etc. that indicates that discharges have occurred;
- ✓ Pools of water in low lying areas when a rain event has not occurred; and
- ✓ Discussions with operations personnel to understand practices that may lead to unauthorized discharges.

- ☐ If evidence of non-stormwater discharges is discovered:
  - ✓ Document the location and circumstances using Worksheets 5 and 6 (Section 2 of the manual), including digital photos;
  - ✓ Identify and implement any quick remedy or corrective action (e.g., moving uncovered containers inside or to a proper location); and
  - ✓ Develop a plan to eliminate the discharge. Consult the appropriate activity-specific BMP Fact Sheet for alternative approaches to manage and eliminate the discharge.
- ☐ Consult the appropriate activity-specific BMP Fact Sheet for alternative approaches to manage and eliminate the discharge. Make sure the facility SWPPP is up-to-date and includes applicable BMPs to address the non-stormwater discharge.

Other Illegal Discharges (Non visible)

Illicit Connections

- ☐ Locate discharges from the industrial storm drainage system to the municipal storm drain system through review of "as-built" piping schematics.
- ☐ Isolate problem areas and plug illicit discharge points.
- ☐ Locate and evaluate discharges to the storm drain system.
- ☐ Visual Inspection and Inventory:
  - ✓ Inventory and inspect each discharge point during dry weather.
  - ✓ Keep in mind that drainage from a storm event can continue for a day or two following the end of a storm and groundwater may infiltrate the underground stormwater collection system.
  - ✓ Non-stormwater discharges are often intermittent and may require periodic inspections.

Review Infield Piping

- ☐ A review of the "as-built" piping schematic is a way to determine if there are any connections to the stormwater collection system.

- Inspect the path of loading/unloading area drain inlets and floor drains in older buildings.

- Never assume storm drains are connected to the sanitary sewer system.

Monitoring for investigation/detection of illegal discharges

- If a suspected illegal or unknown discharge is detected, monitoring of the discharge may help identify the content and/or suggest the source. This may be done with a field screening analysis, flow meter measurements, or by collecting a sample for laboratory analysis. Section 5 and Appendix D describe the necessary field equipment and procedures for field investigations.

- Investigative monitoring may be conducted over time. For example if, a discharge is intermittent, then monitoring might be conducted to determine the timing of the discharge to determine the source.

- Investigative monitoring may be conducted over a spatial area. For example, if a discharge is observed in a pipe, then monitoring might be conducted at accessible upstream locations in order to pinpoint the source of the discharge.

- Generally, investigative monitoring requiring collection of samples and submittal for lab analysis requires proper planning and specially trained staff.

Smoke Testing

Smoke testing of wastewater and stormwater collection systems is used to detect connections between the two piping systems. Smoke testing is generally performed at a downstream location and the smoke is forced upstream using blowers to create positive pressure. The advantage to smoke testing is that it can potentially identify multiple potential discharge sources at once.

- Smoke testing uses a harmless, non-toxic smoke cartridges developed specifically for this purpose.

- Smoke testing requires specialized equipment (e.g., cartridges, blowers) and is generally only appropriate for specially trained staff.

- A Standard Operating Procedure (SOP) for smoke testing is highly desirable. The SOP should address the following elements:

  - ✓ Proper planning and notification of nearby residents and emergency services is necessary since introducing smoke into the system may result in false alarms;

  - ✓ During dry weather, the stormwater collection system is filled with smoke and then traced back to sources;

- ✓ Temporary isolation of segments of pipe using sand bags is often needed to force the smoke into leaking pipes; and
- ✓ The appearance of smoke in a waste vent pipe, at a sewer manhole, or even the base of a toilet indicates that there may be a connection between the sanitary and storm water systems.

- Most municipal wastewater agencies will have necessary staff and equipment to conduct smoke testing and they should be contacted if cross connections with the sanitary sewer are suspected. See SC-44 Drainage System Maintenance for more information.

Dye Testing

- Dye testing is typically performed when there is a suspected specific pollutant source and location (i.e., leaking sanitary sewer) and there is evidence of dry weather flows in the stormwater collection system.
- Dye is released at a probable upstream source location, either the facility's sanitary or process wastewater system. The dye must be released with a sufficient volume of water to flush the system.
- Operators then visually examine the downstream discharge points from the stormwater collection system for the presence of the dye.
- Dye testing can be performed informally using commercially available products in order to conduct an initial investigation for fairly obvious cross-connections.
- More detailed dye testing should be performed by properly trained staff and follow SOPs. Specialized equipment such as fluorometers may be necessary to detect low concentrations of dye.
- Most municipal wastewater agencies will have necessary staff and equipment to conduct dye testing and they should be contacted if cross connections with the sanitary sewer are suspected.

TV Inspection of Drainage System

- Closed Circuit Television (CCTV) can be employed to visually identify illicit connections to the industrial storm drainage system. Two types of CCTV systems are available: (1) a small specially designed camera that can be manually pushed on a stiff cable through storm drains to observe the interior of the piping, or (2) a larger remote operated video camera on treads or wheels that can be guided through storm drains to view the interior of the pipe.
- CCTV systems often include a high-pressure water jet and camera on a flexible cable. The water jet cleans debris and biofilm off the inside of pipes so the camera can take video images of the pipe condition.

- CCTV units can detect large cracks and other defects such as offsets in pipe ends caused by root intrusions or shifting substrate.
- CCTV can also be used to detect dye introduced into the sanitary sewer.
- CCTV inspections require specialized equipment and properly trained staff and are generally best left to specialized contractors or municipal public works staff.

Illegal Dumping

- Substances illegally dumped on streets and into the storm drain systems and creeks may include paints, used oil and other automotive fluids, construction debris, chemicals, fresh concrete, leaves, grass clippings, and pet wastes. These wastes can cause stormwater and receiving water quality problems as well as clog the storm drain system itself.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Illegal dumping hot spots;
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills);
  - ✓ An anonymous tip/reporting mechanism; and
  - ✓ Evidence of responsible parties (e.g., tagging, encampments, etc.).
- One of the keys to success of reducing or eliminating illegal dumping is increasing the number of people at the facility who are aware of the problem and who have the tools to at least identify the incident, if not correct it. Therefore, train field staff to recognize and report the incidents.

Once a site has been cleaned:

- Post "No Dumping" signs with a phone number for reporting dumping and disposal.
- Landscaping and beautification efforts of hot spots may also discourage future dumping, as well as provide open space and increase property values.
- Lighting or barriers may also be needed to discourage future dumping.
- See fact sheet SC-11 Spill Prevention, Control, and Cleanup.

Inspection

- Regularly inspect and clean up hot spots and other storm drainage areas where illegal dumping and disposal occurs.
- Conduct field investigations of the industrial storm drain system for potential sources of non-stormwater discharges.
- Pro-actively conduct investigations of high priority areas. Based on historical data, prioritize specific geographic areas and/or incident type for pro-active investigations.

Spill and Leak Prevention and Response

- On paved surfaces, clean up spills with as little water as possible. Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste.
- Never hose down or bury dry material spills. Sweep up the material and dispose of properly.
- Use adsorbent materials on small spills rather than hosing down the spill. Remove the adsorbent materials promptly and dispose of properly.
- For larger spills, a private spill cleanup company or Hazmat team may be necessary.
- See SC-11 Spill Prevention Control and Cleanup.

Employee Training Program

- Training of technical staff in identifying and documenting illegal dumping incidents is required. The frequency of training must be presented in the SWPPP, and depends on site-specific industrial materials and activities.
- Consider posting a quick reference table near storm drains to reinforce training.
- Train employees to identify non-stormwater discharges and report discharges to the appropriate departments.
- Educate employees about spill prevention and cleanup.
- Well-trained employees can reduce human errors that lead to accidental releases or spills. The employee should have the tools and knowledge to immediately begin cleaning up a spill should one occur. Employees should be familiar with the Spill Prevention Control and Countermeasure Plan. Employees should be able to identify work/jobs with high potential for spills and suggest methods to reduce possibility.
- Determine and implement appropriate outreach efforts to reduce non-permissible non-stormwater discharges.

- Conduct spill response drills annually (if no events occurred) in order to evaluate the effectiveness of the plan.
- When a responsible party is identified, educate the party on the impacts of his or her actions.

Quality Assurance and Record Keeping

Performance Evaluation

- Annually review internal investigation results; assess whether goals were met and what changes or improvements are necessary.
- Obtain feedback from personnel assigned to respond to, or inspect for, illicit connections and illegal dumping incidents.
- Develop document and data management procedures.
- A database is useful for defining and tracking the magnitude and location of the problem.
- Report prohibited non-stormwater discharges observed during the course of normal daily activities so they can be investigated, contained, and cleaned up or eliminated.
- Document that non-stormwater discharges have been eliminated by recording tests performed, methods used, dates of testing, and any on-site drainage points observed.
- Annually document and report the results of the program.
- Maintain documentation of illicit connection and illegal dumping incidents, including significant conditionally exempt discharges that are not properly managed.
- Document training activities.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Many facilities do not have accurate, up-to-date 'as-built' plans or drawings which may be necessary in order to conduct non-stormwater discharge assessments.
  - ✓ Online tools such as Google Earth™ can provide an aerial view of the facility and may be useful in understanding drainage patterns and potential sources of non-stormwater discharges
  - ✓ Local municipal jurisdictions may have useful drainage systems maps.

- Video surveillance cameras are commonly used to secure the perimeter of industrial facilities against break-ins and theft. These surveillance systems may also be useful for capturing illegal dumping activities. Minor, temporary adjustments to the field of view of existing surveillance camera systems to target known or suspected problem areas may be a cost-effective way of capturing illegal dumping activities and identifying the perpetrators.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital facility cost requirements may be minimal unless cross-connections to storm drains are detected.
- Indoor floor drains may require re-plumbing if cross-connections are detected.
- Leaky sanitary sewers will require repair or replacement which can have significant costs depending on the size and industrial activity at the facility.

Maintenance (including administrative and staffing)

- The primary effort is for staff time and depends on how aggressively a program is implemented.
- Costs for containment, and disposal of any leak or discharge is borne by the Discharger.
- Illicit connections can be difficult to locate especially if there is groundwater infiltration.
- Illegal dumping and illicit connection violations requires technical staff to detect and investigate them.

Supplemental Information

Permit Requirements

The IGP authorizes certain Non-Storm Water Discharges (NSWDs) provided BMPs are included in the SWPPP and implemented to:

- Reduce or prevent the contact of authorized NSWDs with materials or equipment that are potential sources of pollutants;
- Reduce, to the extent practicable, the flow or volume of authorized NSWDs;
- Ensure that authorized NSWDs do not contain quantities of pollutants that cause or contribute to an exceedance of a water quality standards (WQS); and,

- Reduce or prevent discharges of pollutants in authorized NSWDs in a manner that reflects best industry practice considering technological availability and economic practicability and achievability."

References and Resources

Center for Watershed Protection, 2004. *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments*, EPA Cooperative Agreement X-82907801-0.

Dublin San Ramon Sanitation District. http://www.dsrsd.com/wwrw/smoketest.html.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

Sacramento Stormwater Management Program, *Best Management Practices for Industrial Storm Water Pollution Control*, Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp.org.

Southern California Coastal Water Research Project, 2013. *The California Microbial Source Identification Manual: A Tiered Approach to Identifying Fecal Pollution Sources to Beaches,* Technical Report 804.

The Storm Water Managers Resource Center, http://www.stormwatercenter.net/.

US EPA. National Pollutant Discharge Elimination System. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=factsheet_results&view=specific&bmp=111.

WEF Press Alexandria, Virginia, 2009.Existing Sewer Evaluation and Rehabilitation: *WEF Manual of Practice No. FD-6 ASCE/EWRI Manuals and Reports on Engineering Practice No. 62, Third Edition.*

Spill Prevention, Control & Cleanup SC-11

Description

Many activities that occur at an industrial or commercial site have the potential to cause accidental spills. Preparation for accidental spills, with proper training and reporting systems implemented, can minimize the discharge of pollutants to the environment.

Spills and leaks are one of the largest contributors of stormwater pollutants. Spill prevention and control plans are applicable to any site at which hazardous materials are stored or used. An effective plan should have spill prevention and response procedures that identify hazardous material storage areas, specify material handling procedures, describe spill response procedures, and provide locations of spill clean-up equipment and materials. The plan should take steps to identify and characterize potential spills, eliminate and reduce spill potential, respond to spills when they occur in an effort to prevent pollutants from entering the stormwater drainage system, and train personnel to prevent and control future spills. An adequate supply of spill clean-up materials must be maintained onsite.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

Approach

General Pollution Prevention Protocols

- ☐ Develop procedures to prevent/mitigate spills to storm drain systems.
- ☐ Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.
- ☐ Establish procedures and/or controls to minimize spills and leaks. The procedures should address:
  - ✓ Description of the facility, owner and address, activities, chemicals, and quantities present;

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- ✓ Facility map of the locations of industrial materials;
- ✓ Notification and evacuation procedures;
- ✓ Cleanup instructions;
- ✓ Identification of responsible departments; and
- ✓ Identify key spill response personnel.

- ☐ Recycle, reclaim, or reuse materials whenever possible. This will reduce the amount of process materials that are brought into the facility.

Spill and Leak Prevention and Response

Spill Prevention

- ☐ Develop procedures to prevent/mitigate spills to storm drain systems. Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.

- ☐ If illegal dumping is observed at the facility:

  - ✓ Post "No Dumping" signs with a phone number for reporting illegal dumping and disposal. Signs should also indicate fines and penalties applicable for illegal dumping.
  - ✓ Landscaping and beautification efforts may also discourage illegal dumping.
  - ✓ Bright lighting and/or entrance barriers may also be needed to discourage illegal dumping.

- ☐ Store and contain liquid materials in such a manner that if the container is ruptured, the contents will not discharge, flow, or be washed into the storm drainage system, surface waters, or groundwater.

- ☐ If the liquid is oil, gas, or other material that separates from and floats on water, install a spill control device (such as a tee section) in the catch basins that collects runoff from the storage tank area.

Preventative Maintenance

- ☐ Place drip pans or absorbent materials beneath all mounted taps, and at all potential drip and spill locations during filling and unloading of tanks. Any collected liquids or soiled absorbent materials must be reused/recycled or properly disposed.

- ☐ Store and maintain appropriate spill cleanup materials in a location known to all near the tank storage area; and ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.

- ☐ Sweep and clean the storage area monthly if it is paved, *do not hose down the area to a storm drain.*

- ☐ Check tanks (and any containment sumps) daily for leaks and spills. Replace tanks that are leaking, corroded, or otherwise deteriorating with tanks in good condition. Collect all spilled liquids and properly dispose of them.

- ☐ Label all containers according to their contents (e.g., solvent, gasoline).

- ☐ Label hazardous substances regarding the potential hazard (corrosive, radioactive, flammable, explosive, poisonous).

- ☐ Prominently display required labels on transported hazardous and toxic materials (per US DOT regulations).

- ☐ Identify key spill response personnel.

Spill Response

- ☐ Clean up leaks and spills immediately.

- ☐ Place a stockpile of spill cleanup materials where it will be readily accessible (e.g., near storage and maintenance areas).

- ☐ On paved surfaces, clean up spills with as little water as possible.

  - ✓ Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills.

  - ✓ If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste.

  - ✓ If possible use physical methods for the cleanup of dry chemicals (e.g., brooms, shovels, sweepers, or vacuums).

- ☐ Never hose down or bury dry material spills. Sweep up the material and dispose of properly.

- ☐ Chemical cleanups of material can be achieved with the use of adsorbents, gels, and foams. Use adsorbent materials on small spills rather than hosing down the spill. Remove the adsorbent materials promptly and dispose of properly.

- ☐ For larger spills, a private spill cleanup company or Hazmat team may be necessary.

Reporting

- Report spills that pose an immediate threat to human health or the environment to the Regional Water Quality Control Board or local authority as location regulations dictate.
- Federal regulations require that any oil spill into a water body or onto an adjoining shoreline be reported to the National Response Center (NRC) at 800-424-8802 (24 hour).
- Report spills to 911 for dispatch and clean-up assistance when needed. Do not contact fire agencies directly.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills);
  - ✓ Clean-up procedures; and
  - ✓ Responsible parties.

Employee Training Program

- Educate employees about spill prevention and cleanup.
- Well-trained employees can reduce human errors that lead to accidental releases or spills:
  - ✓ The employee should have the tools and knowledge to immediately begin cleaning up a spill should one occur; and
  - ✓ Employees should be familiar with the Spill Prevention Control and Countermeasure Plan.
- Employees should be educated about aboveground storage tank requirements. Employees responsible for aboveground storage tanks and liquid transfers should be thoroughly familiar with the Spill Prevention Control and Countermeasure Plan and the plan should be readily available.
- Train employees to recognize and report illegal dumping incidents.

Other Considerations (Limitations and Regulations)

- State regulations exist for facilities with a storage capacity of 10,000 gallons or more of petroleum to prepare a Spill Prevention Control and Countermeasure (SPCC) Plan (Health & Safety Code Chapter 6.67).
- State regulations also exist for storage of hazardous materials (Health & Safety Code Chapter 6.95), including the preparation of area and business plans for emergency response to the releases or threatened releases.
- Consider requiring smaller secondary containment areas (less than 200 sq. ft.) to be connected to the sanitary sewer, prohibiting any hard connections to the storm drain.

Requirements

Costs (including capital and operation & maintenance)

- Will vary depending on the size of the facility and the necessary controls.
- Prevention of leaks and spills is inexpensive. Treatment and/or disposal of contaminated soil or water can be quite expensive.

Maintenance (including administrative and staffing)

- Develop spill prevention and control plan, provide and document training, conduct inspections of material storage areas, and supply spill kits.
- Extra time is needed to properly handle and dispose of spills, which results in increased labor costs.

Supplemental Information

Further Detail of the BMP

Reporting

Record keeping and internal reporting represent good operating practices because they can increase the efficiency of the facility and the effectiveness of BMPs. A good record keeping system helps the facility minimize incident recurrence, correctly respond with appropriate cleanup activities, and comply with legal requirements. A record keeping and reporting system should be set up for documenting spills, leaks, and other discharges, including discharges of hazardous substances in reportable quantities. Incident records describe the quality and quantity of non-stormwater discharges to the storm sewer. These records should contain the following information:

- Date and time of the incident;
- Weather conditions;
- Duration of the spill/leak/discharge;

- Cause of the spill/leak/discharge;
- Response procedures implemented;
- Persons notified; and
- Environmental problems associated with the spill/leak/discharge.

Separate record keeping systems should be established to document housekeeping and preventive maintenance inspections, and training activities. All housekeeping and preventive maintenance inspections should be documented. Inspection documentation should contain the following information:

- Date and time the inspection was performed;
- Name of the inspector;
- Items inspected;
- Problems noted;
- Corrective action required; and
- Date corrective action was taken.

Other means to document and record inspection results are field notes, timed and dated photographs, videotapes, and drawings and maps.

Aboveground Tank Leak and Spill Control

Accidental releases of materials from aboveground liquid storage tanks present the potential for contaminating stormwater with many different pollutants. Materials spilled, leaked, or lost from tanks may accumulate in soils or on impervious surfaces and be carried away by stormwater runoff.

The most common causes of unintentional releases are:

- Installation problems;
- Failure of piping systems (pipes, pumps, flanges, couplings, hoses, and valves);
- External corrosion and structural failure;
- Spills and overfills due to operator error; and
- Leaks during pumping of liquids or gases from truck or rail car to a storage tank or vice versa.

Storage of reactive, ignitable, or flammable liquids should comply with the Uniform Fire Code and the National Electric Code. Practices listed below should be employed to enhance the code requirements:

- Tanks should be placed in a designated area.
- Tanks located in areas where firearms are discharged should be encapsulated in concrete or the equivalent.
- Designated areas should be impervious and paved with Portland cement concrete, free of cracks and gaps, in order to contain leaks and spills.
- Liquid materials should be stored in UL approved double walled tanks or surrounded by a curb or dike to provide the volume to contain 10 percent of the volume of all of the containers or 110 percent of the volume of the largest container, whichever is greater. The area inside the curb should slope to a drain.
- For used oil or dangerous waste, a dead-end sump should be installed in the drain.
- All other liquids should be drained to the sanitary sewer if available. The drain must have a positive control such as a lock, valve, or plug to prevent release of contaminated liquids.
- Accumulated stormwater in petroleum storage areas should be passed through an oil/water separator.

Maintenance is critical to preventing leaks and spills. Conduct routine inspections and:

- Check for external corrosion and structural failure.
- Check for spills and overfills due to operator error.
- Check for failure of piping system (pipes, pumps, flanges, coupling, hoses, and valves).
- Check for leaks or spills during pumping of liquids or gases from truck or rail car to a storage facility or vice versa.
- Visually inspect new tank or container installation for loose fittings, poor welding, and improper or poorly fitted gaskets.
- Inspect tank foundations, connections, coatings, and tank walls and piping system. Look for corrosion, leaks, cracks, scratches, and other physical damage that may weaken the tank or container system.
- Frequently relocate accumulated stormwater during the wet season.

- Periodically conduct integrity testing by a qualified professional.

Vehicle Leak and Spill Control

Major spills on roadways and other public areas are generally handled by highly trained Hazmat teams from local fire departments or environmental health departments. The measures listed below pertain to leaks and smaller spills at vehicle maintenance shops.

In addition to implementing the spill prevention, control, and clean up practices above, use the following measures related to specific activities:

Vehicle and Equipment Maintenance

- Perform all vehicle fluid removal or changing inside or under cover to prevent the run-on of stormwater and the runoff of spills.
- Regularly inspect vehicles and equipment for leaks, and repair immediately.
- Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- Immediately drain all fluids from wrecked vehicles.
- Store wrecked vehicles or damaged equipment under cover.
- Place drip pans or absorbent materials under heavy equipment when not in use.
- Use absorbent materials on small spills rather than hosing down the spill.
- Remove the adsorbent materials promptly and dispose of properly.
- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- Oil filters disposed of in trashcans or dumpsters can leak oil and contaminate stormwater. Place the oil filter in a funnel over a waste oil recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask your oil supplier or recycler about recycling oil filters.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries, even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- Design the fueling area to prevent the run-on of stormwater and the runoff of spills:

  Cover fueling area if possible.

  Use a perimeter drain or slope pavement inward with drainage to a sump.

  Pave fueling area with concrete rather than asphalt.

- If dead-end sump is not used to collect spills, install an oil/water separator.
- Install vapor recovery nozzles to help control drips as well as air pollution.
- Discourage "topping-off' of fuel tanks.
- Use secondary containment when transferring fuel from the tank truck to the fuel tank.
- Use absorbent materials on small spills and general cleaning rather than hosing down the area. Remove the absorbent materials promptly.
- Carry out all Federal and State requirements regarding underground storage tanks, or install above ground tanks.
- Do not use mobile fueling of mobile industrial equipment around the facility; rather, transport the equipment to designated fueling areas.
- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Train employees in proper fueling and cleanup procedures.

Industrial Spill Prevention Response

For the purposes of developing a spill prevention and response program to meet the stormwater regulations, facility managers should use information provided in this fact sheet and the spill prevention/response portions of the fact sheets in this handbook, for specific activities.

The program should:

- Integrate with existing emergency response/hazardous materials programs (e.g., Fire Department).
- Develop procedures to prevent/mitigate spills to storm drain systems.
- Identify responsible departments.

- Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.
- Address spills at municipal facilities, as well as public areas.
- Provide training concerning spill prevention, response and cleanup to all appropriate personnel.

References and Resources

California's Nonpoint Source Program Plan. http://www.swrcb.ca.gov/nps/index.html.

Clark County Storm Water Pollution Control Manual. Available online at: http://www.co.clark.wa.us/pubworks/bmpman.pdf.

King County Storm Water Pollution Control Manual. Available online at: http://dnr.metrokc.gov/wlr/dss/spcm.htm.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp.org.

The Stormwater Managers Resource Center. http://www.stormwatercenter.net/.

Outdoor Loading/Unloading SC-30

Description

The loading/unloading of materials usually takes place outside on docks or terminals; therefore, materials spilled, leaked, or lost during loading/unloading may collect in the soil or on other surfaces and have the potential to be carried away by wind, stormwater runoff or when the area is cleaned. Additionally, rainfall may wash pollutants from machinery used to unload or move materials. Implementation of the following protocols will prevent or reduce the discharge of pollutants to stormwater from outdoor loading/unloading of materials.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- Park tank trucks or delivery vehicles in designated areas so that spills or leaks can be contained.
- Limit exposure of material to rainfall whenever possible.
- Prevent stormwater run-on.
- Check equipment regularly for leaks.

Good Housekeeping

- Develop an operations plan that describes procedures for loading and/or unloading.
- Conduct loading and unloading in dry weather if possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Cover designated loading/unloading areas to reduce exposure of materials to rain.
- Consider placing a seal or door skirt between delivery vehicles and building to prevent exposure to rain.
- Design loading/unloading area to prevent stormwater run-on, which would include grading or berming the area, and position roof downspouts so they direct stormwater away from the loading/unloading areas.
- Have employees load and unload all materials and equipment in covered areas such as building overhangs at loading docks if feasible.
- Load/unload only at designated loading areas.
- Use drip pans underneath hose and pipe connections and other leak-prone spots during liquid transfer operations, and when making and breaking connections. Several drip pans should be stored in a covered location near the liquid transfer area so that they are always available, yet protected from precipitation when not in use. Drip pans can be made specifically for railroad tracks. Drip pans must be cleaned periodically, and drip collected materials must be disposed of properly.
- Pave loading areas with concrete instead of asphalt.
- Avoid placing storm drains inlets in the area.
- Grade and/or berm the loading/unloading area with drainage to sump; regularly remove materials accumulated in sump.

Spill Response and Prevention Procedures

- Keep your spill prevention and control plan up-to-date or have an emergency spill cleanup plan readily available, as applicable.
- Contain leaks during transfer.
- Store and maintain appropriate spill cleanup materials in a location that is readily accessible and known to all employees.
- Ensure that employees are familiar with the site's spill control plan and proper spill cleanup procedures.
- Use drip pans or comparable devices when transferring oils, solvents, and paints.

Material Handling and Waste Management

- Spot clean leaks and drips routinely to prevent runoff of spillage.
- Do not pour liquid wastes into floor drains, sinks, outdoor storm drain inlets, or other storm drains or sewer connections.

- Do not put used or leftover cleaning solutions, solvents, and automotive fluids in the storm drain or sanitary sewer.
- Collect leaking or dripping fluids in drip pans or containers. Fluids are easier to recycle if kept separate.
- Promptly transfer used fluids to the proper waste or recycling drums. Do not leave drip pans or other open containers lying around.
- Minimize the possibility of stormwater pollution from outside waste receptacles by doing at least one of the following:
  - ✓ Use only watertight waste receptacle(s) and keep the lid(s) closed.
  - ✓ Grade and pave the waste receptacle area to prevent run-on of stormwater.
  - ✓ Install a roof over the waste receptacle area.
  - ✓ Install a low containment berm around the waste receptacle area.
  - ✓ Use and maintain drip pans under waste receptacles.
- Post "no littering" signs.
- Perform work area clean-up and dry sweep after daily operations.

Employee Training Program

- Train employees (e.g., fork lift operators) and contractors on proper spill containment and cleanup.
- Have employees trained in spill containment and cleanup present during loading/unloading.
- Train employees in proper handling techniques during liquid transfers to avoid spills.
- Make sure forklift operators are properly trained on loading and unloading procedures.

Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document activities performed, quantities of materials removed, and improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.
- Keep accurate logs of daily clean-up operations.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Space and time limitations may preclude all transfers from being performed indoors or under cover.
  - ✓ Designate specific areas for outdoor loading and unloading.
  - ✓ Require employees to understand and follow spill and leak prevention BMPs.
- It may not be possible to conduct transfers only during dry weather.
  - ✓ Limit materials and equipment rainfall exposure to all extents practicable.
  - ✓ Require employees to understand and follow spill and leak prevention BMPs.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

Many facilities will already have indoor or covered areas where loading/unloading takes place and will require no additional capital expenditures.

If outdoor activities are required, construction of berms or other means to retain spills and leaks may require appropriate constructed systems for containment. These containment areas may require significant new capital investment.

Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

Most of the operations and maintenance activities associated with implementing this BMP are integrally linked to routine operations as previously described. Therefore additional O&M is not required.

- Conduct regular inspections and make repairs and improvements as necessary.
- Check loading and unloading equipment regularly for leaks.
- Conduct regular broom dry-sweeping of area. Do not wash with water.

Supplemental Information

Loading and Unloading of Liquids

- Loading or unloading of liquids should occur in the manufacturing building so that any spills that are not completely retained can be discharged to the sanitary sewer,

treatment plant, or treated in a manner consistent with local sewer authorities and permit requirements.

- For loading and unloading tank trucks to above and below ground storage tanks, the following procedures should be used:
  - ✓ The area where the transfer takes place should be paved. If the liquid is reactive with the asphalt, Portland cement should be used to pave the area.
  - ✓ The transfer area should be designed to prevent run-on of stormwater from adjacent areas. Sloping the pad and using a curb, like a speed bump, around the uphill side of the transfer area should reduce run-on.
  - ✓ The transfer area should be designed to prevent runoff of spilled liquids from the area. Sloping the area to a drain should prevent runoff. The drain should be connected to a dead-end sump or to the sanitary sewer. A positive control valve should be installed on the drain.
- For transfer from rail cars to storage tanks that must occur outside, use the following procedures:
  - ✓ Drip pans should be placed at locations where spillage may occur, such as hose connections, hose reels, and filler nozzles. Use drip pans when making and breaking connections.
  - ✓ Drip pan systems should be installed between the rails to collect spillage from tank cars.

References and Resources

Minnesota Pollution Control Agency, *Industrial Stormwater Best Management Practices Guidebook BMP 26 Fueling and Liquid Loading/Unloading Operations.* Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

New Jersey Department of Environmental Protection, 2013. *Basic Industrial Stormwater General Permit Guidance Document NJPDES General Permit No NJ0088315.* Available online at: http://www.nj.gov/dep/dwq/pdf/5G2_guidance_color.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

Oregon Department of Environmental Quality, 2013. *Industrial Stormwater Best Management Practices Manual- BMP 26 Fueling and Liquid Loading/Unloading Operations.* Available online at: http://www.deq.state.or.us/wq/wqpermit/docs/IndBMP021413.pdf.

Sacramento Stormwater Management Program, *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Sacramento County Environmental Management Stormwater Program: *Best Management Practices*. Available online at: http://www.emd.saccounty.net/EnvHealth/Stormwater/Stormwater-BMPs.html.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/.

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Outdoor Equipment Operations SC-32

Description

Outside process equipment operations and maintenance can contaminate stormwater runoff. Activities, such as grinding, painting, coating, sanding, degreasing or parts cleaning, landfills and waste piles, and solid waste treatment and disposal are examples of process operations that can lead to contamination of stormwater runoff. The targeted constituents will vary for each site depending on the operation being performed.

Approach

Implement source control BMPs to limit exposure of outdoor equipment to direct precipitation and stormwater run-on. Refer to SC-22 Vehicle and Equipment Repair for additional information.

General Pollution Prevention Protocols

- ☐ Perform the activity during dry periods whenever possible.
- ☐ Install secondary containment measures where leaks and spills may occur.
- ☐ Use non-toxic chemicals for maintenance and minimize or eliminate the use of solvents.
- ☐ Connect process equipment area to public sanitary sewer or facility wastewater treatment system when possible. Some jurisdictions require that secondary containment areas be connected to the sanitary sewer, prohibiting any hard connections to the storm drain.

Good Housekeeping

- ☐ Manage materials and waste properly (see Material Handling and Waste Management) to reduce adverse impacts on stormwater quality.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	✓
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Cover the work area with a permanent roof if possible.
- Use drop cloths for sanding and painting operations.
- Use a vacuum for fine particle clean-up in pavement cracks and crevices.
- Minimize contact of stormwater with outside process equipment operations through berming and drainage routing (run-on prevention).
- "Spot clean" leaks and drips routinely. Leaks are not cleaned up until the absorbent is picked up and disposed of properly.
- Paint signs on storm drain inlets to indicate that they are not to receive liquid or solid wastes.
- Use roll down or permanent walls when windy/breezy to prevent wind transport of particulates/pollutants.

Preventative Maintenance

- Design outdoor equipment areas to prevent stormwater runoff and spills. Use a perimeter drain or slope pavement inward with drainage to sump.
- Dry clean the work area regularly. Do not wash outdoor equipment with water if there is a direct connection to the storm drain.
- Pave area with concrete rather than asphalt.
- Inspect outdoor equipment regularly for leaks or spills. Also check for structural failure, spills and overfills due to operator error, and/or failure of piping system.
- Inspect and clean, if necessary, storm drain inlets and catch basins within the outdoor equipment area before October 1 each year.

Spill Response and Prevention Procedures

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Have employees trained in emergency spill cleanup procedures present when dangerous waste, liquid chemicals, or other wastes are delivered.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Prevent operator errors by using engineering safe guards and thus reducing accidental releases of pollutant.

Material Handling and Waste Management

- Do not pour liquid wastes into floor drains, sinks, outdoor storm drain inlets, or other storm drain or sewer connections.
- Collect leaking or dripping fluids in drip pans or containers. Fluids are easier to recycle if kept separate.
- Promptly transfer used fluids to the proper waste or recycling drums. Do not leave drip pans or other open containers lying around.
- Minimize the possibility of stormwater pollution from outside waste receptacles by doing at least one of the following:
  - ✓ Use only watertight waste receptacle(s) and keep the lid(s) closed.
  - ✓ Grade and pave the waste receptacle area to prevent run-on of stormwater.
  - ✓ Install a roof over the waste receptacle area.

Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees on proper equipment operation and maintenance procedures.
- Train all employees upon hiring and annually thereafter on proper methods for handling and disposing of waste. Ensure that all employees understand stormwater discharge prohibitions, wastewater discharge requirements, and these best management practices.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.

Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for outdoor equipment, types and quantities of materials removed and disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Providing cover over outdoor equipment may be impractical or cost-prohibitive.
  - ✓ Operate outdoor equipment only during periods of dry weather.
- Regular operations and time limitations may require outdoor activities during wet weather.
  - ✓ Designate specific areas for outdoor activities.
  - ✓ Allow time for work area clean-up after each shift.
  - ✓ Require employees to understand and follow preventive maintenance and spill and leak prevention BMPs.
  - ✓ Design and install secondary containment and good housekeeping BMPs for outdoor equipment area.
- Storage sheds often must meet building and fire code requirements.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Many facilities will already have indoor covered areas where vehicle and equipment repairs take place and will require no additional capital expenditures.
- If outdoor activities are required, construction of berms or other means to retain spills and leaks may require appropriate constructed systems for containment. These containment areas may require significant new capital investment.
- Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

- Most of the operations and maintenance activities associated with implementing this BMP are integrally linked to routine operations as previously described. Therefore additional O&M is not required.
- For facilities responsible for pre-treating their wastewater prior to discharging, the proper functioning of structural treatment system is an important maintenance consideration.
- Routine cleanout of oil and grease is required for the devices to maintain their effectiveness, usually at least once a month. During periods of heavy rainfall, cleanout is required more often to ensure pollutants are not washed through the trap. Sediment removal is also required on a regular basis to keep the device working efficiently.

References and Resources

Minnesota Pollution Control Agency. *Industrial Stormwater Best Management Practices Guidebook BMP 26 Fueling and Liquid Loading/Unloading Operations.* Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

New Jersey Department of Environmental Protection, 2013. *Basic Industrial Stormwater General Permit Guidance Document NJPDES General Permit No NJ0088315.* Available online at: http://www.nj.gov/dep/dwq/pdf/5G2_guidance_color.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

Oregon Department of Environmental Quality, *Industrial Stormwater Best Management Practices Manual- BMP 26 Fueling and Liquid Loading/Unloading Operations,* February 2013. Available online at: http://www.deq.state.or.us/wq/wqpermit/docs/IndBMP021413.pdf.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control.* Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Sacramento County Environmental Management Stormwater Program: Best Management Practices. Available online at: http://www.emd.saccounty.net/EnvHealth/Stormwater/Stormwater-BMPs.html.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Waste Handling & Disposal SC-34

Description

Improper storage and handling of solid wastes can allow toxic compounds, oils and greases, heavy metals, nutrients, suspended solids, and other pollutants to enter stormwater runoff. The discharge of pollutants to stormwater from waste handling and disposal can be prevented and reduced by tracking waste generation, storage, and disposal; reducing waste generation and disposal through source reduction, reuse, and recycling; and preventing run-on and runoff.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Accomplish reduction in the amount of waste generated using the following source controls:
  - ✓ Production planning and sequencing;
  - ✓ Process or equipment modification;
  - ✓ Raw material substitution or elimination;
  - ✓ Loss prevention and housekeeping;
  - ✓ Waste segregation and separation; and
  - ✓ Close loop recycling.
- ☐ Establish a material tracking system to increase awareness about material usage. This may reduce spills and minimize contamination, thus reducing the amount of waste produced.
- ☐ Recycle materials whenever possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Use the entire product before disposing of the container.
- To the extent possible, store wastes under cover or indoors after ensuring all safety concerns such as fire hazard and ventilation are addressed.
- Provide containers for each waste stream at each work station. Allow time after shift to clean area.

Good Housekeeping

- Cover storage containers with leak proof lids or some other means. If waste is not in containers, cover all waste piles (plastic tarps are acceptable coverage) and prevent stormwater run-on and runoff with a berm. The waste containers or piles must be covered except when in use.
- Use drip pans or absorbent materials whenever grease containers are emptied by vacuum trucks or other means. Grease cannot be left on the ground. Collected grease must be properly disposed of as garbage.
- Dispose of rinse and wash water from cleaning waste containers into a sanitary sewer if allowed by the local sewer authority. Do not discharge wash water to the street or storm drain. Clean in a designated wash area that drains to a clarifier.
- Transfer waste from damaged containers into safe containers.
- Take special care when loading or unloading wastes to minimize losses. Loading systems can be used to minimize spills and fugitive emission losses such as dust or mist. Vacuum transfer systems can minimize waste loss.
- Keep the waste management area clean at all times by sweeping and cleaning up spills immediately.
- Use dry methods when possible (e.g., sweeping, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Stencil or demarcate storm drains on the facility's property with prohibitive message regarding waste disposal.
- Cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene or hypalon.
- If possible, move the activity indoor after ensuring all safety concerns such as fire hazard and ventilation are addressed.

Preventative Maintenance

- Prevent stormwater run-on from entering the waste management area by enclosing the area or building a berm around the area.
- Prevent waste materials from directly contacting rain.

- Cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene or hypalon.
- Cover the area with a permanent roof if feasible.
- Cover dumpsters to prevent rain from washing waste out of holes or cracks in the bottom of the dumpster.
- Check waste containers weekly for leaks and to ensure that lids are on tightly. Replace any that are leaking, corroded, or otherwise deteriorating.
- Sweep and clean the waste management area regularly. Use dry methods when possible (e.g., sweeping, vacuuming, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Inspect and replace faulty pumps or hoses regularly to minimize the potential of releases and spills.
- Repair leaking equipment including valves, lines, seals, or pumps promptly.

Spill Response and Prevention Procedures

- Keep your spill prevention and plan up-to-date.
- Have an emergency plan, equipment and trained personnel ready at all times to deal immediately with major spills.
- Collect all spilled liquids and properly dispose of them.
- Store and maintain appropriate spill cleanup materials in a location known to all near the designated wash area.
- Ensure that vehicles transporting waste have spill prevention equipment that can prevent spills during transport. Spill prevention equipment includes:
  - ✓ Vehicles equipped with baffles for liquid waste; and
  - ✓ Trucks with sealed gates and spill guards for solid waste.

Material Handling and Waste Management

Litter Control

- Post "No Littering" signs and enforce anti-litter laws.
- Provide a sufficient number of litter receptacles for the facility.
- Clean out and cover litter receptacles frequently to prevent spillage.

Waste Collection

- Keep waste collection areas clean.

- Inspect solid waste containers for structural damage regularly. Repair or replace damaged containers as necessary.
- Secure solid waste containers; containers must be closed tightly when not in use.
- Do not fill waste containers with washout water or any other liquid.
- Ensure that only appropriate solid wastes are added to the solid waste container. Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc., may not be disposed of in solid waste containers (see chemical/ hazardous waste collection section below).
- Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal. Affix labels to all waste containers.

Chemical/Hazardous Wastes

- Select designated hazardous waste collection areas on-site.
- Store hazardous materials and wastes in covered containers and protect them from vandalism.
- Place hazardous waste containers in secondary containment.
- Make sure that hazardous waste is collected, removed, and disposed of only at authorized disposal areas.
- Hazardous waste cannot be reused or recycled; it must be disposed of by a licensed hazardous waste hauler.

Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly handle and dispose of waste using the source control BMPs described above.
- Train employees and subcontractors in proper hazardous waste management.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.

Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for waste handling and disposal, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.

- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital costs will vary substantially depending on the size of the facility and the types of waste handled. Significant capital costs may be associated with reducing wastes by modifying processes or implementing closed-loop recycling.
- Many facilities will already have indoor covered areas where waste materials will be stored and will require no additional capital expenditures for providing cover.
- If outdoor storage of wastes is required, construction of berms or other means to prevent stormwater run-on and runoff may require appropriate constructed systems for containment.
- Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

- Check waste containers weekly for leaks and to ensure that lids are on tightly. Replace any that are leaking, corroded, or otherwise deteriorating.
- Sweep and clean the waste management area regularly. Use dry methods when possible (e.g., sweeping, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Inspect and replace faulty pumps or hoses regularly to minimize the potential of releases and spills.
- Repair leaking equipment including valves, lines, seals, or pumps promptly.

References and Resources

Minnesota Pollution Control Agency, *Industrial Stormwater Best Management Practices Guidebook*. Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

New Jersey Department of Environmental Protection, 2013. *Basic Industrial Stormwater General Permit Guidance Document NJPDES General Permit No NJ0088315,* Revised. Available online at: http://www.nj.gov/dep/dwq/pdf/5G2_guidance_color.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities

Oregon Department of Environmental Quality, 2013. *Industrial Stormwater Best Management Practices Manual- BMP 26 Fueling and Liquid Loading/Unloading Operations*. Available online at: http://www.deq.state.or.us/wq/wqpermit/docs/IndBMP021413.pdf.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Sacramento County Environmental Management Stormwater Program: Best Management Practices. Available online at: http://www.emd.saccounty.net/EnvHealth/Stormwater/Stormwater-BMPs.html.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Safer Alternative Products SC-35

Description

Promote the use of less harmful products and products that contain little or no TMDL and 303(d) list pollutants. Alternatives exist for most product classes including chemical fertilizers, pesticides, cleaning solutions, janitorial chemicals, automotive and paint products, and consumables (batteries, fluorescent lamps).

Approach

Pattern a new program after the many established programs around the state and country. Integrate this best management practice as much as possible with existing programs at your facility.

Develop a comprehensive program based on:

- The "Precautionary Principle," which is an alternative to the "Risk Assessment" model that says it's acceptable to use a potentially harmful product until physical evidence of its harmful effects are established and deemed too costly from an environmental or public health perspective. For instance, a risk assessment approach might say it's acceptable to use a pesticide until there is direct proof of an environmental impact. The Precautionary Principle approach is used to evaluate whether a given product is safe, whether it is really necessary, and whether alternative products would perform just as well.
- Environmentally Preferable Purchasing Program to minimize the purchase of products containing hazardous ingredients used in the facility's custodial services, fleet maintenance, and facility maintenance in favor of using alternate products that pose less risk to employees and to the environment.
- Integrated Pest Management (IPM) or Less-Toxic Pesticide Program, which uses a pest management approach that minimizes the use of toxic chemicals and gets rid of pests

Objectives
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	✓
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	
Preventative Maintenance	
Spill and Leak Prevention and Response	
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	

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by methods that pose a lower risk to employees, the public, and the environment.

- Energy Efficiency Program including no-cost and low-cost energy conservation and efficiency actions that can reduce both energy consumption and electricity bills, along with long-term energy efficiency investments.

Consider the following mechanisms for developing and implementing a comprehensive program:

- Policies
- Procedures
  - ✓ Standard operating procedures (SOPs);
  - ✓ Purchasing guidelines and procedures; and
  - ✓ Bid packages (services and supplies).
- Materials
  - ✓ Preferred or approved product and supplier lists;
  - ✓ Product and supplier evaluation criteria;
  - ✓ Training sessions and manuals; and
  - ✓ Fact sheets for employees.

Implement this BMP in conjunction with the Vehicle and Equipment Management fact sheets (SC-20 – SC-22) and SC-41 Building and Grounds Maintenance.

Employee Training Program

- Employees who handle potentially harmful materials should be trained in the use of safer alternatives.
- Purchasing departments should be trained on safer alternative products and encouraged to procure less hazardous materials and products that contain little or no harmful substances or TMDL pollutants.
- Employees and contractors / service providers can both be educated about safer alternatives by using information developed by a number of organizations including the references and resources provided in this fact sheet.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds"

- Alternative products may not be available, suitable, or effective in every case.

- ✓ Minimize use of hazardous/harmful products if no alternative product is available.

Regulatory Considerations

This BMP has no regulatory requirements unless local/municipal ordinance applies. Existing regulations already encourage facilities to reduce the use of hazardous materials through incentives such as reduced:

- Specialized equipment storage and handling requirements;
- Storm water runoff sampling requirements;
- Training and licensing requirements; and
- Record keeping and reporting requirements.

Cost Considerations

- The primary cost is for staff time to: 1) develop new policies and procedures and 2) educate purchasing departments and employees who handle potentially harmful materials about the availability, procurement, and use of safer alternatives.
- Some alternative products may be slightly more expensive than conventional products.

Supplemental Information

The following discussion provides some general information on safer alternatives. More specific information on particular hazardous materials and the available alternatives may be found in the references and resources listed below.

- Automotive products – Less toxic alternatives are not available for many automotive products, especially engine fluids. But there are alternatives to grease lubricants, car polishes, degreasers, and windshield washer solution. Refined motor oil is also available.
- Vehicle/Trailer lubrication – Fifth wheel bearings on trucks require routine lubrication. Adhesive lubricants are available to replace typical chassis grease.
- Cleaners – Vegetables-based or citrus-based soaps are available to replace petroleum-based soaps/detergents.
- Paint products – Water-based paints, wood preservatives, stains, and finishes with low VOC content are available.
- Pesticides – Specific alternative products or methods exist to control most insects, fungi, and weeds.
- Chemical Fertilizers – Compost and soil amendments are natural alternatives.
- Consumables – Manufacturers have either reduced or are in the process of reducing the amount of heavy metals in consumables such as batteries and fluorescent lamps.

All fluorescent lamps contain mercury, however low-mercury containing lamps are now available from most hardware and lighting stores. Fluorescent lamps are also more energy efficient than the average incandescent lamp.

- Janitorial chemicals – Even biodegradable soap can harm fish and wildlife before it biodegrades. Biodegradable does not mean non-toxic. Safer products and procedures are available for floor stripping and cleaning, as well as carpet, glass, metal, and restroom cleaning and disinfecting. Use paper products with post-consumer recycled content and implement electric had dryers.

Examples

There are a number of business and trade associations, and communities with effective programs. Some of the more prominent are listed below in the references and resources section.

References and Resources

Note: Many of these references provide alternative products for materials that typically are used inside and disposed to the sanitary sewer as well as alternatives to products that usually end up in the storm drain.

General Sustainable Practices and Pollution Prevention Including Pollutant-Specific Information

California Department of Toxic Substances Control, http://www.dtsc.ca.gov/PollutionPrevention/GreenTechnology/Index.cfm.

CalRecycle, http://www.calrecycle.ca.gov/Business/Regulated.htm.

City of Santa Monica Office of Sustainability and Environment, http://www.smgov.net/departments/ose/.

City of Palo Alto, http:// www.city.palo-alto.ca.us/cleanbay.

City and County of San Francisco, Department of the Environment, http://www.sfenvironment.org/toxics-health/greener-business-practices.

Green Business Program, http://www.greenbiz.ca.gov/GRlocal.html .

Product Stewardship Institute, http://www.productstewardship.us/index.cfm.

Sacramento Clean Water Business Partners. http://www.sacstormwater.org/CleanWaterBusinessPartners/CleanWaterBusinessPartners.html.

USEPA. National Pollutant Discharge Elimination System (NPDES) Stormwater Discharges From Industrial Facilities, http://cfpub.epa.gov/npdes/stormwater/indust.cfm.

USEPA Region IX Pollution Prevention Program, http://www.epa.gov/region9/waste/p2/business.html.

Western Sustainability and Pollution Prevention Network, http://wsppn.org/.

Metals (mercury, copper)

National Electrical Manufacturers Association – Environmental Stewardship, http://www.nema.org/Policy/Environmental-Stewardship/pages/default.aspx.

Sustainable Conservation, http://www.suscon.org.

Auto Recycling Project

Brake Pad Partnership

Pesticides and Chemical Fertilizers

Bio-Integral Resource Center, http://www.birc.org.

California Department of Pesticide Regulation, http://www.cdpr.ca.gov/dprprograms.htm.

University of California Statewide IPM Program, http://www.ipm.ucdavis.edu/default.html.

Dioxins

Bay Area Dioxins Project, http://www.abag.ca.gov/bayarea/dioxin/project_materials.htm.

Building & Grounds Maintenance SC-41

Description

Stormwater runoff from building and grounds maintenance activities can be contaminated with toxic hydrocarbons in solvents, fertilizers and pesticides, suspended solids, heavy metals, abnormal pH, and oils and greases. Utilizing the protocols in this fact sheet will prevent or reduce the discharge of pollutants to stormwater from building and grounds maintenance activities by washing and cleaning up with as little water as possible, following good landscape management practices, preventing and cleaning up spills immediately, keeping debris from entering the storm drains, and maintaining the stormwater collection system.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Switch to non-toxic chemicals for maintenance to the maximum extent possible.
- ☐ Choose cleaning agents that can be recycled.
- ☐ Encourage proper lawn management and landscaping, including use of native vegetation.
- ☐ Encourage use of Integrated Pest Management techniques for pest control.
- ☐ Encourage proper onsite recycling of yard trimmings.
- ☐ Recycle residual paints, solvents, lumber, and other material as much as possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	
Organics	

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Clean work areas at the end of each work shift using dry cleaning methods such as sweeping and vacuuming.

Good Housekeeping

Pressure Washing of Buildings, Rooftops, and Other Large Objects

- In situations where soaps or detergents are used and the surrounding area is paved, pressure washers must use a water collection device that enables collection of wash water and associated solids. A sump pump, wet vacuum or similarly effective device must be used to collect the runoff and loose materials. The collected runoff and solids must be disposed of properly.

- If soaps or detergents are not used, and the surrounding area is paved, wash runoff does not have to be collected but must be screened. Pressure washers must use filter fabric or some other type of screen on the ground and/or in the catch basin to trap the particles in wash water runoff.

- If you are pressure washing on a grassed area (with or without soap), runoff must be dispersed as sheet flow as much as possible, rather than as a concentrated stream. The wash runoff must remain on the grass and not drain to pavement.

Landscaping Activities

- Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage, or by composting. Do not dispose of collected vegetation into waterways or storm drainage systems.

- Use mulch or other erosion control measures on exposed soils. See also SC-40, Contaminated and Erodible Areas, for more information.

Building Repair, Remodeling, and Construction

- Do not dump any toxic substance or liquid waste on the pavement, the ground, or toward a storm drain.

- Use ground or drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of collected material daily.

- Use a ground cloth or oversized tub for activities such as paint mixing and tool cleaning.

- Clean paintbrushes and tools covered with water-based paints in sinks connected to sanitary sewers or in portable containers that can be dumped into a sanitary sewer drain. Brushes and tools covered with non-water-based paints, finishes, or other materials must be cleaned in a manner that enables collection of used solvents (e.g., paint thinner, turpentine, etc.) for recycling or proper disposal.

- Use a storm drain cover, filter fabric, or similarly effective runoff control mechanism if dust, grit, wash water, or other pollutants may escape the work area and enter a catch basin. This is particularly necessary on rainy days. The containment device(s) must be in place at the beginning of the work day, and accumulated dirty runoff and

solids must be collected and disposed of before removing the containment device(s) at the end of the work day.

- If you need to de-water an excavation site, you may need to filter the water before discharging to a catch basin or off-site. If directed off-site, you should direct the water through hay bales and filter fabric or use other sediment filters or traps.
- Store toxic material under cover during precipitation events and when not in use. A cover would include tarps or other temporary cover material.

Mowing, Trimming, and Planting

- Dispose of leaves, sticks, or other collected vegetation as garbage, by composting or at a permitted landfill. Do not dispose of collected vegetation into waterways or storm drainage systems.
- Use mulch or other erosion control measures when soils are exposed.
- Place temporarily stockpiled material away from watercourses and drain inlets, and berm or cover stockpiles to prevent material releases to the storm drain system.
- Consider an alternative approach when bailing out muddy water: do not put it in the storm drain; pour over landscaped areas.
- Use hand weeding where practical.

Fertilizer and Pesticide Management

- Do not use pesticides if rain is expected.
- Do not mix or prepare pesticides for application near storm drains.
- Use the minimum amount needed for the job.
- Calibrate fertilizer distributors to avoid excessive application.
- Employ techniques to minimize off-target application (e.g., spray drift) of pesticides, including consideration of alternative application techniques.
- Apply pesticides only when wind speeds are low.
- Fertilizers should be worked into the soil rather than dumped or broadcast onto the surface.
- Irrigate slowly to prevent runoff and then only as much as is needed.
- Clean pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.

Inspection

- Inspect irrigation system periodically to ensure that the right amount of water is being applied and that excessive runoff is not occurring. Minimize excess watering and repair leaks in the irrigation system as soon as they are observed.

Building & Grounds Maintenance SC-41

Spill Response and Prevention Procedures

- ☐ Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- ☐ Place a stockpile of spill cleanup materials, such as brooms, dustpans, and vacuum sweepers (if desired) near the storage area where it will be readily accessible.
- ☐ Have employees trained in spill containment and cleanup present during the loading/unloading of dangerous wastes, liquid chemicals, or other materials.
- ☐ Familiarize employees with the Spill Prevention Control and Countermeasure Plan.
- ☐ Clean up spills immediately.

Material Handling and Waste Management

- ☐ Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers and pesticides and training of applicators and pest control advisors.
- ☐ Use less toxic pesticides that will do the job when applicable. Avoid use of copper-based pesticides if possible.
- ☐ Dispose of empty pesticide containers according to the instructions on the container label.
- ☐ Use up the pesticides. Rinse containers, and use rinse water as product. Dispose of unused pesticide as hazardous waste.
- ☐ Implement storage requirements for pesticide products with guidance from the local fire department and County Agricultural Commissioner. Provide secondary containment for pesticides.

Employee Training Program

- ☐ Educate and train employees on pesticide use and in pesticide application techniques to prevent pollution.
- ☐ Train employees and contractors in proper techniques for spill containment and cleanup.
- ☐ Be sure the frequency of training takes into account the complexity of the operations and the needs of individual staff.

Quality Assurance and Record Keeping

- ☐ Keep accurate logs that document maintenance activities performed and minimum BMP measures implemented.
- ☐ Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- ☐ Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Additional capital costs are not anticipated for building and grounds maintenance. Implementation of the minimum BMPs described above should be conducted as part of regular site operations.

Maintenance

- Maintenance activities for the BMPs described above will be minimal, and no additional cost is anticipated.

Supplemental Information

Fire Sprinkler Line Flushing

Site fire sprinkler line flushing may be a source of non-stormwater runoff pollution. The water entering the system is usually potable water, though in some areas it may be non-potable reclaimed wastewater. There are subsequent factors that may drastically reduce the quality of the water in such systems. Black iron pipe is usually used since it is cheaper than potable piping, but it is subject to rusting and results in lower quality water. Initially, the black iron pipe has an oil coating to protect it from rusting between manufacture and installation; this will contaminate the water from the first flush but not from subsequent flushes. Nitrates, poly-phosphates and other corrosion inhibitors, as well as fire suppressants and antifreeze may be added to the sprinkler water system. Water generally remains in the sprinkler system a long time (typically a year) and between flushes may accumulate iron, manganese, lead, copper, nickel, and zinc. The water generally becomes anoxic and contains living and dead bacteria and breakdown products from chlorination. This may result in a significant BOD problem and the water often smells. Consequently dispose fire sprinkler line flush water into the sanitary sewer. Do not allow discharge to storm drain or infiltration due to potential high levels of pollutants in fire sprinkler line water.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual.*

Kennedy/Jenks Consultants, 2007. *The Truckee Meadows Industrial and Commercial Storm Water Best Management Practices Handbook.* Available online at: http://www.cityofsparks.us/sites/default/files/assets/documents/env-control/construction/TM-I-C_BMP_Handbook_2-07-final.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control.* Available online at:

http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

US EPA, 1997. *Best Management Practices Handbook for Hazardous Waste Containers*. Available online at: http://www.epa.gov/region6/6en/h/handbk4.pdf.

Ventura Countywide Stormwater Management Program Clean Business Fact Sheets. Available online at: http://www.vcstormwater.org/documents/programs_business/building.pdf.

Building Repair and Construction SC-42

Description

Site modifications are common, particularly at large industrial sites. The activity may vary from minor and normal building repair to major remodeling, or the construction of new facilities. These activities can generate pollutants including solvents, paints, paint and varnish removers, finishing residues, spent thinners, soap cleaners, kerosene, asphalt and concrete materials, adhesive residues, and old asbestos installation. Protocols in this fact sheet are intended to prevent or reduce the discharge of pollutants to stormwater from building repair, remodeling, and minor construction by using soil erosion controls, enclosing or covering building material storage areas, using good housekeeping practices, using safer alternative products, and training employees.

This fact sheet is intended to be used for minor repairs and construction. If major construction is required, the guidelines in the Construction BMP Handbook should be followed.

Approach

The BMP approach is to reduce potential for pollutant discharges through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Recycle residual paints, solvents, lumber, and other materials to the maximum extent practicable.
- ☐ Avoid outdoor repairs and construction during periods of wet weather.
- ☐ Use safer alternative products to the maximum extent practicable. See also SC-35 Safer Alternative Products for more information.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	✓
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Buy recycled products to the maximum extent practicable.
- Inform on-site contractors of company policy on these matters and include appropriate provisions in their contract to ensure certain proper housekeeping and disposal practices are implemented.
- Make sure that nearby storm drains are well marked to minimize the chance of inadvertent disposal of residual paints and other liquids.

Good Housekeeping

Repair & Remodeling

- Keep the work site clean and orderly. Remove debris in a timely fashion. Sweep and vacuum the area regularly to remove sediments and small debris.
- Cover raw materials of particular concern that must be left outside, particularly during the rainy season. See also SC-33 Outdoor Storage of Raw Materials for more information.
- Use equipment and tools such as bag sanders to reduce accumulation of debris.
- Limit/prohibit work on windy days; implement roll-down walls or other measures to reduce wind transport of pollutants.
- Do not dump waste liquids down the storm drain.
- Dispose of wash water, sweepings, and sediments properly.
- Store liquid materials properly that are normally used in repair and remodeling such as paints and solvents. See also SC-31 Outdoor Liquid Container Storage for more information.
- Sweep out rain gutters or wash the gutter and trap the particles at the outlet of the downspout. A sock or geofabric placed over the outlet may effectively trap the materials. If the downspout is tight lined, place a temporary plug at the first convenient point in the storm drain and pump out the water with a vactor truck, and clean the catch basin sump where you placed the plug.
- Clean the storm drain system in the immediate vicinity of the construction activity after it is completed. See also SC-44 Drainage System Maintenance for more information.

Painting

- Enclose painting operations consistent with local air quality regulations and OSHA.
- Local air pollution regulations may, in many areas of the state, specify painting procedures which if properly carried out are usually sufficient to protect water quality.
- Develop paint handling procedures for proper use, storage, and disposal of paints.

- Transport paint and materials to and from job sites in containers with secure lids and tied down to the transport vehicle.
- Test and inspect spray equipment prior to starting to paint. Tighten all hoses and connections and do not overfill paint containers.
- Mix paint indoors before using so that any spill will not be exposed to rain. Do so even during dry weather because cleanup of a spill will never be 100 percent effective.
- Transfer and load paint and hot thermoplastic away from storm drain inlets.
- Do not transfer or load paint near storm drain inlets.
- Plug nearby storm drain inlets prior to starting painting and remove plugs when job is complete when there is risk of a spill reaching storm drains.
- Cover nearby storm drain inlets prior to starting work if sand blasting is used to remove paint.
- Use a ground cloth to collect the chips if painting requires scraping or sand blasting of the existing surface. Dispose of the residue properly.
- Cover or enclose painting operations properly to avoid drift.
- Clean the application equipment in a sink that is connected to the sanitary sewer if using water based paints.
- Capture all cleanup-water and dispose of properly.
- Dispose of paints containing lead or tributyl tin and considered a hazardous waste properly.
- Store leftover paints if they are to be kept for the next job properly, or dispose properly.
- Recycle paint when possible. Dispose of paint at an appropriate household hazardous waste facility.

Spill Response and Prevention Procedures

- Keep your spill prevention and control plan up-to-date.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Clean up spills immediately.
- Excavate and remove the contaminated (stained) soil if a spill occurs on dirt.

Material Handling and Waste Management

- Post “No Littering” signs and enforce anti-litter laws.

- Provide a sufficient number of litter receptacles for the facility.
- Clean out and cover litter receptacles frequently to prevent spillage.
- Keep waste collection areas clean.
- Inspect solid waste containers for structural damage regularly. Repair or replace damaged containers as necessary.
- Secure solid waste containers; containers must be closed tightly when not in use.
- Do not fill waste containers with washout water or any other liquid.
- Ensure that only appropriate solid wastes are added to the solid waste container. Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc., may not be disposed of in solid waste containers (see chemical/ hazardous waste collection section below).
- Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal. Affix labels to all waste containers.
- Make sure that hazardous waste is collected, removed, and disposed of properly. See also SC-34, Waste Handling and Disposal for more information.

Sediment and Erosion Controls

- Limit disturbance to bare soils and preserve natural vegetation whenever possible. See also EC-2, Preservation of Existing Vegetation, in the Construction BMP Handbook.
- Stabilize loose soils by re-vegetating whenever possible. See also EC-4 Hydroseeding, in the Construction BMP Handbook.
- Utilize non-vegetative stabilization methods for areas prone to erosion where vegetative options are not feasible. Examples include:
  - ✓ Areas of vehicular or pedestrian traffic such as roads or paths;
  - ✓ Arid environments where vegetation would not provide timely ground coverage, or would require excessive irrigation;
  - ✓ Rocky substrate, infertile or droughty soils where vegetation would be difficult to establish; and
  - ✓ Areas where vegetation will not grow adequately within the construction time frame.

  There are several non-vegetative stabilization methods and selection should be based on site-specific conditions. See also EC-16 Non-Vegetative Stabilization, in the Construction BMP Handbook.

- Utilize chemical stabilization when needed. See also EC-5 Soil Binders, in the Construction BMP Handbook.
- Use geosynthetic membranes to control erosion if feasible. See also EC-7 Geotextiles and Mats, in the Construction BMP Handbook.
- Stabilize all roadways, entrances, and exits to sufficiently control discharges of erodible materials from discharging or being tracked off the site. See also TC 1-3 Tracking Control, in the Construction BMP Handbook.
- Refer to the supplemental information provided below for projects that involve more extensive soil disturbance activities.

Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly implement the source control BMPs described above. Detailed information for Sediment and Erosion Control BMPs is provided in the Construction BMP Handbook.
- Proper education of off-site contractors is often overlooked. The conscientious efforts of well trained employees can be lost by unknowing off-site contractors, so make sure they are well informed about pollutant source control responsibilities.
- Use a training log or similar method to document training.

Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for building repair and construction, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- This BMP is for minor construction only. The State's General Construction Activity Stormwater Permit has more extensive requirements for larger projects that would disturb one or more acres of surface.
  - ✓ Refer to the companion "Construction Best Management Practice Handbook" which contains specific guidance and best management practices for larger-scale projects.

- Time constraints may require some outdoor repairs and construction during wet weather.
  - ✓ Require employees to understand and follow good housekeeping and spill and leak prevention BMPs.
  - ✓ Inspect sediment and erosion control BMPs daily during periods of wet weather and repair or improve BMP implementation as necessary.
- Hazardous waste that cannot be reused or recycled must be disposed of by a licensed hazardous waste hauler.
  - ✓ Minimize use of hazardous materials to the maximum extent practicable.
- Be certain that actions to help stormwater quality are consistent with Cal- and Fed-OSHA and air quality regulations.
- Prices for recycled/safer alternative materials and fluids may be higher than those of conventional materials.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Limited capital investments may be required at some sites if adequate cover and containment facilities do not exist for construction materials and wastes.
- Purchase and installation of erosion and sediment controls, if needed will require additional capital investments, and this amount will vary depending on site characteristics and the types of BMPs being implemented.
- Minimize costs by maintaining existing vegetation and limiting construction operations on bare soils.

Maintenance

- The erosion and sediment control BMPs described above require periodic inspection and maintenance to remain effective. The cost of these actions will vary depending on site characteristics and the types of BMPs being implemented.
- Irrigation costs may be required to establish and maintain vegetation.

Supplemental Information

Soil/Erosion Control

If the work involves exposing large areas of soil, employ the appropriate soil erosion and control techniques. See the Construction Best Management Practice Handbook. If old buildings are being torn down and not replaced in the near future, stabilize the site using measures described in SC-40 Contaminated or Erodible Areas.

If a building is to be placed over an open area with a storm drainage system, make sure the storm inlets within the building are covered or removed, or the storm line is connected to the sanitary sewer. If because of the remodeling a new drainage system is to be installed or the existing system is to be modified, consider installing catch basins as they serve as effective "in-line" treatment devices. Include in the catch basin a "turn-down" elbow or similar device to trap floatables.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual*.

California Stormwater Quality Association, 2012. *Construction Stormwater Best Management Practice Handbook*. Available at http://www.casqa.org.

Kennedy/Jenks Consultants, 2007. *The Truckee Meadows Industrial and Commercial Storm Water Best Management Practices Handbook*. Available online at: http://www.cityofsparks.us/sites/default/files/assets/documents/env-control/construction/TM-I-C_BMP_Handbook_2-07-final.pdf.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

US EPA. *Construction Site Stormwater Runoff Control*. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=4.

Parking Area Maintenance SC-43

Description

Parking lots can contribute a number of substances, such as trash, suspended solids, hydrocarbons, oil and grease, and heavy metals that can enter receiving waters through stormwater runoff or non-stormwater discharges. The protocols in this fact sheet are intended to prevent or reduce the discharge of pollutants from parking areas and include using good housekeeping practices, following appropriate cleaning BMPs, and training employees.

BMPs for other outdoor areas on site (loading/unloading, material storage, and equipment operations) are described in SC-30 through SC-33.

Approach

The goal of this program is to ensure stormwater pollution prevention practices are considered when conducting activities on or around parking areas to reduce potential for pollutant discharge to receiving waters. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Encourage advanced designs and maintenance strategies for impervious parking lots. Refer to the treatment control BMP fact sheets in this manual for additional information.
- ☐ Keep accurate maintenance logs to evaluate BMP implementation.

Good Housekeeping

- ☐ Keep all parking areas clean and orderly. Remove debris, litter, and sediments in a timely fashion.
- ☐ Post "No Littering" signs and enforce anti-litter laws.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- ☐ Provide an adequate number of litter receptacles.
- ☐ Clean out and cover litter receptacles frequently to prevent spillage.

Preventative Maintenance

Inspection

Have designated personnel conduct inspections of parking facilities and stormwater conveyance systems associated with parking facilities on a regular basis.

- ☐ Inspect cleaning equipment/sweepers for leaks on a regular basis.

Surface Cleaning

- ☐ Use dry cleaning methods (e.g., sweeping, vacuuming) to prevent the discharge of pollutants into the stormwater conveyance system if possible.
- ☐ Establish frequency of public parking lot sweeping based on usage and field observations of waste accumulation.
- ☐ Sweep all parking lots at least once before the onset of the wet season.
- ☐ Dispose of parking lot sweeping debris and dirt at a landfill.
- ☐ Follow the procedures below if water is used to clean surfaces:
  - ✓ Block the storm drain or contain runoff.
  - ✓ Collect and pump wash water to the sanitary sewer or discharge to a pervious surface. Do not allow wash water to enter storm drains.
- ☐ Follow the procedures below when cleaning heavy oily deposits:
  - ✓ Clean oily spots with absorbent materials.
  - ✓ Use a screen or filter fabric over inlet, then wash surfaces.
  - ✓ Do not allow discharges to the storm drain.
  - ✓ Vacuum/pump discharges to a tank or discharge to sanitary sewer.
  - ✓ Dispose of spilled materials and absorbents appropriately.

Surface Repair

- ☐ Check local ordinance for SUSMP/LID ordinance.
- ☐ Preheat, transfer or load hot bituminous material away from storm drain inlets.
- ☐ Apply concrete, asphalt, and seal coat during dry weather to prevent contamination from contacting stormwater runoff.
- ☐ Cover and seal nearby storm drain inlets where applicable (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc. Leave covers in

place until job is complete and all water from emulsified oil sealants has drained or evaporated. Clean any debris from these covered manholes and drains for proper disposal.

- Use only as much water as necessary for dust control during sweeping to avoid runoff.
- Catch drips from paving equipment that is not in use with pans or absorbent material placed under the machines. Dispose of collected material and absorbents properly.

Spill Response and Prevention Procedures

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place a stockpile of spill cleanup materials where it will be readily accessible or at a central location.
- Clean up fluid spills immediately with absorbent rags or material.
- Dispose of spilled material and absorbents properly.

Employee Training Program

- Provide regular training to field employees and/or contractors regarding cleaning of paved areas and proper operation of equipment.
- Train employees and contractors in proper techniques for spill containment and cleanup.
- Use a training log or similar method to document training.

Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for parking area maintenance, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital investments may be required at some sites to purchase sweeping equipment, train sweeper operators, install oil/water/sand separators, or implement advanced BMPs. These costs can vary significantly depending upon site conditions and the amount of BMPs required.

Maintenance

- Sweep and clean parking lots regularly to minimize pollutant transport into storm drains from stormwater runoff.
- Clean out oil/water/sand separators regularly, especially after heavy storms.
- Maintain advanced BMPs such as vegetated swales, infiltration trenches, or detention basins as appropriate. Refer to the treatment control fact sheets for more information.

Supplemental Information

Advanced BMPs

Some parking areas may require advanced BMPs to further reduce pollutants in stormwater runoff, and a few examples are listed below. Refer to the Treatment Control Fact Sheets and the New Development and Redevelopment Manual for more information.

- When possible, direct sheet runoff to flow into biofilters (vegetated strip and swale) and/or infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low quantities.
- Arrange rooftop drains to prevent drainage directly onto paved surfaces.
- Design lot to include semi-permeable hardscape.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual*.

California Stormwater Quality Association, 2003. *New Development and Redevelopment Stormwater Best Management Practice Handbook*. Available online at: https://www.casqa.org/resources/bmp-handbooks/new-development-redevelopment-bmp-handbook.

Kennedy/Jenks Consultants, 2007. *The Truckee Meadows Industrial and Commercial Storm Water Best Management Practices Handbook*. Available online at: http://www.cityofsparks.us/sites/default/files/assets/documents/env-control/construction/TM-I-C_BMP_Handbook_2-07-final.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

Pollution from Surface Cleaning Folder, 1996, 2003. Bay Area Stormwater Management Agencies Association. Available online at: http://basmaa.org/Portals/0/documents/pdf/Pollution%20from%20Surface%20Cleaning.pdf.

Sacramento Stormwater Management Program. *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

The Storm Water Managers Resource Center, http://www.stormwatercenter.net.

US EPA. *Post-Construction Stormwater Management in New Development and Redevelopment*. BMP Fact Sheets. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=5.

Drainage System Maintenance SC-44

Description

As a consequence of its function, the stormwater drainage facilities on site convey stormwater that may contain certain pollutants either to the offsite conveyance system that collects and transports urban runoff and stormwater, or directly to receiving waters. The protocols in this fact sheet are intended to reduce pollutants leaving the site to the offsite drainage infrastructure or to receiving waters through proper on-site conveyance system operation and maintenance. The targeted constituents will vary depending on site characteristics and operations.

Approach

Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Maintain catch basins, stormwater inlets, and other stormwater conveyance structures on a regular basis to remove pollutants, reduce high pollutant concentrations during the first flush of storms, prevent clogging of the downstream conveyance system, restore catch basins' sediment trapping capacity, and ensure the system functions properly hydraulically to avoid flooding.
- ☐ Develop and follow a site specific drainage system maintenance plan that describes maintenance locations, methods, required equipment, water sources, sediment collection areas, disposal requirements, and any other pertinent information.

Good Housekeeping

Illicit Connections and Discharges

- ☐ Look for evidence of illegal discharges or illicit connections during routine maintenance of conveyance system and drainage structures:

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	✓
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- ✓ Identify evidence of spills such as paints, discoloring, odors, etc.
- ✓ Record locations of apparent illegal discharges/illicit connections.
- ✓ Track flows back to potential discharges and conduct aboveground inspections. This can be done through visual inspection of upgradient manholes or alternate techniques including zinc chloride smoke testing, fluorometric dye testing, physical inspection testing, or television camera inspection.
- ✓ Eliminate the discharge once the origin of flow is established.

- ☐ Stencil or demarcate storm drains, where applicable, to prevent illegal disposal of pollutants. Storm drain inlets should have messages such as "Dump No Waste Drains to Stream" or similar stenciled next to them to warn against ignorant or intentional dumping of pollutants into the storm drainage system.
- ☐ Refer to fact sheet SC-10 Non-Stormwater Discharges for additional information.

Illegal Dumping

- ☐ Inspect and clean up hot spots and other storm drainage areas regularly where illegal dumping and disposal occurs.
- ☐ Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Illegal dumping hot spots;
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills); and
  - ✓ Responsible parties.
- ☐ Post "No Dumping" signs in problem areas with a phone number for reporting dumping and disposal. Signs should also indicate fines and penalties for illegal dumping.
- ☐ Refer to fact sheet SC-10 Non-Stormwater Discharges for additional information.

Preventative Maintenance

Catch Basins/Inlet Structures

- ☐ Staff should regularly inspect facilities to ensure compliance with the following:
  - ✓ Immediate repair of any deterioration threatening structural integrity.
  - ✓ Cleaning before the sump is 40% full. Catch basins should be cleaned as frequently as needed to meet this standard.

- Clean catch basins, storm drain inlets, and other conveyance structures before the wet season to remove sediments and debris accumulated during the summer.
- Conduct inspections more frequently during the wet season for problem areas where sediment or trash accumulates more often. Prioritize storm drain inlets; clean and repair as needed.
- Keep accurate logs of the number of catch basins cleaned.
- Store wastes collected from cleaning activities of the drainage system in appropriate containers or temporary storage sites in a manner that prevents discharge to the storm drain.
- Dewater the wastes if necessary with outflow into the sanitary sewer if permitted. Water should be treated with an appropriate filtering device prior to discharge to the sanitary sewer. If discharge to the sanitary sewer is not allowed, water should be pumped or vacuumed to a tank and properly disposed. Do not dewater near a storm drain or stream.

Storm Drain Conveyance System

- Locate reaches of storm drain with deposit problems and develop a flushing schedule that keeps the pipe clear of excessive buildup.
- Collect and pump flushed effluent to the sanitary sewer for treatment whenever possible.

Pump Stations

- Clean all storm drain pump stations prior to the wet season to remove silt and trash.
- Do not allow discharge to reach the storm drain system when cleaning a storm drain pump station or other facility.
- Conduct routine maintenance at each pump station.
- Inspect, clean, and repair as necessary all outlet structures prior to the wet season.

Open Channel

- Modify storm channel characteristics to improve channel hydraulics, increase pollutant removals, and enhance channel/creek aesthetic and habitat value.
- Conduct channel modification/improvement in accordance with existing laws. Any person, government agency, or public utility proposing an activity that will change the natural state of any river, stream, or lake in California, must enter into a Steam or Lake Alteration Agreement with the Department of Fish and Wildlife. The developer-applicant should also contact local governments (city, county, special districts), other state agencies (SWRCB, RWQCB, Department of Forestry, Department of Water Resources), and Army Corps of Engineers and USFWS.

Spill Response and Prevention Procedures

- Keep your spill prevention control plan up-to-date.

- Investigate all reports of spills, leaks, and/or illegal dumping promptly.
- Place a stockpile of spill cleanup materials where it will be readily accessible or at a central location.
- Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags) or dig up, remove, and properly dispose of contaminated soil.

Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly handle and dispose of waste using the source control BMPs described above.
- Train employees and subcontractors in proper hazardous waste management.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
- Have staff involved in detection and removal of illicit connections trained in the following:
  - ✓ OSHA-required Health and Safety Training (29 CFR 1910.120) plus annual refresher training (as needed).
  - ✓ OSHA Confined Space Entry training (Cal-OSHA Confined Space, Title 8 and Federal OSHA 29 CFR 1910.146).
  - ✓ Procedural training (field screening, sampling, smoke/dye testing, TV inspection).

Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for drainage system maintenance, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Keep accurate logs of illicit connections, illicit discharges, and illegal dumping into the storm drain system including how wastes were cleaned up and disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Limitations and Work-Arounds

Provided below are typical limitations and recommended "work-arounds" for drainage system maintenance:

- Clean-up activities may create a slight disturbance for local aquatic species. Access to items and material on private property may be limited. Trade-offs may exist between channel hydraulics and water quality/riparian habitat. If storm channels or basins are recognized as wetlands, many activities, including maintenance, may be subject to regulation and permitting.

  - ✓ Perform all maintenance onsite and do not flush accumulated material downstream to private property or riparian habitats.

- Storm drain flushing is most effective in small diameter pipes (36-inch diameter pipe or less, depending on water supply and sediment collection capacity). Other considerations associated with storm drain flushing may include the availability of a water source, finding a downstream area to collect sediments, and liquid/sediment disposal.

  - ✓ Develop and follow a site specific drainage system maintenance plan that describes maintenance locations, methods, required equipment, water sources, sediment collection areas, disposal requirements, and any other pertinent information.

- Regulations may include adoption of substantial penalties for illegal dumping and disposal.

  - ✓ Do not dump illegal materials anywhere onsite.

  - ✓ Identify illicit connections, illicit discharge, and illegal dumping.

  - ✓ Cleanup spills immediately and properly dispose of wastes.

- Local municipal codes may include sections prohibiting discharge of soil, debris, refuse, hazardous wastes, and other pollutants into the sanitary sewer system.

  - ✓ Collect all materials and pollutants accumulated in drainage system and dispose of according to local regulations.

  - ✓ Install debris excluders in areas with a trash TMDL.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital costs will vary substantially depending on the size of the facility and characteristics of the drainage system. Significant capital costs may be associated with purchasing water trucks, vacuum trucks, and any other necessary cleaning equipment or improving the drainage infrastructure to reduce the potential .

- Developing and implementing a site specific drainage system maintenance plan will require additional capital if a similar program is not already in place.

Maintenance

- Two-person teams may be required to clean catch basins with vactor trucks.
- Teams of at least two people plus administrative personnel are required to identify illicit discharges, depending on the complexity of the storm sewer system.
- Arrangements must be made for proper disposal of collected wastes.
- Technical staff are required to detect and investigate illegal dumping violations.
- Methods used for illicit connection detection (smoke testing, dye testing, visual inspection, and flow monitoring) can be costly and time-consuming. Site-specific factors, such as the level of impervious area, the density and ages of buildings, and type of land use will determine the level of investigation necessary.

Supplemental Information

Storm Drain Flushing

Flushing is a common maintenance activity used to improve pipe hydraulics and to remove pollutants in storm drainage systems. Flushing may be designed to hydraulically convey accumulated material to strategic locations, such as an open channel, another point where flushing will be initiated, or the sanitary sewer and the treatment facilities, thus preventing re-suspension and overflow of a portion of the solids during storm events. Flushing prevents "plug flow" discharges of concentrated pollutant loadings and sediments. Deposits can hinder the designed conveyance capacity of the storm drain system and potentially cause backwater conditions in severe cases of clogging.

Storm drain flushing usually takes place along segments of pipe with grades that are too flat to maintain adequate velocity to keep particles in suspension. An upstream manhole is selected to place an inflatable device that temporarily plugs the pipe. Further upstream, water is pumped into the line to create a flushing wave. When the upstream reach of pipe is sufficiently full to cause a flushing wave, the inflated device is rapidly deflated with the assistance of a vacuum pump, thereby releasing the backed up water and resulting in the cleaning of the storm drain segment.

To further reduce impacts of stormwater pollution, a second inflatable device placed well downstream may be used to recollect the water after the force of the flushing wave has dissipated. A pump may then be used to transfer the water and accumulated material to the sanitary sewer for treatment. In some cases, an interceptor structure may be more practical or required to recollect the flushed waters.

It has been found that cleansing efficiency of periodic flush waves is dependent upon flush volume, flush discharge rate, sewer slope, sewer length, sewer flow rate, sewer diameter, and population density. As a rule of thumb, the length of line to be flushed should not exceed 700 feet. At this maximum recommended length, the percent removal efficiency ranges between 65-75% for organics and 55-65% for dry weather grit/inorganic material. The percent removal efficiency drops rapidly beyond that. Water is commonly supplied by a water truck, but fire hydrants can also supply water. To make the best use of water, it is recommended that reclaimed water be used if allowed or that fire hydrant line flushing coincide with storm sewer flushing.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual*.

Knox County Tennessee *Stormwater Management Manual* Chapter 5 Drainage System Maintenance, 2008. Available online at: http://www.knoxcounty.org/stormwater/manual/Volume%201/knoxco_swmm_v1_chap5_jan2008.pdf.

US EPA. Storm Drain System Cleaning, 2012. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=102.

Efficient Irrigation SD-12

Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Irrigation water provided to landscaped areas may result in excess irrigation water being conveyed into stormwater drainage systems.

Approach

Project plan designs for development and redevelopment should include application methods of irrigation water that minimize runoff of excess irrigation water into the stormwater conveyance system.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Designing New Installations

The following methods to reduce excessive irrigation runoff should be considered, and incorporated and implemented where determined applicable and feasible by the Permittee:

- Employ rain-triggered shutoff devices to prevent irrigation after precipitation.
- Design irrigation systems to each landscape area's specific water requirements.
- Include design featuring flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines.
- Implement landscape plans consistent with County or City water conservation resolutions, which may include provision of water sensors, programmable irrigation times (for short cycles), etc.

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- Design timing and application methods of irrigation water to minimize the runoff of excess irrigation water into the storm water drainage system.
- Group plants with similar water requirements in order to reduce excess irrigation runoff and promote surface filtration. Choose plants with low irrigation requirements (for example, native or drought tolerant species). Consider design features such as:
  - Using mulches (such as wood chips or bar) in planter areas without ground cover to minimize sediment in runoff
  - Installing appropriate plant materials for the location, in accordance with amount of sunlight and climate, and use native plant materials where possible and/or as recommended by the landscape architect
  - Leaving a vegetative barrier along the property boundary and interior watercourses, to act as a pollutant filter, where appropriate and feasible
  - Choosing plants that minimize or eliminate the use of fertilizer or pesticides to sustain growth
- Employ other comparable, equally effective methods to reduce irrigation water runoff.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Storm Drain Signage SD-13

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Waste materials dumped into storm drain inlets can have severe impacts on receiving and ground waters. Posting notices regarding discharge prohibitions at storm drain inlets can prevent waste dumping. Storm drain signs and stencils are highly visible source controls that are typically placed directly adjacent to storm drain inlets.

Approach

The stencil or affixed sign contains a brief statement that prohibits dumping of improper materials into the urban runoff conveyance system. Storm drain messages have become a popular method of alerting the public about the effects of and the prohibitions against waste disposal.

Suitable Applications

Stencils and signs alert the public to the destination of pollutants discharged to the storm drain. Signs are appropriate in residential, commercial, and industrial areas, as well as any other area where contributions or dumping to storm drains is likely.

Design Considerations

Storm drain message markers or placards are recommended at all storm drain inlets within the boundary of a development project. The marker should be placed in clear sight facing toward anyone approaching the inlet from either side. All storm drain inlet locations should be identified on the development site map.

Designing New Installations

The following methods should be considered for inclusion in the project design and show on project plans:

- Provide stenciling or labeling of all storm drain inlets and catch basins, constructed or modified, within the project area with prohibitive language. Examples include “NO DUMPING

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– DRAINS TO OCEAN" and/or other graphical icons to discourage illegal dumping.

- Post signs with prohibitive language and/or graphical icons, which prohibit illegal dumping at public access points along channels and creeks within the project area.

Note - Some local agencies have approved specific signage and/or storm drain message placards for use. Consult local agency stormwater staff to determine specific requirements for placard types and methods of application.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. If the project meets the definition of "redevelopment", then the requirements stated under " designing new installations" above should be included in all project design plans.

Additional Information

Maintenance Considerations

- Legibility of markers and signs should be maintained. If required by the agency with jurisdiction over the project, the owner/operator or homeowner's association should enter into a maintenance agreement with the agency or record a deed restriction upon the property title to maintain the legibility of placards or signs.

Placement

- Signage on top of curbs tends to weather and fade.

- Signage on face of curbs tends to be worn by contact with vehicle tires and sweeper brooms.

Supplemental Information

Examples

- Most MS4 programs have storm drain signage programs. Some MS4 programs will provide stencils, or arrange for volunteers to stencil storm drains as part of their outreach program.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Maintenance Bays & Docks SD-31

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Description

Several measures can be taken to prevent operations at maintenance bays and loading docks from contributing a variety of toxic compounds, oil and grease, heavy metals, nutrients, suspended solids, and other pollutants to the stormwater conveyance system.

Approach

In designs for maintenance bays and loading docks, containment is encouraged. Preventative measures include overflow containment structures and dead-end sumps. However, in the case of loading docks from grocery stores and warehouse/distribution centers, engineered infiltration systems may be considered.

Suitable Applications

Appropriate applications include commercial and industrial areas planned for development or redevelopment.

Design Considerations

Design requirements for vehicle maintenance and repair are governed by Building and Fire Codes, and by current local agency ordinances, and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code requirements.

Designing New Installations

Designs of maintenance bays should consider the following:

- Repair/maintenance bays and vehicle parts with fluids should be indoors; or designed to preclude urban run-on and runoff.
- Repair/maintenance floor areas should be paved with Portland cement concrete (or equivalent smooth impervious surface).

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- Repair/maintenance bays should be designed to capture all wash water leaks and spills. Provide impermeable berms, drop inlets, trench catch basins, or overflow containment structures around repair bays to prevent spilled materials and wash-down waters form entering the storm drain system. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.

- Other features may be comparable and equally effective.

The following designs of loading/unloading dock areas should be considered:

- Loading dock areas should be covered, or drainage should be designed to preclude urban run-on and runoff.

- Direct connections into storm drains from depressed loading docks (truck wells) are prohibited.

- Below-grade loading docks from grocery stores and warehouse/distribution centers of fresh food items should drain through water quality inlets, or to an engineered infiltration system, or an equally effective alternative. Pre-treatment may also be required.

- Other features may be comparable and equally effective.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Stormwater and non-stormwater will accumulate in containment areas and sumps with impervious surfaces. Contaminated accumulated water must be disposed of in accordance with applicable laws and cannot be discharged directly to the storm drain or sanitary sewer system without the appropriate permit.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Trash Storage Areas SD-32

Description

Trash storage areas are areas where a trash receptacle (s) are located for use as a repository for solid wastes. Stormwater runoff from areas where trash is stored or disposed of can be polluted. In addition, loose trash and debris can be easily transported by water or wind into nearby storm drain inlets, channels, and/or creeks. Waste handling operations that may be sources of stormwater pollution include dumpsters, litter control, and waste piles.

Approach

This fact sheet contains details on the specific measures required to prevent or reduce pollutants in stormwater runoff associated with trash storage and handling. Preventative measures including enclosures, containment structures, and impervious pavements to mitigate spills, should be used to reduce the likelihood of contamination.

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Design requirements for waste handling areas are governed by Building and Fire Codes, and by current local agency ordinances and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code and ordinance requirements. Hazardous waste should be handled in accordance with legal requirements established in Title 22, California Code of Regulation.

Wastes from commercial and industrial sites are typically hauled by either public or commercial carriers that may have design or access requirements for waste storage areas. The design criteria in this fact sheet are recommendations and are not intended to be in conflict with requirements established by the waste hauler. The waste hauler should be contacted prior to the design of your site trash collection areas. Conflicts or issues should be discussed with the local agency.

Designing New Installations

Trash storage areas should be designed to consider the following structural or treatment control BMPs:

- Design trash container areas so that drainage from adjoining roofs and pavement is diverted around the area(s) to avoid run-on. This might include berming or grading the waste handling area to prevent run-on of stormwater.
- Make sure trash container areas are screened or walled to prevent off-site transport of trash.

- Use lined bins or dumpsters to reduce leaking of liquid waste.
- Provide roofs, awnings, or attached lids on all trash containers to minimize direct precipitation and prevent rainfall from entering containers.
- Pave trash storage areas with an impervious surface to mitigate spills.
- Do not locate storm drains in immediate vicinity of the trash storage area.
- Post signs on all dumpsters informing users that hazardous materials are not to be disposed of therein.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Maintenance Considerations

The integrity of structural elements that are subject to damage (i.e., screens, covers, and signs) must be maintained by the owner/operator. Maintenance agreements between the local agency and the owner/operator may be required. Some agencies will require maintenance deed restrictions to be recorded of the property title. If required by the local agency, maintenance agreements or deed restrictions must be executed by the owner/operator before improvement plans are approved.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Attachment F
Infiltration Report

July 7, 2022 Project No. 22081-01

Mr. Tyler Banton
Lovett Industrial
1730 East Holly Avenue, #808
El Segundo, California 90245

Subject: ***Preliminary Geotechnical Evaluation, Proposed Industrial Development, Northwest of the Intersection of Meines Street & Palm Avenue, Highland, California***

In accordance with your request, LGC Geotechnical, Inc. has performed a preliminary geotechnical evaluation for the proposed industrial development to be located northwest of the intersection of Meines Street and Palm Avenue in the city of Highland, California. The purpose of our study was to evaluate the existing onsite geotechnical conditions and to provide preliminary geotechnical recommendations relative to the proposed development.

Should you have any questions regarding this report, please do not hesitate to contact our office. We appreciate this opportunity to be of service.

Respectfully,

LGC Geotechnical, Inc.

Ryan L. Douglas, GE 3147
Project Engineer

Kevin B. Colson, CEG 2210
Vice President

KBC/RLD/amm

Distribution: (5) Addressee (4 wet-signed copies and 1 electronic copy)

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1.0 INTRODUCTION

LGC Geotechnical has performed a geotechnical evaluation for the proposed redevelopment of the site located northwest of the intersection of Meines Street and Palm Avenue in the city of Highland, California. (Figure 1). This report summarizes our findings, conclusions, and preliminary geotechnical design recommendations relative to the proposed redevelopment of the site.

1.1 Project Description and Background

The approximately 13-acre, roughly rectangular-shaped site, currently consists of multiple industrial properties. The overall site is bound in the westerly direction by similar industrial property, to the north by "City Creek" drainage channel, to the east by Palm Avenue, and to the south by Meines Street.

The site is essentially flat at an elevation of approximately 1,185 feet above mean sea level (MSL). Surface drainage on the site is very gentle from northeast to southwest. The unlined, City Creek drainage channel is located north of the site. The channel is approximately 10 feet deep with sides at approximately 5:1 (horizontal to vertical) inclinations or flatter in the vicinity of the site.

We understand that the proposed redevelopment is to include grading and construction for an approximately 282,000 square-foot, one-story, warehouse building, associated parking, drive isles, water quality systems, and appurtenant improvements.

Preliminary building (dead plus live) loads were not provided at the time of this report. However, we have estimated a maximum structural (dead plus live) column and wall load of 125 kips and 8 kips per lineal foot, respectively. A preliminary grading plan was not available at the time of this report. However, proposed grades are not anticipated to significantly change from existing.

The recommendations given in this report are based on the layout and estimated structural loads and grading information as indicated above. LGC Geotechnical should be provided with any updated project information, plans and/or any structural loads when they become available, in order to either confirm or modify the recommendations provided herein.

1.2 Subsurface Exploration

Our subsurface evaluation consisted of the excavation of nine borings (HS-1 through HS-6 & I-1 through I-3), excavated using a truck-mounted drill rig equipped with 6 and 8-inch-diameter hollow-stem augers with depths ranging from approximately 2 to 21 feet below existing grade. Auger refusal was encountered in all borings prior to the target depth, with the exception of Infiltration Borings I-1 & I-2. Additional attempts for most of the borings were made to obtain greater depths. The 8-foot and 10-foot borings for I-1 through I-3 were excavated for field percolation testing. An LGC Geotechnical representative observed the drilling operations, logged the borings, and collected soil samples for laboratory testing. Driven soil samples were collected by means of the Standard Penetration Test (SPT) and Modified California Drive (MCD) sampler. The SPT sampler (1.4-inch ID) and MCD sampler (2.4-inch ID, 3.0-inch OD) were driven using a

140-pound hammer falling 30 inches to advance the sampler a total depth of 18 inches or until refusal. Bulk samples were also collected and logged for laboratory testing at select depths. The raw blow counts for each 6-inch increment of penetration were recorded on the boring logs. After removal of the augers, caving of the boreholes was measured in select borings and is noted on the boring logs. The borings were backfilled with cuttings. At the completion of infiltration testing of I-1 through I-3, the installed pipes were removed, and the resulting voids backfilled with native soils.

The approximate locations of our subsurface explorations are provided on Figure 2. The boring logs are provided in Appendix B.

1.3 Field Percolation Testing

Field percolation tests (I-1 through I-3) were performed to approximate depths ranging from 8 to 10 feet below existing grade. The approximate locations are shown on Figure 2. The borings for the percolation tests were excavated using a drill rig equipped with 8-inch diameter hollow-stem augers.

It should be noted that due to the presence of abundant cobbles and boulders in the site sandy soils, infiltration testing was performed in general accordance with the County of San Bernardino guidelines (2013), rather than those of the City of Highland (2019).

Field percolation testing was performed in general accordance with the guidelines set forth by the County of San Bernardino (2013). For the falling head test, a 3-inch-diameter slotted PVC pipe was placed in the boreholes to a depth of approximately 8 to 10 feet below existing grade and the annulus was backfilled with gravel to the surface including placement of approximately 2 inches of gravel at the bottom of the borehole. The infiltration wells were pre-soaked per the County guidelines. Based on the County of San Bernardino methodology, the observed infiltration rate, summarized in Table 1, has normalized the three-dimensional flow that occurs within the field test to a one-dimensional flow out of the bottom of the boring. The observed infiltration rates provided below in Table 1 do not include any factor of safety.

TABLE 1

Summary of Infiltration Testing

Infiltration Test Location	Infiltration Test Approx. Depth Below Existing Grade (ft)	Observed Infiltration Rate* (inch/hour)
I-1	10.0	8.2
I-2	9.5	8.5
I-3	8.0	13.3

*Normalized to One-Dimensional Flow, does not include any Factor of Safety.

It should be emphasized that infiltration test results are only representative of the location and depth where they are performed. Varying subsurface conditions may exist outside of the test

locations which could alter the calculated infiltration rates indicated above. Infiltration tests are performed using relatively clean water free of particulates, silt, etc. Please refer to Section 4.9 for subsurface water infiltration recommendations.

1.4 Laboratory Testing

Representative bulk and driven samples were obtained for laboratory testing during our field evaluation. Laboratory testing included in-situ moisture content, collapse/swell, expansion index, and corrosion (sulfate, chloride, pH and minimum resistivity). A summary of the laboratory test results are presented in Appendix C.

- Dry density of the samples collected ranged from approximately 97 pounds per cubic foot (pcf) to 118 pcf, with an average of 109 pcf. Field moisture contents ranged from approximately 1 percent to 3 percent, with an average of 2 percent.
- One Expansion Index (EI) test indicated EI value of 1, corresponding to "Very Low" expansion potential.
- Two collapse/swell tests were performed. The collapse swell results are provided in Appendix C.
- Corrosion testing indicated soluble sulfate contents less than approximately 0.01 percent, a chloride content of 220 parts per million (ppm), pH of 6.8, and a minimum resistivity of 3,398 ohm-centimeters.

Laboratory test results obtained from our field evaluation are provided in Appendix C.

2.0 GEOTECHNICAL CONDITIONS

2.1 Regional Geology

The site is located in the flood plain for the Santa Ana River. The regional geologic map of the area indicates the site is underlain by "young axial-valley deposits," including silt, sand, gravel, cobble, and boulder deposits (USGS, 2003).

USGS Bulletin 1898 (USGS, 1991) indicates that the location of the site is not a zone mapped as susceptible to liquefaction. The Geologic Hazard Overlay for the San Bernardino County Land Use Plan indicates that the site is not located in a liquefaction hazard zone, a zone of landslide susceptibility, or County designated fault zones (County, 2009). The subject site is not located within a State of California Fault Rupture Hazard Zone (CGS, 2018). There are no known active or potentially active faults mapped on the site.

2.2 Site-Specific Geology and Generalized Subsurface Conditions

Based on our review of regional geologic maps for the area of the site (USGS, 2003), the project area is mapped as being underlain by Quaternary young axial-valley deposits, which generally include sand, gravel, cobble, and boulders. These native materials are likely locally overlain by thin areas of artificial fill associated with original development of the site. For the purposes of this study, areas of artificial fill are not differentiated from the alluvial deposits.

In general, our borings indicate that the site contains primarily medium dense to very dense sands with varying amounts of silt, gravel, and cobbles to the maximum explored depth of approximately 21 feet below existing grade. Blow counts of the hollow stem borings for sandy soils are very likely impacted by the presence of gravel and cobbles. Moisture contents are generally well below optimum.

It should be noted that borings are only representative of the location and time where/when they are performed, and varying subsurface conditions may exist outside of the performed location. In addition, subsurface conditions can change over time. The soil descriptions provided above should not be construed to mean that the subsurface profile is uniform, and that soil is homogeneous within the project area. For details on the stratigraphy at the exploration locations, refer to Appendix B.

2.3 Geologic Structure

Geologic structure was not identified in the subject site geotechnical evaluation. The alluvial materials encountered are generally massive, but may include low angle bedding, dipping in a westerly direction.

2.4 Landslides

Our research and field observations do not indicate the presence of landslides on the site or in the immediate vicinity. Review of regional geologic maps of the area do not indicate the presence of known or suspected landslides in the vicinity of the site (USGS, 2003).

The Geologic Hazard Overlay for the San Bernardino County Land Use Plan indicates that the site is not located in a a zone of landslide susceptibility (County, 2009).

2.5 Groundwater

Groundwater was not encountered during our subsurface evaluation to the maximum explored depth of approximately 21 feet below existing ground surface. USGS Bulletin 1898 (USGS, 1991) indicates that the minimum historic depth to groundwater at the site is greater than 50 feet.

Review of a geotechnical evaluation report by others (SCG, 2020), for a site located approximately 0.35 miles west of the site did not encounter groundwater to the total depth evaluation of 51 feet below the ground surface.

Groundwater and/or groundwater seepage conditions may occur in the future due to changes in land use and/or following periods of heavy rain. Seasonal fluctuations of groundwater elevations should be expected over time. In general, groundwater levels fluctuate with the seasons and local zones of perched groundwater may be present within the near-surface deposits due to local landscape irrigation or precipitation especially during rainy seasons.

2.6 Faulting

Prompted by damaging earthquakes in Northern and Southern California, State legislation and policies concerning the classification and land-use criteria associated with faults have been developed. The Alquist-Priolo Earthquake Fault Zoning Act was implemented in 1972 to prevent the construction of urban developments across the trace of active faults. California Geologic Survey Special Publication 42 was created to provide guidance for following and implementing the law requirements. Special Publication 42 was most recently revised in 2018 (CGS, 2018). According to the State Geologist, an "active" fault is defined as one which has had surface displacement within Holocene time (roughly the last 11,700 years). Regulatory Earthquake Fault Zones have been delineated to encompass traces of known, Holocene-active faults to address hazards associated with surface fault rupture within California. Where developments for human occupation are proposed within these zones, the state requires detailed fault evaluations be performed so that engineering-geologists can identify the locations of active faults and recommend setbacks from locations of possible surface fault rupture.

The subject site is not located within a State of California Fault Rupture Hazard Zone (CGS, 2018). The Geologic Hazard Overlay for the San Bernardino County Land Use Plan indicates that the site is not located in a County designated fault zone (County, 2009). There are no known active or potentially active faults mapped on the site. The possibility of damage due to ground rupture, as a result of faulting, is considered very low since active faults are not known to cross the site.

Secondary effects of seismic shaking resulting from large earthquakes on the major faults in the Southern California region, which may affect the site, include ground lurching and shallow ground rupture, soil liquefaction, dynamic settlement, seiches and tsunamis. These secondary effects of seismic shaking are a possibility throughout the Southern California region and are dependent on the distance between the site and causative fault and the onsite geology. A discussion of these secondary effects is provided in the following sections.

2.6.1 Lurching and Shallow Ground Rupture

Soil lurching refers to the rolling motion on the ground surface by the passage of seismic surface waves. Effects of this nature are not likely to be significant where the thickness of soft sediments do not vary appreciably under structures. Ground rupture due to active faulting is not likely to occur onsite due to the absence of known active fault traces. Ground cracking due to shaking from distant seismic events is not considered a significant hazard, although it is a possibility at any site.

2.6.2 Liquefaction and Dynamic Settlement

Liquefaction is a seismic phenomenon in which loose, saturated, granular soils behave similarly to a fluid when subject to high-intensity ground shaking. Liquefaction occurs when three general conditions coexist: 1) shallow groundwater; 2) low density non-cohesive (granular) soils; and 3) high-intensity ground motion. Studies indicate that saturated, loose near-surface cohesionless soils exhibit the highest liquefaction potential, while dry, dense, cohesionless soils and cohesive soils exhibit low to negligible liquefaction potential. In general, cohesive soils are not considered susceptible to liquefaction, depending on their plasticity and moisture content (Bray & Sancio, 2006). Effects of liquefaction on level ground include settlement, sand boils, and bearing capacity failures below structures. Dynamic settlement of dry loose sands can occur as the sand particles tend to settle and densify as a result of a seismic event.

USGS Bulletin 1898 (USGS, 1991) indicates that the location of the site is not a zone mapped as susceptible to liquefaction. The Geologic Hazard Overlay for the San Bernardino County Land Use Plan also indicates that the site is not located in a liquefaction hazard zone (County, 2009).

In general, the site will consist of compacted fill over medium dense to very dense alluvial soils. Due the absence of groundwater in the upper 50 feet and presence of medium dense to very dense sandy soils, the potential for liquefaction is considered very low.

2.6.3 Lateral Spreading

Lateral spreading is a type of liquefaction-induced ground failure associated with the lateral displacement of surficial blocks of sediment resulting from liquefaction in a subsurface layer. Once liquefaction transforms the subsurface layer into a fluid mass, gravity plus the earthquake inertial forces may cause the mass to move down-slope towards a free face (such as a river channel or an embankment). Lateral spreading may

cause large horizontal displacements and such movement typically damages pipelines, utilities, bridges, and structures.

Due to the very low potential for liquefaction the potential for lateral spreading is considered very low.

2.6.4 Tsunamis and Seiches

Based on the elevation of the site, with respect to sea level, there is a low possibility of damage to the site during a large tsunami event.

2.7 Seismic Design Parameters

The site seismic characteristics were evaluated per the guidelines set forth in Chapter 16, Section 1613 of the 2019 California Building Code (CBC) and applicable portions of ASCE 7-16 which has been adopted by the CBC. Please note that the following seismic parameters are only applicable for code-based acceleration response spectra and are not applicable for where site-specific ground motion procedures are required by ASCE 7-16. Representative site coordinates of latitude 34.1099 degrees north and longitude -117.2091 degrees west were utilized in our analyses. The maximum considered earthquake (MCE) spectral response accelerations (S_{MS} and S_{M1}) and adjusted design spectral response acceleration parameters (S_{DS} and S_{D1}) for Site Class C are provided in Table 2 on the following page. The structural designer should contact the geotechnical consultant if structural conditions (e.g., number of stories, seismically isolated structures, etc.) require site-specific ground motions.

TABLE 2

Seismic Design Parameters

Selected Parameters from 2019 CBC, Section 1613 - Earthquake Loads	**Seismic Design Values**	**Notes/Exceptions**
Distance to applicable faults classifies the site as a "Near-Fault" site.		Section 11.4.1 of ASCE 7
Site Class	C	Chapter 20 of ASCE 7
Ss (Risk-Targeted Spectral Acceleration for Short Periods)	2.403g	From SEAOC, 2022
S_1 (Risk-Targeted Spectral Accelerations for 1-Second Periods)	0.896g	From SEAOC, 2022
F_a (per Table 1613.2.3(1))	1.2	For Simplified Design Procedure of Section 12.14 of ASCE 7, F_a shall be taken as 1.4 (Section 12.14.8.1)
F_v (per Table 1613.2.3(2))	1.4	-
S_{MS} for Site Class C [Note: $S_{MS} = F_aS_S$]	2.884g	-
S_{M1} for Site Class C [Note: $S_{M1} = F_vS_1$]	1.255g	-
S_{DS} for Site Class C [Note: $S_{DS} = (^2/_3) S_{MS}$]	1.923g	-
S_{D1} for Site Class C [Note: $S_{D1} = (^2/_3) S_{M1}$]	0.837g	-
C_{RS} (Mapped Risk Coefficient at 0.2 sec)	0.913	ASCE 7 Chapter 22
C_{R1}(Mapped Risk Coefficient at 1 sec)	0.889	ASCE 7 Chapter 22

A deaggregation of the PGA based on a 2,475-year average return period (MCE) indicates that an earthquake magnitude of 7.27 at a distance of approximately 4.85 km from the site would contribute the most to this ground motion. A deaggregation of the PGA based on a 475-year average return period (Design Earthquake) indicates that an earthquake magnitude of 7.11 at a distance of approximately 5.58 km from the site would contribute the most to this ground motion (USGS, 2014).

Section 1803.5.12 of the 2019 CBC (per Section 11.8.3 of ASCE 7) states that the maximum considered earthquake geometric mean (MCE_G) Peak Ground Acceleration (PGA) should be used for liquefaction potential. The PGA_M for the site is equal to 1.188g (SEAOC, 2022). The design PGA is equal to 0.792g (2/3 of PGA_M).

2.8 Rippability

Excavation for grading should be achievable with the appropriate heavy earthwork equipment. Excavation difficulty may be encountered with light-duty equipment or hand excavation for deep, narrow excavations (trenches and drilled piles) due to cobbles and possible oversized material.

2.9 Oversized Material

Generation of a surplus of oversized material (material greater than 8 inches in maximum dimension) should be expected in the areas of abundant cobbles which may not be suitable for reuse in site fill, trench backfill, and retaining wall backfill. The need to "screen" onsite soils should be anticipated. Cobbles were observed and encountered, and boulder size material may also be present.

If feasible, crushing oversized materials onsite or exporting oversized materials may be considered. Incorporating oversized materials into "rock fills" (windrows, rock blankets or individual rock burial) is likely not feasible due to the limited depth of grading. Special handling recommendations should be provided on a case-by-case basis, if necessary. Recommendations are provided for appropriate handling of oversized materials in Appendix E.

3.0 FINDINGS AND CONCLUSIONS

Based on the results of our geotechnical evaluation, it is our opinion that the proposed site development is feasible from a geotechnical standpoint, provided the following conclusions and recommendations are incorporated into the site design, grading, and construction.

The following is a summary of the primary geotechnical factors, which may affect future development of the site.

- In general, our borings indicate that the site contains primarily dense sands with varying amounts of silt, gravel and cobble to the maximum explored depth of approximately 21 feet below existing grade. Moisture contents are generally well below optimum.
- Groundwater was not encountered to the maximum explored depth of approximately 21 feet below existing ground surface. Historic high groundwater is deeper than 50 feet below existing grade (USGS, 1991).
- The proposed development will likely be subjected to strong seismic ground shaking during its design life from one of the regional faults. The subject site is not located within an Alquist-Priolo Earthquake Fault Zone or County designated fault zone and no faults were identified on the site during our site evaluation.
- The site is not located in a seismic hazard zone for liquefaction potential. The site will consist of compacted fill over existing medium dense to very dense native soils. Due to the absence of groundwater the potential for liquefaction is considered very low.
- Soils exposed at the proposed foundation level are anticipated to have a "Very Low" expansion potential (EI not exceeding 20). This shall be confirmed at the completion of site earthwork.
- From a geotechnical perspective, the existing onsite soils are suitable material for use as general fill, provided that they are relatively free from rocks (larger than 8 inches in maximum dimension), construction debris, and significant organic material.
- Excavation for grading should be achievable with the appropriate equipment. Excavation difficulty may be encountered with light-duty equipment or hand excavation for deep, narrow excavations (trenches and drilled piles) due to oversized material. Caving of excavations due to friable sands should also be anticipated.
- Generation of a surplus of over-sized material, that may not be suitable for reuse in site fills, trench backfill, and retaining wall backfill should be expected. The need to "screen" onsite soils in order to remove over-sized materials should be anticipated.
- If feasible, crushing oversized materials onsite or exporting oversized materials may be considered. Incorporating oversized materials into "rock fills" (windrows, rock blankets or individual rock burial) is likely not feasible due to the limited depth of grading. Trench excavations should also be expected to have irregular sides and bottoms due to "plucking" of cobbles during excavation.
- On-site soils will most likely be suitable for backfill of site retaining walls provided the soils are screened of materials larger than 3 inches in maximum dimension.
- Field testing resulted in measured infiltration rates ranging from 8.2 to 13.3 inches per hour. The measured infiltration rates do not include a factor of safety. Discussion regarding infiltration is provided in Section 4.9.

4.0 RECOMMENDATIONS

The following recommendations are to be considered preliminary and should be confirmed upon completion of earthwork operations. In addition, they should be considered minimal from a geotechnical viewpoint, as there may be more restrictive requirements from the architect, structural engineer, building codes, governing agencies, or the City. It is the responsibility of the builder to ensure these recommendations are provided to the appropriate parties.

It should be noted that the following geotechnical recommendations are intended to provide sufficient information to develop the site in general accordance with the 2019 California Building Code (CBC) requirements. With regard to the potential occurrence of potentially catastrophic geotechnical hazards such as fault rupture, earthquake-induced landslides, liquefaction, etc. the following geotechnical recommendations should provide adequate protection for the proposed development to the extent required to reduce seismic risk to an "acceptable level." The "acceptable level" of risk is defined by the California Code of Regulations as "the level that provides reasonable protection of the public safety, though it does not necessarily ensure continued structural integrity and functionality of the project" [Section 3721(a)]. Therefore, repair and remedial work of the proposed improvement may be required after a significant seismic event. With regards to the potential for less significant geologic hazards to the proposed development, the recommendations contained herein are intended as a reasonable protection against the potential damaging effects of geotechnical phenomena such as expansive soils, fill settlement, groundwater seepage, etc. It should be understood, however, that although our recommendations are intended to maintain the structural integrity of the proposed development and structures given the site geotechnical conditions, they cannot preclude the potential for some cosmetic distress or nuisance issues to develop as a result of the site geotechnical conditions.

The geotechnical recommendations contained herein must be confirmed to be suitable or modified based on the actual exposed conditions.

4.1 Site Earthwork

We anticipate that earthwork at the site will consist of required earthwork removals, foundation construction and utility line construction and backfill. We recommend that earthwork onsite be performed in accordance with the following recommendations, 2019 CBC/ City of Highland and the General Earthwork and Grading Specifications included in Appendix E. In case of conflict, the following recommendations shall supersede previous recommendations and those included as part of Appendix E.

4.1.1 Site Preparation

Prior to grading of areas to receive structural fill, engineered structures or improvements, the existing structures and improvements should be demolished, and the area should be cleared of existing vegetation, surface obstructions, existing debris and potentially compressible or otherwise unsuitable material. Debris should be removed and properly disposed of off-site. Holes resulting from the removal of buried obstructions, which extend below proposed removal bottoms, should be replaced with suitable compacted fill material. Any abandoned utility lines should be completely removed and replaced with

properly compacted fill. Deeper demolition may be required in order to remove existing foundations. We recommend the trenches associated with demolition which extend below the remedial grading depth be backfilled and properly compacted prior to the demolition contractor leaving the site.

If cesspools or septic systems are encountered, they should be removed in their entirety. The resulting excavation should be backfilled with properly compacted fill soils. As an alternative, cesspools can be backfilled with lean sand-cement slurry. Any encountered wells should be properly abandoned in accordance with regulatory requirements. At the conclusion of the clearing operations, a representative of LGC Geotechnical should observe and accept the site prior to further grading.

4.1.2 Removal Depths and Limits

Building Structures: In order to provide a relatively uniform bearing condition for the planned structural improvements, removals should extend a minimum depth of 5 feet below existing grade or 2 feet below the proposed footings, whichever is greater. In general, the envelope for removals should extend laterally a minimum horizontal distance of 5 feet beyond the edges of the proposed building footprint.

Retaining/Free-Standing Wall Structures: Removals should extend a minimum of 3 feet below existing grade, or 1-foot below proposed footings, whichever is greater. Where space is available, the envelope for removal and recompaction should extend laterally a minimum distance of 3 feet beyond the edges of the proposed minor site structure improvements.

Pavement and Hardscape Areas: Removals should extend to a depth of at least 2 feet below the existing grade. Removals in any design cut areas of the pavement may be reduced by the depth of the design cut but should not be less than 1-foot below the finished subgrade (i.e., below planned aggregate base/asphalt concrete). In general, the envelope for removals should extend laterally a minimum lateral distance of 2 feet beyond the edges of the proposed improvements.

Local conditions may be encountered during excavation that could require additional over-excavation beyond the above-noted minimum in order to obtain an acceptable subgrade including localized areas of undocumented fill. The actual depths and lateral extents of grading will be determined by the geotechnical consultant, based on subsurface conditions encountered during grading. Removal areas should be accurately staked in the field by the Project Surveyor.

4.1.3 Temporary Excavations

Temporary excavations should be performed in accordance with project plans, specifications, and all Occupational Safety and Health Administration (OSHA) requirements. In general, interior non-property line temporary slopes up to 10 feet in height should be sloped back to a maximum slope ratio of 1.5:1 (horizonal to vertical) or flatter. Temporary slopes excavated near existing temporary shoring may reduce the

stability of temporary shoring, if proposed this should be evaluated on a case-by-case basis. The temporary slope should not include a vertical cut. Prolonged exposure of backcut slopes during construction may result in localized slope instability. Sandy soils are present and should be considered susceptible to caving. Raveling of the sandy soils should be anticipated for temporary slopes. Flatter slope inclinations should be considered if raveling cannot be tolerated. The exposed slope surface may be kept surficially moist (but not saturated) during construction to reduce (not eliminate) potential sloughing. Soil conditions should be regularly evaluated during construction to verify conditions are as anticipated. The contractor shall be responsible for providing the "competent person" required by OSHA standards to evaluate soil conditions. Close coordination with the geotechnical consultant should be maintained to facilitate construction while providing safe excavations. Excavation safety is the sole responsibility of the contractor.

Surcharge loads (e.g., soil stockpiles, construction equipment, etc.) placed on top of the excavation/temporary slope should not be permitted within a horizontal distance equal to the height of the excavation/temporary slope from the top of the excavation or 5 feet from the top of the slope, whichever is greater, unless the cut is properly shored and designed for the applicable surcharge load. In general, any excavation that extends below a 1:1 (horizontal to vertical) projection of an existing foundation will remove existing support of the structure foundation. Once an excavation has been initiated, it should be backfilled as soon as practical. Prolonged exposure of temporary excavations may result in some localized instability. Excavations should be planned so that they are not initiated without sufficient time to shore/fill them prior to weekends, holidays, or forecasted rain.

It should be noted that any excavation that extends below a 1:1 (horizontal to vertical) projection of an existing foundation will remove existing support of the structure foundation. If requested, temporary shoring parameters can be provided.

4.1.4 Removal Bottoms and Subgrade Preparation

In general, removal bottom areas and any areas to receive compacted fill should be scarified to a minimum depth of 6 inches, brought to a near-optimum moisture condition, and re-compacted per project recommendations.

Removal bottoms and areas to receive fill should be observed and accepted by the geotechnical consultant prior to subsequent fill placement.

4.1.5 Material for Fill

From a geotechnical perspective, the onsite soils are generally considered suitable for use as general compacted fill (i.e., non-retaining wall backfill), provided they are screened of organic materials, construction debris and any oversized material (8 inches in greatest dimension). Moisture conditioning of site soils should be anticipated as outlined in the section below.

Any required retaining wall backfill should consist of sandy soils with a maximum of 35 percent fines (passing the No. 200 sieve) per American Society for Testing and Materials (ASTM) Test Method D1140 (or ASTM D6913/D422) and a Very Low expansion potential (EI of 20 or less per ASTM D4829). Soils should also be screened of organic materials, construction debris and any material greater than 3 inches in maximum dimension. The site may contain soils that are not suitable for retaining wall backfill due to oversize material and fines content, therefore select grading, stockpiling, and screening and/or import may be required by the contractor for obtaining suitable retaining wall backfill soil.

From a geotechnical viewpoint, any required import soils should consist of clean, relatively granular soils of Very Low expansion potential (expansion index 20 or less based on ASTM D4829) and no particles larger than 4 inches in greatest dimension. Source samples of planned importation should be provided to the geotechnical consultant for laboratory testing a minimum of 3 working days prior to any planned importation for required laboratory testing.

Aggregate base (crushed aggregate base or crushed miscellaneous base) should conform to the requirements of Section 200-2 of the Standard Specifications for Public Works Construction ("Greenbook") for untreated base materials (except processed miscellaneous base) or Caltrans Class 2 aggregate base. Crushed aggregate base, crushed miscellaneous base and Caltrans Class 2 aggregate base are acceptable for pavement sections.

4.1.6 Fill Placement and Compaction

Material to be placed as fill should be brought to near-optimum moisture content (generally at about 2 percent above optimum moisture content) and recompacted to at least 90 percent relative compaction (per ASTM D1557). Significant moisture conditioning of site soils should be anticipated in order to achieve the required degree of compaction. In general, soils will require additional moisture conditioning in order to achieve the required compaction. Drying and/or mixing of very moist soils may also be required prior to reusing the materials in compacted fills. The optimum lift thickness to produce a uniformly compacted fill will depend on the type and size of compaction equipment used. In general, fill should be placed in uniform lifts not exceeding 8 inches in compacted thickness. Each lift should be thoroughly compacted and accepted prior to subsequent lifts. Generally, placement and compaction of fill should be performed in accordance with local grading ordinances and with observation and testing by the geotechnical consultant. Oversized material as previously defined should be removed from site fills.

Fill placed on any slopes greater than 5:1 (horizontal to vertical) should be properly keyed and benched into firm and competent soils as it is placed in lifts.

Aggregate base material should be compacted to a minimum of 95 percent relative compaction at or slightly above-optimum moisture content per ASTM D1557. Subgrade below aggregate base should be compacted to a minimum of 90 percent relative compaction per ASTM D1557 at or slightly above-optimum moisture content.

If gap-graded ¾-inch rock is used for backfill (around storm drain storage chambers, retaining wall backfill, etc.) it will require compaction. Rock shall be placed in thin lifts (typically not exceeding 6 inches) and mechanically compacted with observation by geotechnical consultant. Backfill rock shall meet the requirements of ASTM D2321. Gap-graded rock is required to be wrapped in filter fabric to prevent the migration of fines into the rock backfill.

4.1.7 Trench and Retaining Wall Backfill and Compaction

Bedding material used within the pipe zone should conform to the requirements of the current Greenbook and the pipe manufacturer. Where applicable, sand having a sand equivalent (SE) of 20 or greater (per Caltrans Test Method [CTM] 217) may be used to bed and shade the pipes within the bedding zone. Sand backfill should be densified by jetting or flooding and then tamped to ensure adequate compaction. Bedding sand should be from a natural source, manufactured sand from recycled material is not suitable for jetting. The onsite soils may generally be considered suitable as trench backfill (zone defined as 12 inches above the pipe to subgrade), provided the soils are screened of rocks greater than 6 inches in maximum dimension, construction debris and organic material. Trench backfill should be compacted in uniform lifts (as outlined above in Section "Material for Fill") by mechanical means to at least 90 percent relative compaction (per ASTM D1557). If gap-graded rock is used for trench backfill, refer to above Section 4.1.6.

In backfill areas where mechanical compaction of soil backfill is impractical due to space constraints, flowable fill such as sand-cement slurry may be substituted for compacted backfill. The slurry should contain about one sack of cement per cubic yard. When set, such a mix typically has the consistency of compacted soil. Sand cement slurry placed near the surface within landscape areas should be evaluated for potential impacts on planned improvements.

Any required retaining wall backfill should consist of predominately granular, sandy soils outlined in Section 4.1.5. The limits of select sandy backfill should extend at minimum ½ the height of the retaining wall or the width of the heel (if applicable), whichever is greater (Refer to Figure 3). Retaining wall backfill soils should be compacted in relatively uniform thin lifts to a minimum of 90 percent relative compaction (per ASTM D1557). Jetting or flooding of retaining wall backfill materials should not be permitted. If gap-graded rock is used for retaining wall backfill, refer to above Section 4.1.6.

A representative from LGC Geotechnical should observe, probe, and test the backfill to verify compliance with the project recommendations.

4.2 Preliminary Foundation Recommendations

The proposed structure may be supported on spread or continuous footings and conventional slabs, provided earthwork is performed in accordance with the recommendations presented in this report. Since the site soils are anticipated to be "Very Low" expansion potential (EI of 20 or less per ASTM D4829), special design considerations from a geotechnical perspective are not anticipated, however, this must be verified based on as-graded conditions. Footings should be

supported on properly compacted fill. Please note that the following foundation recommendations are preliminary and must be confirmed by LGC Geotechnical at the completion of grading.

Preliminary foundation recommendations are provided in the following sections. The foundation design must be performed by the structural engineer based on the following geotechnical parameters and minimum values provided.

4.2.1 Slab Design and Construction

From a geotechnical perspective, minimum slab thicknesses of 6 inches and 4 inches are recommended for new slabs in the warehouse areas and office areas, respectively. Slabs are to be supported on compacted fill soils properly prepared in accordance with the recommendations provided in this report. Actual slab reinforcement and thickness should be determined by the structural engineer based on the imposed loading. Additional slab-on-grade recommendations can be provided for alternative building types upon request.

The foundation designer may use a modulus of vertical subgrade reaction (k) of 200 pounds per cubic inch (pounds per square inch per inch of deflection). This value is for a 1-foot by 1-foot square loaded area and should be adjusted by the structural designer for the area of the proposed footing using the following formula:

$k = 200 \times [(B+1)/2B]^2$
k = modulus of vertical subgrade reaction, pounds per cubic inch (pci)
B = foundation width (feet)

It is recommended that subgrade soils below slabs be moisture conditioned in order to maintain the recommended moisture content up to the time of concrete placement. The recommended moisture content of the slab subgrade soils should be between optimum moisture content and approximately 2 percent above optimum moisture content to a minimum depth of 12 inches. The moisture content of the slab subgrade should be verified by the geotechnical consultant within 1 to 2 days prior to concrete placement. In addition, this moisture content should be maintained around the immediate perimeter of the slab during construction and up to occupancy of the building structures.

The following recommendations are for informational purposes only, as they are unrelated to the geotechnical performance of the foundation. The following recommendations may be superseded by the foundation engineer and/or owner. Some post-construction moisture migration should be expected below the foundation. In general, interior floor slabs with moisture sensitive floor coverings should be underlain by a minimum 10 mil thick polyolefin material vapor retarder, which has a water vapor transmission rate (permeance) of less than 0.03 perms. The need for sand and/or the sand thickness (above and/or below the vapor retarder) should be specified by the structural engineer, architect or concrete contactor. The selection and thickness of sand is not a geotechnical engineering issue and is therefore outside our purview.

4.2.2 Foundation Design Parameters

For the proposed industrial warehouse structures, minimum continuous wall and column footing widths should be 12 inches and 24 inches, respectively, minimum exterior foundation embedment should extend a minimum of 18 inches below the adjacent exterior grade, and interior column footings should be embedded a minimum of 12 inches beneath the adjacent subgrade. The following allowable bearing pressures for both continuous and column spread footings presented in Table 3 below are recommended for corresponding footing widths and embedments.

TABLE 3

Allowable Soil Bearing Pressures

Allowable Static Bearing Pressure (psf)	Minimum Footing Width (feet)	Minimum Footing Embedment* (feet)
3,500	4	2
3,000	3	2
2,500	2	1.5
2,000	1	1.5

* Refers to minimum depth measured below lowest adjacent grade.

These allowable bearing values indicated above (exclusive of the weight of the footings) are for total dead loads and frequently applied live loads and may be increased by ⅓ for short duration loading (i.e., wind or seismic loads). The allowable bearing pressures are applicable for level (ground slope equal to or flatter than 5H:1V) conditions only.

In utilizing the above-mentioned allowable bearing capacity and provided our earthwork recommendations are implemented, foundation settlement due to structural loads is anticipated to be on the order of 1-inch. Differential static settlement may be taken as half of the static settlement (i.e., ½-inch over a horizontal span of 40 feet).

4.2.3 Foundation Construction

The foundation is to be excavated into competent compacted artificial fill placed during grading operations. It is recommended that the foundation subgrade soils be evaluated by the geotechnical engineer prior to steel and/or concrete placement.

The geotechnical parameters provided herein assume that if the areas adjacent to the foundations are planted and irrigated, these areas will be designed with proper drainage and adequately maintained so that ponding, which causes significant moisture changes below the foundation, does not occur. Our recommendations do not account for excessive irrigation and/or incorrect landscape design. Plants should only be provided with sufficient irrigation for life and not overwatered to saturate subgrade soils. Sunken

planters placed adjacent to the foundation should either be designed with an efficient drainage system or liners to prevent moisture infiltration below the foundation.

4.2.4 Lateral Load Resistance

Resistance to lateral loads can be provided by friction acting at the base of foundations and by passive earth pressure. For concrete/soil frictional resistance, an allowable coefficient of friction of 0.35 may be assumed with dead-load forces. An allowable passive lateral earth pressure of 250 psf per foot of depth (or pcf) to a maximum of 2,500 psf may be used for the sides of footings poured against properly compacted fill. Allowable passive pressure may be increased to 340 pcf (maximum of 3,400 psf) for short duration seismic loading. This passive pressure is applicable for level (ground slope equal to or flatter than 5H:1V) conditions. Frictional resistance and passive pressure may be used in combination without reduction. We recommend that the upper foot of passive resistance be neglected if finished grade will not be covered with concrete or asphalt. The provided allowable passive pressures are based on a factor of safety of 1.5 and 1.1 for static and seismic loading conditions, respectively.

4.3 Lateral Earth Pressures for Retaining Wall Design

Lateral earth pressures are provided as equivalent fluid unit weights, in pound per square foot (psf) per foot of depth or pcf. A soil unit weight of 125 pcf may be assumed for calculating the actual weight of soil over the wall footing.

The following lateral earth pressures are presented on Table 4 below for design of site retaining walls backfilled with approved select sandy soils with a maximum of 35 percent fines (passing the No. 200 sieve per ASTM D1140) and a Very Low expansion potential (EI of 20 or less per ASTM D4829). The site may contain soils that are not suitable for retaining wall backfill due to oversize material and fines content, therefore select grading, stockpiling, and screening and/or import may be required by the contractor for obtaining suitable retaining wall backfill soil.

TABLE 4

Lateral Earth Pressures – Approved Sandy Backfill

Conditions	**Equivalent Fluid Unit Weight (pcf)**	**Equivalent Fluid Unit Weight (pcf)**
	Level Backfill	**2:1 Sloped Backfill**
	Approved Sandy Soils	**Approved Sandy Soils**
Active	35	55
At-Rest	55	70

If the wall can yield enough to mobilize the full shear strength of the soil, it can be designed for

"active" pressure. If the wall cannot yield under the applied load, the earth pressure will be higher. The equivalent fluid pressure values assume free-draining conditions. Retaining wall structures should be provided with appropriate drainage and appropriately waterproofed (Refer to Figure 3). Please note that waterproofing and outlet systems are not the purview of the geotechnical consultant. If conditions other than those assumed above are anticipated, the equivalent fluid pressure values should be provided on an individual-case basis by the geotechnical consultant.

Surcharge loading effects from any adjacent structures should be evaluated by the retaining wall designer. In general, structural loads within a 1:1 (horizontal to vertical) upward projection from the bottom of the proposed retaining wall footing will surcharge the proposed retaining structure. In addition to the recommended earth pressure, retaining walls adjacent to streets should be designed to resist vehicular traffic if applicable. Uniform surcharges may be estimated using the applicable coefficient of lateral earth pressure using a rectangular distribution. A factor of 0.35 and 0.5 may be used for the active and at-rest conditions, respectively. The vertical traffic surcharge may be determined by the structural designer. The retaining wall designer should contact the geotechnical engineer for any required geotechnical input in estimating any applicable surcharge loads.

If required, the retaining wall designer may use a seismic lateral earth pressure increment of 15 pcf for a level backfill condition. This increment should be applied in addition to the provided static lateral earth pressure using a "normal" triangular distribution with the resultant acting at H/3 in relation to the base of the retaining structure (where H is the retained height). For the restrained, at-rest condition, the seismic increment may be added to the applicable active lateral earth pressure (in lieu of the at-rest lateral earth pressure) when analyzing short duration seismic loading. Per Section 1803.5.12 of the 2019 CBC, the seismic lateral earth pressure is applicable to structures assigned to Seismic Design Category D through F for retaining wall structures supporting more than 6 feet of backfill height. This seismic lateral earth pressure is estimated using the procedure outlined by the Structural Engineers Association of California (Lew, et al, 2010).

Soil bearing and lateral resistance (friction coefficient and passive resistance) are provided in Section 4.2. Earthwork considerations (temporary backcuts, backfill, compaction, etc.) for retaining walls are provided in Section 4.1 (Site Earthwork) and the subsequent earthwork related sub-sections.

4.4 Soil Corrosivity

Although not corrosion engineers (LGC Geotechnical is not a corrosion consultant), several governing agencies in Southern California require the geotechnical consultant to determine the corrosion potential of soils to buried concrete and metal facilities. We therefore present the results of our testing with regard to corrosion for the use of the client and other consultants, as they determine necessary.

Corrosion testing indicated soluble sulfate contents less than approximately 0.01 percent, a chloride content of 220 parts per million (ppm), pH of 6.82, and a minimum resistivity of 3,398 ohm-centimeters. Based on Caltrans Corrosion Guidelines (2021), soils are considered corrosive if the pH is 5.5 or less, or the chloride concentration is 500 ppm or greater, or the

sulfate concentration is 1,500 ppm (0.15 percent) or greater. Based on the test results, soils are not considered corrosive using Caltrans criteria.

Based on laboratory sulfate test results, the near surface soils are designated to a class "S0" per ACI 318, Table 19.3.1.1 with respect to sulfates. Concrete in direct contact with the onsite soils can be designed according to ACI 318, Table 19.3.2.1 using the "S0" sulfate classification.

Laboratory testing may need to be performed at the completion of grading by the project corrosion engineer to further evaluate the as-graded soil corrosivity characteristics. Accordingly, revision of the corrosion potential may be needed, should future test results differ substantially from the conditions reported herein. The client and/or other members of the development team should consider this during the design and planning phase of the project and formulate an appropriate course of action.

4.5 Preliminary Asphalt Concrete Pavement Sections

The following preliminary minimum asphalt concrete (AC) pavement sections are provided in Table 5 based on an assumed R-value of 40. These recommendations must be confirmed with R-value testing of representative near-surface soils at the completion of grading and after underground utilities have been installed and backfilled. Determination of the Traffic Index (TI) is not the purview of the geotechnical consultant. Final pavement sections should be confirmed by the project civil/transportation engineer based upon the final design Traffic Index. If requested, LGC Geotechnical will provide sections for alternate TI values.

TABLE 5

Preliminary Asphalt Concrete Pavement Section Options

Pavement Area	Assumed Traffic Index	Section Thickness (inches)	
		Asphalt Concrete	Aggregate Base
Auto Parking	5.0	4.0	4.0
Circulation Drives (little to no truck traffic)	6.0	4.0	5.0
Truck Driveways (limited truck traffic)	7.0	4.0	7.0

The thicknesses shown are for minimum thicknesses. Increasing the thickness of any or all of the above layers will reduce the likelihood of the pavement experiencing distress during its service life. The above recommendations are based on the assumption that proper maintenance and irrigation of the areas adjacent to the roadway will occur through the design life of the pavement. Failure to maintain a proper maintenance and/or irrigation program may jeopardize the integrity of the pavement.

Earthwork recommendations regarding aggregate base and subgrade are provided in the previous section "Site Earthwork" and the related sub-sections of this report.

4.6 Preliminary Portland Cement Concrete Pavement Sections

For the purposes of these preliminary recommendations, we assumed an R-value of 40. Preliminary minimum Portland Cement Concrete (PCC) pavement street sections are provided in Table 6 for Traffic Indices of 5.0 (or less), 6.0, and 7.0 and may be utilized in the design of the truck parking/circulation areas or loading docks. These recommendations must be confirmed with R-value testing of representative near-surface soils at the completion of grading and after underground utilities have been installed and backfilled. Final street sections should be confirmed by the project civil engineer based upon the projected design Traffic Index. If requested, LGC Geotechnical will provide sections for alternate TI values. The appropriate paving section must be selected by the project civil engineer/client based on design traffic indexes.

TABLE 6

Preliminary PCC Pavement Sections

Provided Traffic Index	5.0 (or less)	6.0	7.0
Assumed Pavement Area	Auto Parking	Circulation Drives (little to no truck traffic)	Truck Driveways (limited truck traffic)
R -Value Subgrade	40	40	40
PCC Thickness	5.0 inches	6.0 inches	7.0 inches
95% Compacted Subgrade	12.0 inches	12.0 inches	12.0 inches

For preliminary planning purposes, the PCC pavement sections may consist of a minimum of concrete over subgrade soils compacted to 95 percent relative compaction (see Table 6 for section thicknesses). The concrete should have a minimum compressive strength of 3,250 psi and a minimum flexural strength of 505 psi at the time the pavement is subjected to traffic. Steel reinforcement is not required (ACI, 2017). The provided pavement sections assume that edge restraints like a curb and gutter will be provided. To reduce the potential (but not eliminate) for cracking, paving should provide control joints at regular intervals in each direction. The maximum joint spacing within all PCC pavements is recommended to be equal to or less than 30 times the pavement thickness; however, we recommend joint spacing not exceed 15 feet in each direction. Joints should be a depth of 1/3 of the concrete thickness. Decreasing the spacing of these joints will further reduce, but not eliminate the potential for unsightly cracking.

If semi-trailers are to be disconnected from the tractors from dolly jacks the design should consider concentrated loads imposed on the concrete pavement. These loads typically exceed the axle loads of the semi-trailer combination and are applied to smaller contact areas, especially if applied near joint locations. If these irregular loadings are confined to specific areas of the site, the pavement section required thickness can be economized. These and other factors (e.g., traffic patterns, irregular loading, doweled vs un-doweled joints, etc.) outlined in ACI, 2017 should be addressed for the final design.

The thicknesses shown are minimum thicknesses. Increasing the thickness of any or all of the above layers will reduce the likelihood of the pavement experiencing distress during its service life. The above recommendations are based on the assumption that proper maintenance and irrigation of the areas adjacent to the roadway will occur through the design life of the

pavement. Failure to maintain a proper maintenance and/or irrigation program may jeopardize the integrity of the pavement.

Subgrade below the PCC pavement should be compacted to a minimum of 95 percent relative compaction per ASTM D1557 near optimum moisture content (generally within optimum and 2 percent above optimum moisture content). Earthwork recommendations are provided in Section 4.1 "Site Earthwork" and the related sub-sections of this report.

4.7 Nonstructural Concrete Flatwork

Nonstructural concrete (such as flatwork, sidewalks, etc.) has a potential for cracking due to changes in soil volume related to soil-moisture fluctuations. To reduce the potential for excessive cracking and lifting, concrete should be designed in accordance with the minimum guidelines outlined below. These guidelines will reduce the potential for irregular cracking and promote cracking along construction joints but will not eliminate all cracking or lifting. Thickening the concrete and/or adding additional reinforcement will further reduce cosmetic distress.

Nonstructural and non-vehicular concrete flatwork placed on compacted subgrade may be a minimum 4-inches in thickness with crack control joints spaced 8 feet apart for flatwork slabs and 6 feet apart for flatwork sidewalks. Crack control joints should be sawcut or deep open tool joint to a minimum of 1/3 the concrete thickness. The compacted subgrade below the nonstructural and non-vehicular concrete flatwork should be wet down prior to placing concrete.

To reduce the potential for nonstructural concrete flatwork to separate from entryways and doorways, the owner may elect to install dowels to tie these two elements together.

4.8 Control of Surface Water and Drainage Control

From a geotechnical perspective, we recommend that compacted finished grade soils adjacent to proposed structures be sloped away from the proposed structures and towards an approved drainage device or unobstructed swale. If required, drainage swales, wherever feasible, should not be constructed within 5 feet of buildings. Where lot and building geometry necessitates that drainage swales be routed closer than 5 feet to structural foundations, we recommend the use of area drains together with drainage swales. Drainage swales used in conjunction with area drains should be designed by the project civil engineer so that a properly constructed and maintained system will prevent ponding within 5 feet of the foundation. Code compliance of grades is not the purview of the geotechnical consultant.

Planters with open bottoms adjacent to buildings should be avoided. Planters should not be designed adjacent to buildings unless provisions for drainage, such as catch basins, liners, and/or area drains, are made. Overwatering must be avoided.

4.9 Subsurface Water Infiltration

Recent regulatory changes have occurred that mandate that storm water be infiltrated below grade rather than collected in a conventional storm drain system. It should be noted that collecting and concentrating surface water for the purpose of intentionally infiltrating it below grade, conflicts with the geotechnical engineering objective of directing surface water away from slopes, structures and other improvements. The geotechnical stability and integrity of a site is reliant upon appropriately handling surface water. In general, we do not recommend that surface water be intentionally infiltrated into the subsurface soils.

If it is determined that water must be infiltrated due to regulatory requirements, we recommend the absolute minimum amount of water be infiltrated and that the infiltration areas not be located near slopes or near settlement sensitive existing/proposed improvements. Contamination and environmental suitability of the site for infiltration is not the purview of the geotechnical consultant and should be evaluated by others. LGC Geotechnical only addressed the geotechnical issues associated with stormwater infiltration.

As with all systems that are designed to concentrate surface flow and direct the water into the subsurface soils, some minor settlement, nuisance type localized saturation and/or other water related issues should be expected. Due to variability in geologic and hydraulic conductivity characteristics, these effects may be experienced at the onsite location and/or potentially at other locations well beyond the physical limits of the subject site. Infiltrated water may enter underground utility pipe zones or flow along heterogeneous soil layers or geologic structure and migrate laterally impacting other improvements which may be located far away or at an elevation much different than the infiltration source.

Based on the results of our field infiltration testing the measured 1-D infiltration rates for I-1, I-2, and I-3 (not including required factors of safety for design) were 8.2, 8.5, and 13.3 inches per hour, respectively. The design infiltration rate shall be determined by dividing the measured infiltration by a series of safety factors for site suitability and design considerations that are the purview of both the geotechnical consultant and designer of the infiltration system (County of San Bernardino, 2013). The recommended geotechnical factors of safety that are to be used to determine the design infiltration rate are provided in Table 7 on the following page.

As previously discussed, due to the presence of abundant cobbles and boulders in the site sandy soils, infiltration testing was performed in general accordance with the County of San Bernardino guidelines (2013), rather than those of the City of Highland (2019). Regardless of the methodology, the data indicates that infiltration should be considered feasible for the site. We recommend that the proposed infiltration system be designed in accordance infiltration rates provided herein and the appropriately applied County of San Bernardino safety factors.

TABLE 7

Geotechnical Factors of Safety for Design Infiltration Rate

A: Site Suitability Considerations (From Table VII.3)	
Consideration	**Factor of Safety (F.S.)**
Soil Assessment Methods	2
Texture Class	1
Site Soil Variability	2
Depth to Groundwater/Impervious Layer	1
Calculated Suitability Assessment Factor of Safety	**1.5**
B: Design Related Considerations (From Table VII.4)	
Consideration	**Factor of Safety (F.S.)**
Tributary Size Area	Per Infiltration Designer
Level of Pretreatment	Per Infiltration Designer
Redundancy of Treatment	Per Infiltration Designer
Compaction during Construction	2
Calculated Design Factor of Safety	Per Infiltration Designer
Combined F.S.= Suitability F.S x Design F.S.	**TBD**

The factor of safety used to determine the design infiltration rate is determined by multiplying the calculated suitability assessment factor of safety of 1.50 by the design factor of safety which is to be determined by the infiltration system designer. The design infiltration rate is thereby equal to the Measured Infiltration Rate provided in Table 1 (inches per hour) divided by the product of 1.50 times the calculated design factor of safety. The combined factor of safety must be a minimum of 2.0 but need not exceed 9.0.

Please note that the infiltration values reported herein are for native materials only and are not for compacted fill. Water discharge from any infiltration systems should not occur within the zone of influence of foundation footings (column and load bearing wall locations). For preliminary purposes we recommend a minimum setback of 15 feet from the structural improvements. Infiltration shall not be permitted directly on or into compacted fill soils. The infiltration values provided are based on clean water and this requires the removal of trash, debris, soil particles, etc., and on-going maintenance. Over time, siltation, plugging and clogging of the system may reduce the infiltration rate and subsequently reduce the effectiveness of the infiltration system. Any designed infiltration system will require routine periodic maintenance. It should be noted that methods to prevent this shall be the sole responsibility of the infiltration designer and are not the purview of the geotechnical consultant. If adequate measures cannot be incorporated into the design and maintenance of the system, then the infiltration rates may need to be further reduced. These and other factors should be considered in selecting a design infiltration rate.

We recommend the design of any infiltration system include at least one redundancy or overflow system. It may be prudent to provide an overflow system connected directly to a

storm drain system in order to prevent failure of the infiltration system, either as a result of lower than anticipated infiltration with time and/or very high flow volumes. Contamination and environmental suitability of the site for infiltration was not evaluated by us and should be evaluated by others (environmental consultant). We only addressed the geotechnical issues associated with stormwater infiltration.

LGC Geotechnical should be provided with details for any planned required infiltration system early in the design process for geotechnical input.

4.10 Pre-Construction Documentation and Construction Monitoring

It is highly recommended that a program of documentation and monitoring be devised and put into practice before the onset of any groundwork. LGC Geotechnical can perform these services at your request. This should include, but not necessarily be limited to, detailed documentation of the existing improvements, buildings, and utilities around the area of proposed excavation, with particular attention to any distress that is already present prior to the start of work. Subsequent readings should be scheduled consistent with the program of work.

4.11 Geotechnical Plan Review

Project plans (e.g., grading, foundation, retaining wall, etc.) and final project drawings should be reviewed by this office prior to construction to verify that our geotechnical recommendations, provided herein, have been appropriately incorporated. Additional or modified geotechnical recommendations may be required based on the proposed design.

4.12 Geotechnical Observation and Testing During Construction

The recommendations provided in this report are based on limited subsurface observations and geotechnical analysis. The interpolated subsurface conditions should be checked in the field during construction by a representative of LGC Geotechnical. Geotechnical observation and testing is required per Section 1705 of the 2019 California Building Code (CBC).

Geotechnical observation and/or testing should be performed by LGC Geotechnical at the following stages:

- During grading (removal bottoms, fill placement, etc.);
- During retaining wall and utility trench backfill and compaction;
- Preparation of pavement subgrade and placement of aggregate base;
- After building and wall footing excavation and prior to placing reinforcement and/or concrete; and
- When any unusual soil conditions are encountered during any construction operation subsequent to issuance of this report.

5.0 LIMITATIONS

Our services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable engineers and geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report. The samples taken and submitted for laboratory testing, the observations made, and the in-situ field testing performed are believed representative of the entire project; however, soil and geologic conditions revealed by excavation may be different than our preliminary findings. If this occurs, the changed conditions must be evaluated by the project soils engineer and geologist and design(s) adjusted as required or alternate design(s) recommended.

This report is issued with the understanding that it is the responsibility of the owner, or of his/her representative, to ensure that the information and recommendations contained herein are brought to the attention of the architect and/or project engineer and incorporated into the plans, and the necessary steps are taken to see that the contractor and/or subcontractor properly implements the recommendations in the field. The contractor and/or subcontractor should notify the owner if they consider any of the recommendations presented herein to be unsafe.

The findings of this report are valid as of the present date. However, changes in the conditions of a property can and do occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. Therefore, the findings, conclusions, and recommendations presented in this report can be relied upon only if LGC Geotechnical has the opportunity to observe the subsurface conditions during grading and construction of the project, in order to confirm that our preliminary findings are representative for the site.

In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and modification, and should not be relied upon after a period of 3 years.

PROJECT NAME	Lovett Industrial - Palm Ave, Highland
PROJECT NO.	22081-01
ENG. / GEOL.	KBC/RLD
SCALE	Not to Scale
DATE	July 2022

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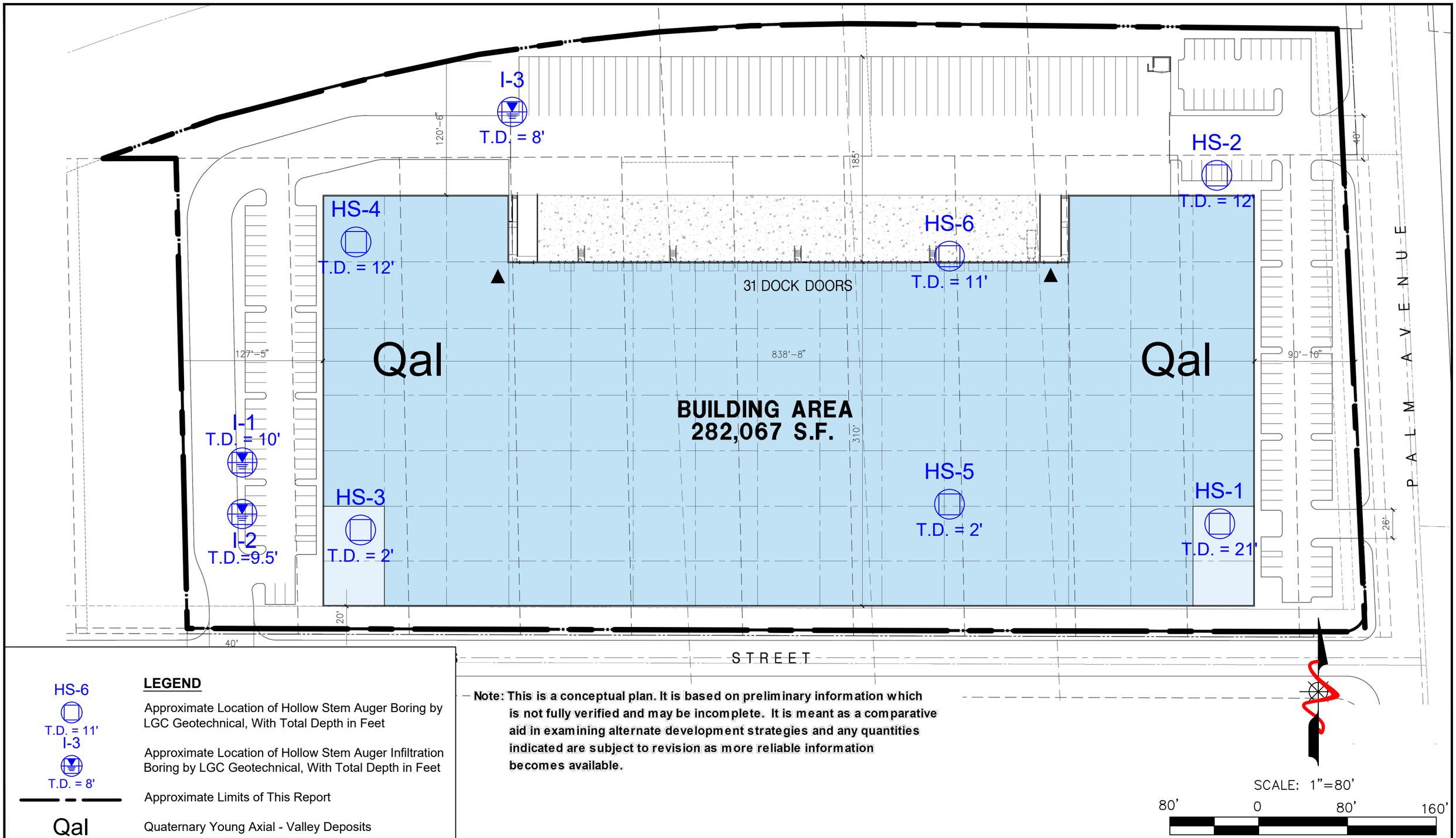
FIGURE 1
Site Location Map



LEGEND

HS-6
T.D. = 11'
Approximate Location of Hollow Stem Auger Boring by LGC Geotechnical, With Total Depth in Feet

I-3
T.D. = 8'
Approximate Location of Hollow Stem Auger Infiltration Boring by LGC Geotechnical, With Total Depth in Feet

Approximate Limits of This Report

Qal
Quaternary Young Axial - Valley Deposits

Note: This is a conceptual plan. It is based on preliminary information which is not fully verified and may be incomplete. It is meant as a comparative aid in examining alternate development strategies and any quantities indicated are subject to revision as more reliable information becomes available.

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FIGURE 2
Geotechnical Map

PROJECT NAME	Lovett Industrial - Palm Ave, Highland
PROJECT NO.	22081-01
ENG. / GEOL.	KBC/RLD
SCALE	1" = 80'
DATE	July 2022

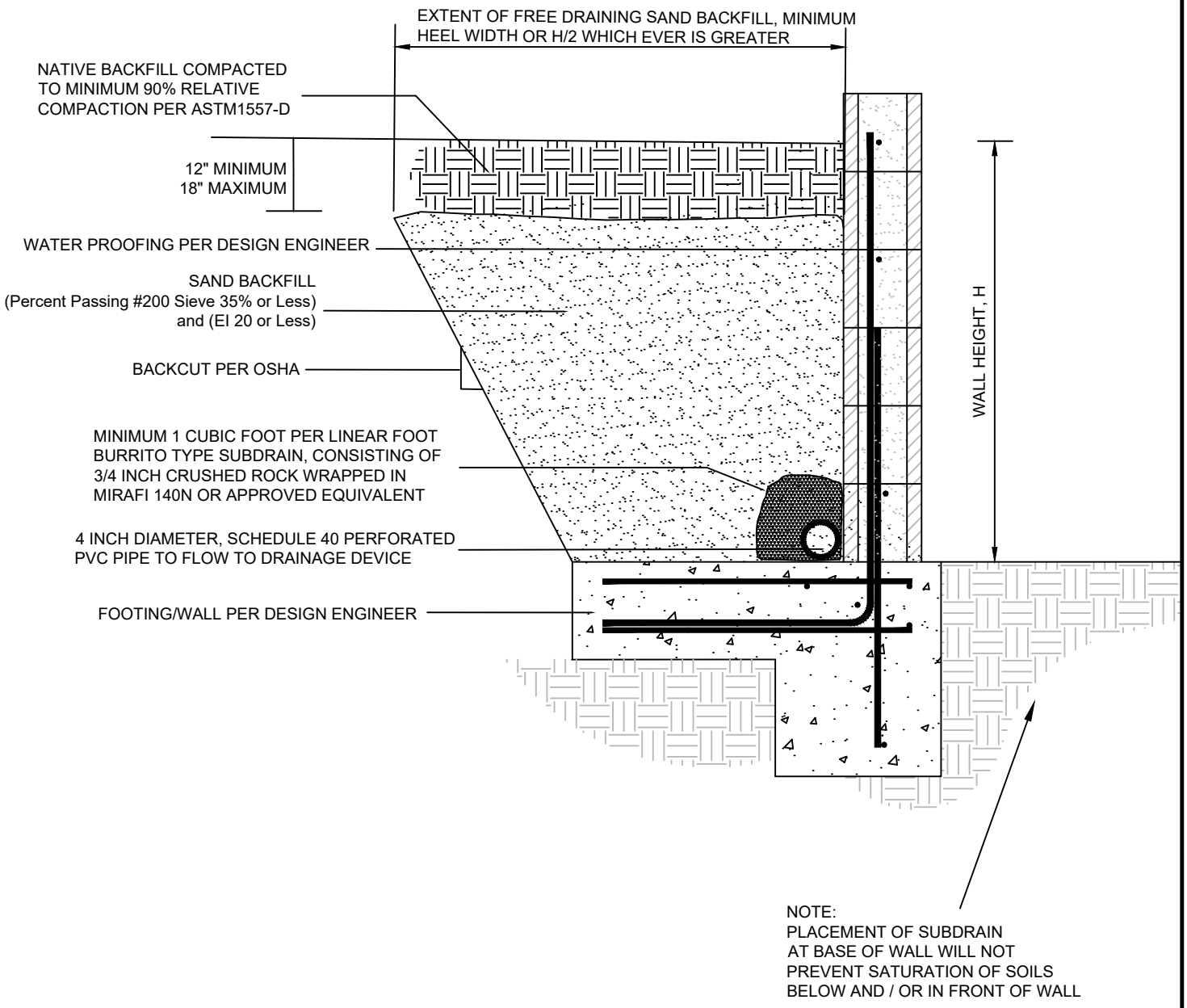

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FIGURE 3
Retaining Wall Backfill Detail

PROJECT NAME	Lovett Industrial - Palm Ave, Highland
PROJECT NO.	22081-01
ENG. / GEOL.	KBC/RLD
SCALE	Not to Scale
DATE	July 2022

Appendix A
References

APPENDIX A

References

American Concrete Institute (ACI), 2013, Guide for the Design and Construction of Concrete Parking Lots (ACI 330R-08), fifteenth printing, November 2013.

_____, 2014, Building Code Requirements for Structural Concrete (ACI 318-14) and Commentary (ACI 318R-14).

_____, 2017, Guide for the Design and Construction of Concrete Site Paving for Industrial and Trucking Facilities (ACI 3302R-17), May 2017.

American Society of Civil Engineers (ASCE), 2017, Minimum Design Loads for Buildings and Other Structures, ASCE/SEI 7-16, 2017.

_____, 2018, Standard 7-16, Minimum Design Loads for Buildings and Associated Criteria for Buildings and Other Structures, Supplement 1, effective: December 12, 2018.

California Building Standards Commission, 2019, California Building Code, California Code of Regulations Title 24, Volumes 1 and 2, dated July 2019.

California Department of Transportation (Caltrans), 2021, Corrosion Guidelines, Version 3.2, dated May 2021.

California Geological Survey (CGS), (Previously California Division of Mines and Geology [CDMG]), 2008, California Geological Society Special Publication 117A: Guidelines for Evaluating and Mitigating Seismic Hazards in California.

_____, 2018, Earthquake Fault Zones, Special Publication 42, Revised 2018.

City of Highland, 2022, Site Evaluation and Testing Protocols for Storm Water Infiltration Best Management Practices, 7 pages, received 2022.

County of San Bernardino, 2009, San Bernardino County Land Use Plan General Plan Geologic Hazard Overlays, FH31 C Redlands, Zone of Suspected Liquefaction Susceptibility Layer Compiled by the San Bernardino County Geologist, 2009: http://www.sbcounty.gov/Uploads/lus/GeoHazMaps/FH31C_20100309.pdf

_____, 2013, Technical Guidance Document for Water Quality Management Plans, dated June 7, 2013.

Lew, et al, 2010, Seismic Earth Pressures on Deep Basements, Structural Engineers Association of California (SEAOC) Convention Proceedings.

United States Geological Survey (USGS), 1991, Liquefaction Susceptibility in the San Bernardino Valley and Vicinity, Southern California – A Regional Evaluation, by Jonathan C. Matti & Scott E. Carson, Bulletin 1898, dated 1991.

_____, 2003, Geologic Map of the Redlands 7.5' Quadrangle, San Bernardino and Riverside Counties, California, Version 1.0, by Jonathan C. Matti, Douglas M. Morton, Brett F. Cox, and Katherine J. Kendrick, Open-File Report 03-302, dated 2003.

Southern California Geotechnical (SCG), 2020, Geotechnical Investigation, Proposed San Manuel Industrial Park, SEC 3rd Street at Victoria Avenue, San Bernardino, California, Project No. 20G164-1, dated July 30, 2020.

Structural Engineers Association of California (SEAOC), 2022, Seismic Design Maps, Retrieved June 29, 2022, from https://seismicmaps.org/

United States Geological Survey (USGS), 2014, Unified Hazard Tool, Dynamic: Conterminous U.S. 2014 (update) (v4.2.0), Retrieved June 29, 2022, from: https://earthquake.usgs.gov/hazards/interactive/

Appendix B
Boring Logs

Geotechnical Boring Log Borehole HS-1

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1188' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	0						@0' - 3" Aggregate Base **@3" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>**	
1185		R-1	9 6 6	108.6	1.5	SP	@2.5' - SAND: light reddish brown, dry, loose, minor amounts of gravel	CO
	5	SPT-1	3 6 6		1.7		@5' - SAND: pale reddish brown, dry, medium dense, minor amount of gravel	
1180		R-2	7 11 20	116.8	1.0		@7.5' - SAND: light reddish brown, dry, medium dense, minor amounts of gravel and cobbles	CO
	10	SPT-2	16 25 17		1.5	GP	@10' - GRAVEL with Sand: pale brown, dry, very dense, some cobbles	
1175								
	15	R-3	10 50/6"	109.3	1.9	SP	@15' - SAND: light reddish brown, dry, very dense, minor amounts of gravel and cobbles	
1170								
	20	SPT-3	50/3"		0.9	GP	@20' - GRAVEL with Sand: brown, dry, very dense, minor amounts of cobble @21' - Practical Refusal	
1165								
	25						Total Depth = 21' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022 Caving: 10' after removing augers	
1160								
	30							

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-2

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1189' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
1185	0	B-1						@0' - 3" Aggregate Base **@3" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>**	CR
			R-1	7 7 10	96.8	2.4	SP	@2.5' - SAND: light brown, dry, medium dense, minor amounts of gravel	
	5		SPT-1	6 50/4"		2.5		@5' - SAND with Gravel: light brown, dry, very dense	
			R-2	19 50/3"				@7.5' - SAND with Gravel: light brown, dry, very dense, minor gravel and cobbles	
1180	10		SPT-2	25 50/4"		1.9		@10' - SAND with Gravel: light yellowish brown, dry, very dense, minor amounts of cobble	
								@12' - Practical Refusal	
1175	15							Total Depth = 12' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022 Caving = 5' after removing augers	
1170	20								
1165	25								
1160	30								

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-3

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1179' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	Logged By RNP Sampled By RNP Checked By KBC DESCRIPTION	Type of Test
	0							@0' - 4" Aggregate Base **@4" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>** @2' - Practical Refusal	
1175	5							Total Depth = 2' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022	
1170	10								
1165	15								
1160	20								
1155	25								
1150	30								

LGC Geotechnical, Inc.

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SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
⏚	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-4

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1180' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	0	B-1					@0' - 4" Aggregate Base	EI
							@4" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>	
		R-1	6 10 17	106.6	1.0	SP	@2.5' - SAND: light yellowish brown, dry, medium dense, minor amounts of gravel	
1175	5	SPT-1	7 10 12		0.8		@5' - SAND with Gravel: light reddish brown, dry, medium dense	
		R-2	50/1"				@7.5' - SAND with Gravel: light reddish brown, dry, very dense, minor amounts of cobble	
1170	10	SPT-2	50/3"		0.8	GP	@10' - GRAVEL with Sand: pale brown, dry, very dense, minor amounts of cobble	
							@12' - Practical Refusal	
1165	15						Total Depth = 12' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022 Caving: 5' after removing augers	
1160	20							
1155	25							
1150	30							

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-5

Date: 5/18/2022	**Drilling Company:** Cal Pac Drilling
Project Name: Lovett Industrial - Palm Ave	**Type of Rig:** Truck Mounted
Project Number: 22081-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~1185' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	0							@0' - 2" Asphalt over 3" Aggregate Base **@5" to T.D. - <u>Quaternary Young Axial-Valley Deposits (Qal)</u>** @2' - Practical Refusal	
1180	5							Total Depth = 2' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022	
1175	10								
1170	15								
1165	20								
1160	25								
1155	30								

LGC Geotechnical, Inc.

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SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
⏚	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Geotechnical Boring Log Borehole HS-6

Date: 5/18/2022 | **Drilling Company:** Cal Pac Drilling

Project Name: Lovett Industrial - Palm Ave | **Type of Rig:** Truck Mounted

Project Number: 22081-01 | **Drop:** 30" | **Hole Diameter:** 8"

Elevation of Top of Hole: ~1186' MSL | **Drive Weight:** 140 pounds

Hole Location: See Geotechnical Map

Logged By RNP
Sampled By RNP
Checked By KBC

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
1185	0	B-1						@0' - 3" Aggregate Base **@3" to T.D. - Quaternary Young Axial-Valley Deposits (Qal)**	
			R-1	11 13 18			SP	@2.5' - SAND: brown, dry, medium dense, asphalt base pieces, minor amounts of gravel and cobble	
1180	5		SPT-1	17 50/3"		2.1	GP	@5' - GRAVEL with Sand: brown, dry, very dense, minor amounts of gravel and cobble	
			R-2	50/5"			SP	@7.5' - SAND with Gravel: brown, dry, very dense, minor cobbles	
1175	10		SPT-2	9 21 27		2.7		@10' - SAND with Gravel: brown, dry, very dense, minor cobbles @12' - Practical Refusal	
1170	15							Total Depth = 12' Groundwater Not Encountered Backfilled with Cuttings on 5/18/2022 Caving = 5.5' after removing augers	
1165	20								
1160	25								
	30								

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 6/9/2022

Appendix C
Laboratory Test Results

APPENDIX C

Laboratory Testing Procedures and Test Results

The laboratory testing program was formulated towards providing data relating to the relevant engineering properties of the soils with respect to residential construction. Samples considered representative of site conditions were tested in general accordance with American Society for Testing and Materials (ASTM) procedure and/or California Test Methods (CTM), where applicable. The following summary is a brief outline of the test type and a table summarizing the test results.

Moisture and Density Determination Tests: Moisture content (ASTM D2216) and dry density determinations (ASTM D2937) were performed on relatively undisturbed samples obtained from the test borings and/or trenches. The results of these tests are presented in the boring logs. Where applicable, only moisture content was determined from undisturbed or disturbed samples.

Expansion Index: The expansion potential of selected samples was evaluated by the Expansion Index Test, Standard ASTM D4829. Specimens are molded under a given compactive energy to approximately the optimum moisture content and approximately 50 percent saturation or approximately 90 percent relative compaction. The prepared 1-inch-thick by 4-inch-diameter specimens are loaded to an equivalent 144 psf surcharge and are inundated with tap water until volumetric equilibrium is reached. The results of these tests are presented in the table below.

Sample Location	Expansion Index	Expansion Potential*
HS-4 @ 1-5 feet	1	Very Low

* ASTM D4829

Collapse/Swell Potential: Two collapse tests were performed per ASTM D4546. Samples (2.4 inches in diameter and 1-inch in height) were placed in a consolidometer and loaded to their approximate in-situ effective stress. The results are in this appendix.

Chloride Content: Chloride content was tested in accordance with Caltrans Test Method (CTM) 422. The results are presented below.

Sample Location	Chloride Content, ppm
LGC-HS-1 @ 1-5 feet	220

Laboratory Testing Procedures and Test Results

Soluble Sulfates: The soluble sulfate contents of selected samples were determined by standard geochemical methods (CTM 417). The soluble sulfate content is used to determine the appropriate cement type and maximum water-cement ratios. The test results are presented in the table below.

Sample Location	Sulfate Content (ppm)	Sulfate Exposure Class *
LGC-HS-1 @ 1-5 feet	58	S0

*Based on ACI 318R-14, Table 19.3.1.1

Minimum Resistivity and pH Tests: Minimum resistivity and pH tests were performed in general accordance with CTM 643 and standard geochemical methods. The results are presented in the table below.

Sample Location	pH	Minimum Resistivity (ohms-cm)
LGC-HS-1 @ 1-5 feet	6.82	3,398

ONE-DIMENSIONAL SWELL OR SETTLEMENT POTENTIAL OF COHESIVE SOILS

ASTM D 4546

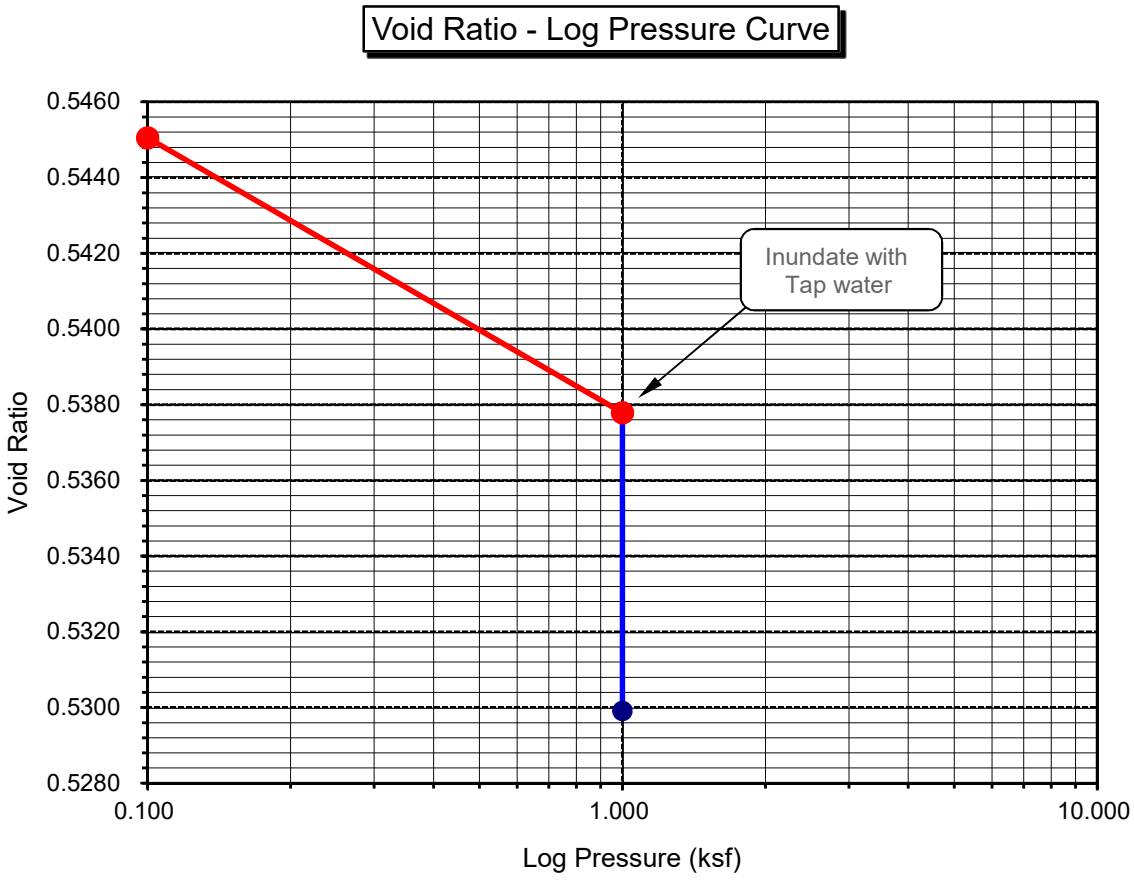
Project Name:	Lovett Industrial - Palm, Highland	Tested By:	G. Bathala	Date:	06/07/22
Project No.:	22081-01	Checked By:	J. Ward	Date:	06/21/22
Boring No.:	HS-1	Sample Type:	Ring		
Sample No.:	R-1	Depth (ft.)	2.5		
Sample Description:	Light olive brown poorly-graded sand with silt (SP-SM)				

Initial Dry Density (pcf):	109.1
Initial Moisture (%):	1.55
Initial Length (in.):	1.0000
Initial Dial Reading:	0.0943
Diameter(in):	2.415

Final Dry Density (pcf):	110.7
Final Moisture (%) :	14.3
Initial Void ratio:	0.5454
Specific Gravity(assumed):	2.70
Initial Saturation (%)	7.7

Pressure (p) (ksf)	Final Reading (in)	Apparent Thickness (in)	Load Compliance (%)	Swell (+) Settlement (-) % of Sample Thickness	Void Ratio	Corrected Deformation (%)
0.100	0.0945	0.9998	0.00	-0.02	0.5451	-0.02
1.000	0.1015	0.9928	0.23	-0.72	0.5378	-0.49
H2O	0.1066	0.9877	0.23	-1.23	0.5299	-1.00

Percent Swell (+) / Settlement (-) After Inundation = -0.51



ONE-DIMENSIONAL SWELL OR SETTLEMENT POTENTIAL OF COHESIVE SOILS

ASTM D 4546

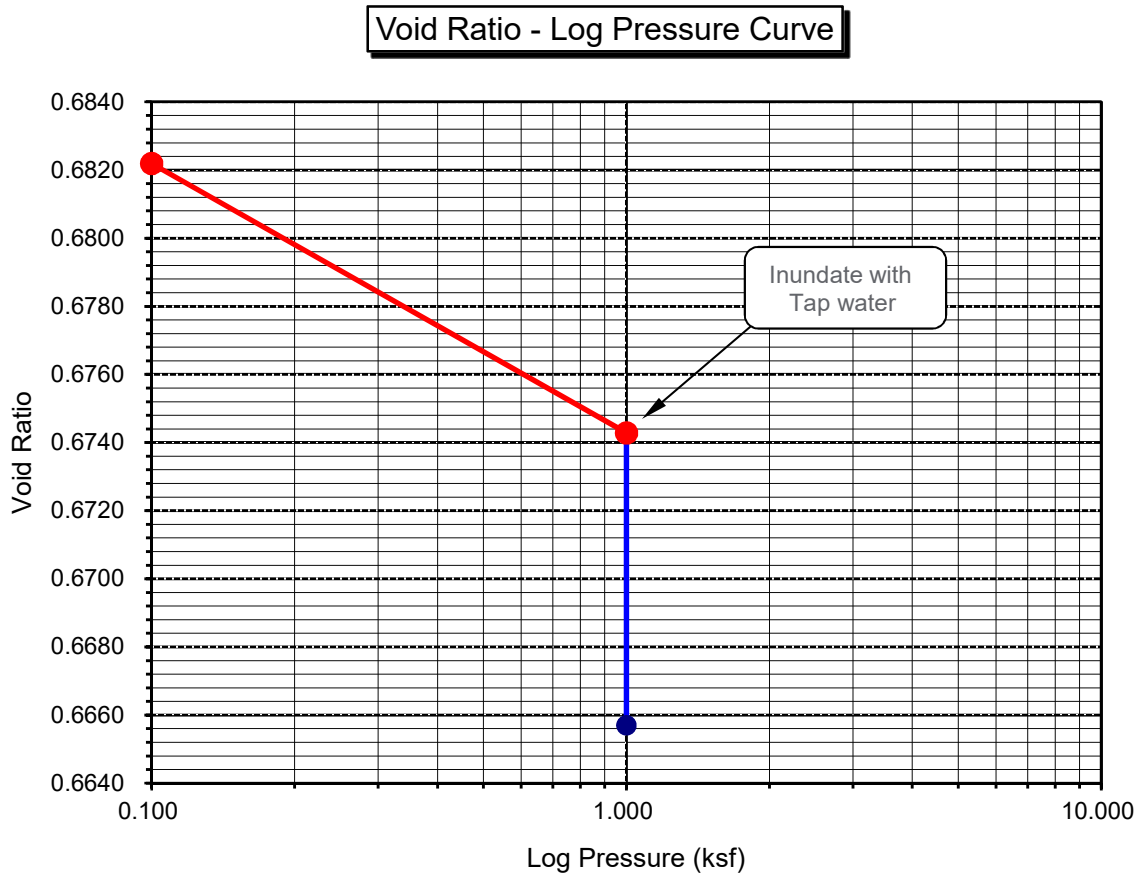
Project Name:	Lovett Industrial - Palm, Highland	Tested By:	G. Bathala	Date:	06/07/22
Project No.:	22081-01	Checked By:	J. Ward	Date:	06/27/22
Boring No.:	HS-1	Sample Type:	Ring		
Sample No.:	R-2	Depth (ft.)	7.5		
Sample Description:	Light yellowish brown poorly-graded sand (SP)				

Initial Dry Density (pcf):	100.2
Initial Moisture (%):	1.13
Initial Length (in.):	1.0000
Initial Dial Reading:	0.1452
Diameter(in):	2.415

Final Dry Density (pcf):	101.6
Final Moisture (%) :	16.5
Initial Void ratio:	0.6825
Specific Gravity(assumed):	2.70
Initial Saturation (%)	4.5

Pressure (p) (ksf)	Final Reading (in)	Apparent Thickness (in)	Load Compliance (%)	Swell (+) Settlement (-) % of Sample Thickness	Void Ratio	Corrected Deformation (%)
0.100	0.1454	0.9998	0.00	-0.02	0.6822	-0.02
1.000	0.1523	0.9929	0.22	-0.71	0.6743	-0.49
H2O	0.1574	0.9878	0.22	-1.22	0.6657	-1.00

Percent Swell (+) / Settlement (-) After Inundation = -0.51



Appendix D
Infiltration Data

Infiltration Test Data Sheet

LGC Geotechnical, Inc
131 Calle Iglesia Suite 200, San Clemente, CA 92672 tel. (949) 369-6141

Project Name: Lovett Industrial - Palm
Project Number: 22081-01
Date: 5/19/2022
Boring Number: I-1

Test hole dimensions (if circular)	
Boring Depth (feet)*:	10
Boring Diameter (inches):	8
Pipe Diameter (inches):	3

*measured at time of test

Test pit dimensions (if rectangular)	
Pit Depth (feet):	
Pit Length (feet):	
Pit Breadth (feet):	

*Pre-Test (Sandy Soil Criteria)**

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval (min)	Initial Depth to Water (feet)	Final Depth to Water (feet)	Total Change in Water Level (feet)	Greater Than or Equal to 0.5 feet (yes/no)
1	7:36	8:01	25.0	7.28	9.61	2.33	Yes
2	8:03	8:28	25.0	7.33	9.53	2.20	Yes

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak (fill) overnight, and then obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25 inches

Main Test Data

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval, Δt (min)	Initial Depth to Water, D_o (feet)	Final Depth to Water, D_f (feet)	Change in Water Level, ΔD (feet)	Observed Infiltration Rate(in/hr)
1	8:35	8:45	10.0	7.50	9.03	1.53	9.7
2	8:47	8:57	10.0	7.93	9.38	1.45	11.5
3	9:04	9:14	10.0	7.70	8.91	1.21	7.8
4	9:16	9:26	10.0	7.82	9.17	1.35	9.7
5	9:33	9:43	10.0	7.73	8.85	1.12	7.2
6	9:51	10:01	10.0	7.84	9.02	1.18	8.2

Observed Infiltration Rate (Does Not Include Any Factor of Safety) **8.2**

Sketch:

Notes:

Based on Guidelines from: San Bernardino County (2013)
Spreadsheet Revised on: 6/29/2018

LGC Geotechnical, Inc.

Infiltration Test Data Sheet

LGC Geotechnical, Inc
131 Calle Iglesia Suite 200, San Clemente, CA 92672 tel. (949) 369-6141

Project Name: Lovett Industrial - Palm
Project Number: 22081-01
Date: 5/19/2022
Boring Number: I-2

Test hole dimensions (if circular)	
Boring Depth (feet)*:	9.5
Boring Diameter (inches):	8
Pipe Diameter (inches):	3

*measured at time of test

Test pit dimensions (if rectangular)	
Pit Depth (feet):	
Pit Length (feet):	
Pit Breadth (feet):	

*Pre-Test (Sandy Soil Criteria)**

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval (min)	Initial Depth to Water (feet)	Final Depth to Water (feet)	Total Change in Water Level (feet)	Greater Than or Equal to 0.5 feet (yes/no)
1	7:38	8:03	25.0	7.26	8.93	1.67	Yes
2	8:05	8:30	25.0	7.27	8.78	1.51	Yes

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak (fill) overnight, and then obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25 inches

Main Test Data

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval, Δt (min)	Initial Depth to Water, D_o (feet)	Final Depth to Water, D_f (feet)	Change in Water Level, ΔD (feet)	Observed Infiltration Rate(in/hr)
1	8:37	8:47	10.0	7.73	8.86	1.13	9.9
2	8:49	8:59	10.0	7.12	8.57	1.45	9.6
3	9:08	9:18	10.0	7.84	8.93	1.09	10.2
4	9:20	9:30	10.0	7.04	8.39	1.35	8.3
5	9:35	9:45	10.0	7.17	8.21	1.04	6.3
6	9:53	10:03	10.0	7.54	8.65	1.11	8.5

Observed Infiltration Rate (Does Not Include Any Factor of Safety) **8.5**

Sketch:

Notes:

Based on Guidelines from: San Bernardino County (2013)
Spreadsheet Revised on: 6/29/2018

LGC Geotechnical, Inc.

Infiltration Test Data Sheet

LGC Geotechnical, Inc
131 Calle Iglesia Suite 200, San Clemente, CA 92672 tel. (949) 369-6141

Project Name: Lovett Industrial - Palm
Project Number: 22081-01
Date: 5/19/2022
Boring Number: I-3

Test hole dimensions (if circular)	
Boring Depth (feet)*:	8
Boring Diameter (inches):	8
Pipe Diameter (inches):	3

*measured at time of test

Test pit dimensions (if rectangular)	
Pit Depth (feet):	
Pit Length (feet):	
Pit Breadth (feet):	

*Pre-Test (Sandy Soil Criteria)**

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval (min)	Initial Depth to Water (feet)	Final Depth to Water (feet)	Total Change in Water Level (feet)	Greater Than or Equal to 0.5 feet (yes/no)
1	10:16	10:41	25.0	6.37	7.91	1.54	Yes
2	10:43	11:08	25.0	6.22	7.85	1.63	Yes

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak (fill) overnight, and then obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25 inches

Main Test Data

Trial No.	Start Time (24:HR)	Stop Time (24:HR)	Time Interval, Δt (min)	Initial Depth to Water, D_o (feet)	Final Depth to Water, D_f (feet)	Change in Water Level, ΔD (feet)	Observed Infiltration Rate(in/hr)
1	11:11	11:21	10.0	6.76	7.87	1.11	15.6
2	11:23	11:33	10.0	6.72	7.81	1.09	14.5
3	11:39	11:49	10.0	6.88	7.92	1.04	16.3
4	11:51	12:01	10.0	6.48	7.66	1.18	12.9
5	12:05	12:15	10.0	6.49	7.55	1.06	11.1
6	12:17	12:27	10.0	6.75	7.76	1.01	13.3

Observed Infiltration Rate (Does Not Include Any Factor of Safety) **13.3**

Sketch:

Notes:

Based on Guidelines from: San Bernardino County (2013)
Spreadsheet Revised on: 6/29/2018

LGC Geotechnical, Inc.

Appendix E
General Earthwork & Grading

General Earthwork and Grading Specifications for Rough Grading

1.0 General

1.1 Intent

These General Earthwork and Grading Specifications are for the grading and earthwork shown on the approved grading plan(s) and/or indicated in the geotechnical report(s). These Specifications are a part of the recommendations contained in the geotechnical report(s). In case of conflict, the specific recommendations in the geotechnical report shall supersede these more general Specifications. Observations of the earthwork by the project Geotechnical Consultant during the course of grading may result in new or revised recommendations that could supersede these specifications or the recommendations in the geotechnical report(s).

1.2 The Geotechnical Consultant of Record

Prior to commencement of work, the owner shall employ a qualified Geotechnical Consultant of Record (Geotechnical Consultant). The Geotechnical Consultant shall be responsible for reviewing the approved geotechnical report(s) and accepting the adequacy of the preliminary geotechnical findings, conclusions, and recommendations prior to the commencement of the grading.

Prior to commencement of grading, the Geotechnical Consultant shall review the "work plan" prepared by the Earthwork Contractor (Contractor) and schedule sufficient personnel to perform the appropriate level of observation, mapping, and compaction testing.

During the grading and earthwork operations, the Geotechnical Consultant shall observe, map, and document the subsurface exposures to verify the geotechnical design assumptions. If the observed conditions are found to be significantly different than the interpreted assumptions during the design phase, the Geotechnical Consultant shall inform the owner, recommend appropriate changes in design to accommodate the observed conditions, and notify the review agency where required.

The Geotechnical Consultant shall observe the moisture-conditioning and processing of the subgrade and fill materials and perform relative compaction testing of fill to confirm that the attained level of compaction is being accomplished as specified. The Geotechnical Consultant shall provide the test results to the owner and the Contractor on a routine and frequent basis.

1.3 The Earthwork Contractor

The Earthwork Contractor (Contractor) shall be qualified, experienced, and knowledgeable in earthwork logistics, preparation and processing of ground to receive fill, moisture-conditioning and processing of fill, and compacting fill. The Contractor shall review and accept the plans, geotechnical report(s), and these Specifications prior to commencement of grading. The Contractor shall be solely responsible for performing the grading in accordance with the project plans and specifications. The Contractor shall prepare and submit to the owner and the Geotechnical Consultant a work plan that indicates the sequence of earthwork grading, the number of “equipment” of work and the estimated quantities of daily earthwork

contemplated for the site prior to commencement of grading. The Contractor shall inform the owner and the
Geotechnical Consultant of changes in work schedules and updates to the work plan at least 24 hours in advance of such changes so that appropriate personnel will be available for observation and testing. The Contractor shall not assume that the Geotechnical Consultant is aware of all grading operations.

The Contractor shall have the sole responsibility to provide adequate equipment and methods to accomplish the earthwork in accordance with the applicable grading codes and agency ordinances, these Specifications, and the recommendations in the approved geotechnical report(s) and grading plan(s). If, in the opinion of the Geotechnical Consultant, unsatisfactory conditions, such as unsuitable soil, improper moisture condition, inadequate compaction, insufficient buttress key size, adverse weather, etc., are resulting in a quality of work less than required in these specifications, the Geotechnical Consultant shall reject the work and may recommend to the owner that construction be stopped until the conditions are rectified. It is the contractor's sole responsibility to provide proper fill compaction.

2.0 Preparation of Areas to be Filled

2.1 Clearing and Grubbing

Vegetation, such as brush, grass, roots, and other deleterious material shall be sufficiently removed and properly disposed of in a method acceptable to the owner, governing agencies, and the Geotechnical Consultant.

The Geotechnical Consultant shall evaluate the extent of these removals depending on specific site conditions. Earth fill material shall not contain more than 1 percent of organic materials (by volume). Nesting of the organic materials shall not be allowed.

If potentially hazardous materials are encountered, the Contractor shall stop work in the affected area, and a hazardous material specialist shall be informed immediately for proper evaluation and handling of these materials prior to continuing to work in that area.

As presently defined by the State of California, most refined petroleum products (gasoline, diesel fuel, motor oil, grease, coolant, etc.) have chemical constituents that are considered to be hazardous waste. As such, the indiscriminate dumping or spillage of these fluids onto the ground may constitute a misdemeanor, punishable by fines and/or imprisonment, and shall not be allowed. The contractor is responsible for all hazardous waste relating to his work. The Geotechnical Consultant does not have expertise in this area. If hazardous waste is a concern, then the Client should acquire the services of a qualified environmental assessor.

2.2 Processing

Existing ground that has been declared satisfactory for support of fill by the Geotechnical Consultant shall be scarified to a minimum depth of 6 inches. Existing ground that is not satisfactory shall be over-excavated as specified in the following section. Scarification shall continue until soils are broken down and free of oversize material and the working surface is reasonably uniform, flat, and free of uneven features that would inhibit uniform compaction.

2.3 Over-excavation

In addition to removals and over-excavations recommended in the approved geotechnical report(s) and the grading plan, soft, loose, dry, saturated, spongy, organic-rich, highly fractured or otherwise unsuitable ground shall be over-excavated to competent ground as evaluated by the Geotechnical Consultant during grading.

2.4 Benching

Where fills are to be placed on ground with slopes steeper than 5:1 (horizontal to vertical units), the ground shall be stepped or benched. Please see the Standard Details for a graphic illustration. The lowest bench or key shall be a minimum of 15 feet wide and at least 2 feet deep, into competent material as evaluated by the Geotechnical Consultant. Other benches shall be excavated a minimum height of 4 feet into competent material or as otherwise recommended by the Geotechnical Consultant. Fill placed on ground sloping flatter than 5:1 shall also be benched or otherwise over-excavated to provide a flat subgrade for the fill.

2.5 Evaluation/Acceptance of Fill Areas

All areas to receive fill, including removal and processed areas, key bottoms, and benches, shall be observed, mapped, elevations recorded, and/or tested prior to being accepted by the Geotechnical Consultant as suitable to receive fill. The Contractor shall obtain a written acceptance from the Geotechnical Consultant prior to fill placement. A licensed surveyor shall provide the survey control for determining elevations of processed areas, keys, and benches.

3.0 Fill Material

3.1 General

Material to be used as fill shall be essentially free of organic matter and other deleterious substances evaluated and accepted by the Geotechnical Consultant prior to placement. Soils of poor quality, such as those with unacceptable gradation, high expansion potential, or low strength shall be placed in areas acceptable to the Geotechnical Consultant or mixed with other soils to achieve satisfactory fill material.

3.2 Oversize

Oversize material defined as rock, or other irreducible material with a maximum dimension greater than 8 inches, shall not be buried or placed in fill unless location, materials, and placement methods are specifically accepted by the Geotechnical Consultant. Placement operations shall be such that nesting of oversized material does not occur and such that oversize material is completely surrounded by compacted or densified fill. Oversize material shall not be placed within 10 vertical feet of finish grade or within 2 feet of future utilities or underground construction.

3.3 Import

If importing of fill material is required for grading, proposed import material shall meet the requirements of the geotechnical consultant. The potential import source shall be given to the Geotechnical Consultant at least 48 hours (2 working days) before importing begins so that its suitability can be determined and appropriate tests performed.

4.0 Fill Placement and Compaction

4.1 Fill Layers

Approved fill material shall be placed in areas prepared to receive fill (per Section 3.0) in near-horizontal layers not exceeding 8 inches in loose thickness. The Geotechnical Consultant may accept thicker layers if testing indicates the grading procedures can adequately compact the thicker layers. Each layer shall be spread evenly and mixed thoroughly to attain relative uniformity of material and moisture throughout.

4.2 Fill Moisture Conditioning

Fill soils shall be watered, dried back, blended, and/or mixed, as necessary to attain a relatively uniform moisture content at or slightly over optimum. Maximum density and optimum soil moisture content tests shall be performed in accordance with the American Society of Testing and Materials (ASTM Test Method D1557).

4.3 Compaction of Fill

After each layer has been moisture-conditioned, mixed, and evenly spread, it shall be uniformly compacted to not less than 90 percent of maximum dry density (ASTM Test Method D1557). Compaction equipment shall be adequately sized and be either specifically designed for soil compaction or of proven reliability to efficiently achieve the specified level of compaction with uniformity.

4.4 Compaction of Fill Slopes

In addition to normal compaction procedures specified above, compaction of slopes shall be accomplished by backrolling of slopes with sheepsfoot rollers at increments of 3 to 4 feet in fill elevation, or by other methods producing satisfactory results acceptable to the Geotechnical Consultant. Upon completion of grading, relative compaction of the fill, out to the slope face, shall be at least 90 percent of maximum density per ASTM Test Method D1557.

4.5 Compaction Testing

Field tests for moisture content and relative compaction of the fill soils shall be performed by the Geotechnical Consultant. Location and frequency of tests shall be at the Consultant's discretion based on field conditions encountered. Compaction test locations will not necessarily be selected on a random basis. Test locations shall be selected to verify adequacy of compaction levels in areas that are judged to be prone to inadequate compaction (such as close to slope faces and at the fill/bedrock benches).

4.6 Frequency of Compaction Testing

Tests shall be taken at intervals not exceeding 2 feet in vertical rise and/or 1,000 cubic yards of compacted fill soils embankment. In addition, as a guideline, at least one test shall be taken on slope faces for each 5,000 square feet of slope face and/or each 10 feet of vertical height of slope. The Contractor shall assure that fill construction is such that the testing schedule can be accomplished by the Geotechnical Consultant. The Contractor shall stop or slow down the earthwork construction if these minimum standards are not met.

4.7 Compaction Test Locations

The Geotechnical Consultant shall document the approximate elevation and horizontal coordinates of each test location. The Contractor shall coordinate with the project surveyor to assure that sufficient grade stakes are established so that the Geotechnical Consultant can determine the test locations with sufficient accuracy. At a minimum, two grade stakes within a horizontal distance of 100 feet and vertically less than
5 feet apart from potential test locations shall be provided.

5.0 Subdrain Installation

Subdrain systems shall be installed in accordance with the approved geotechnical report(s), the grading plan, and the Standard Details. The Geotechnical Consultant may recommend additional subdrains and/or changes in subdrain extent, location, grade, or material depending on conditions encountered during grading. All subdrains shall be surveyed by a land surveyor/civil engineer for line and grade after installation and prior to burial. Sufficient time should be allowed by the Contractor for these surveys.

6.0 Excavation

Excavations, as well as over-excavation for remedial purposes, shall be evaluated by the Geotechnical Consultant during grading. Remedial removal depths shown on geotechnical plans are estimates only. The actual extent of removal shall be determined by the Geotechnical Consultant based on the field evaluation of exposed conditions during grading. Where fill-over-cut slopes are to be graded, the cut portion of the slope shall be made, evaluated, and accepted by the Geotechnical Consultant prior to placement of materials for construction of the fill portion of the slope, unless otherwise recommended by the Geotechnical Consultant.

7.0 Trench Backfills

7.1 The Contractor shall follow all OHSA and Cal/OSHA requirements for safety of trench excavations.

7.2 All bedding and backfill of utility trenches shall be done in accordance with the applicable provisions of Standard Specifications of Public Works Construction. Bedding material shall have a Sand Equivalent greater than 30 (SE>30). The bedding shall be placed to 1 foot over

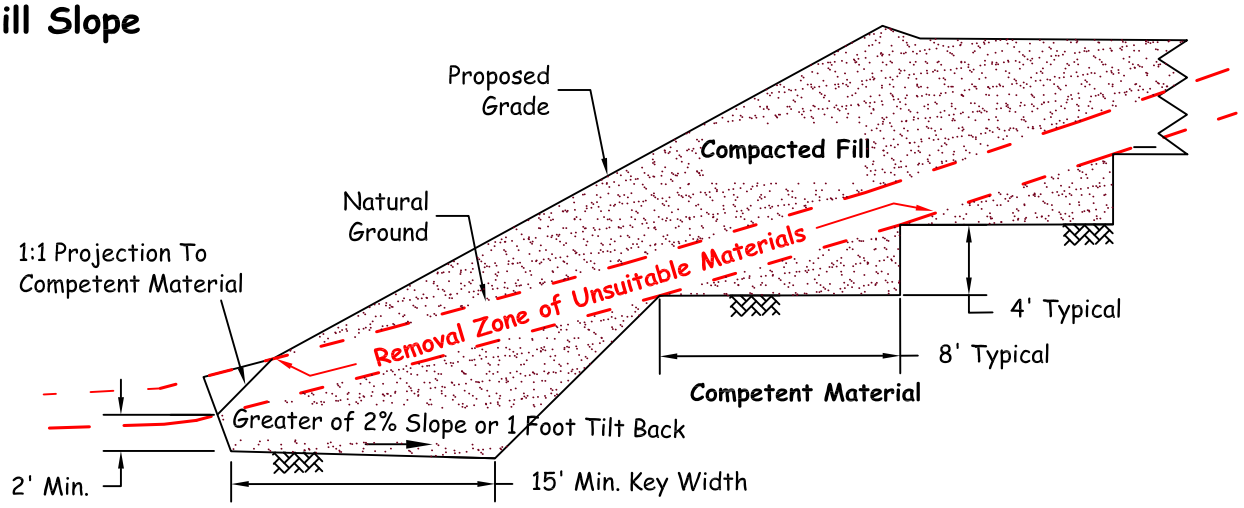
the top of the conduit and densified by jetting. Backfill shall be placed and densified to a minimum of 90 percent of maximum from 1 foot above the top of the conduit to the surface.

7.3 The jetting of the bedding around the conduits shall be observed by the Geotechnical Consultant.

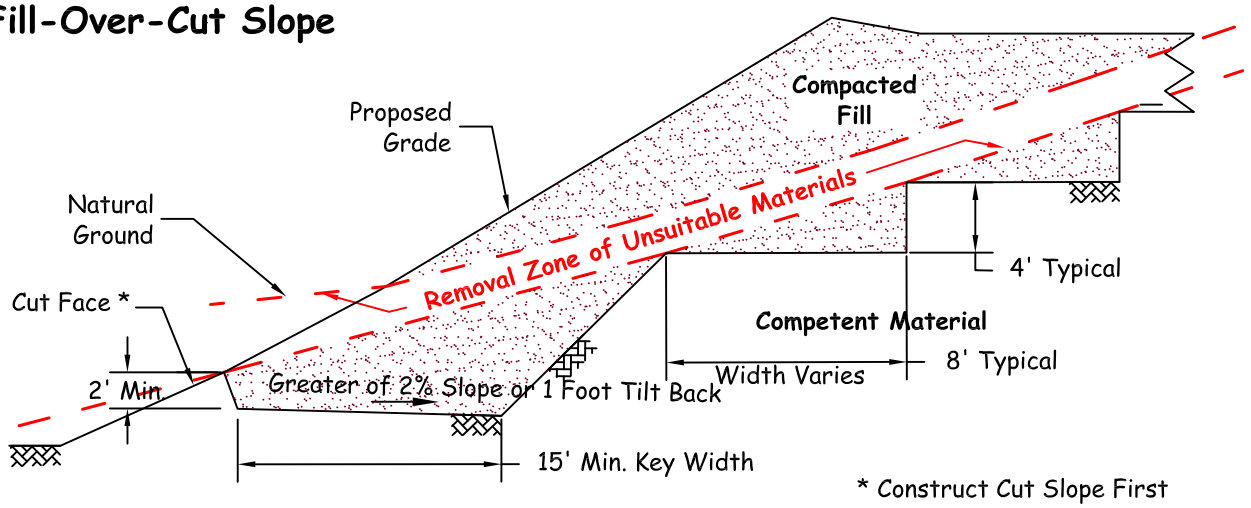
7.4 The Geotechnical Consultant shall test the trench backfill for relative compaction. At least one test should be made for every 300 feet of trench and 2 feet of fill.

7.5 Lift thickness of trench backfill shall not exceed those allowed in the Standard Specifications of Public Works Construction unless the Contractor can demonstrate to the Geotechnical Consultant that the fill lift can be compacted to the minimum relative compaction by his alternative equipment and method.

Fill Slope

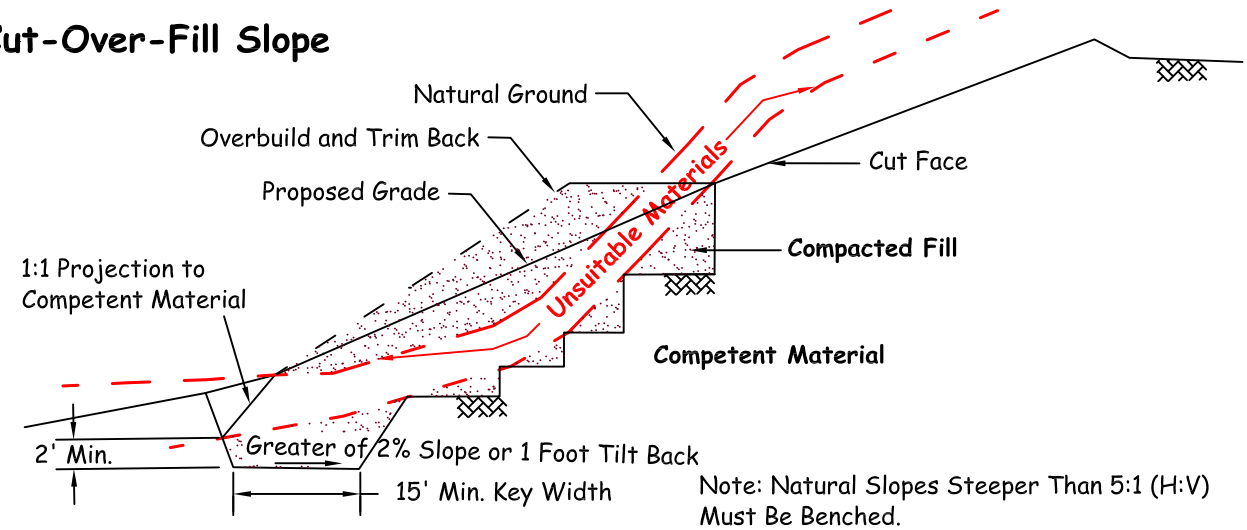


Fill-Over-Cut Slope



* Construct Cut Slope First

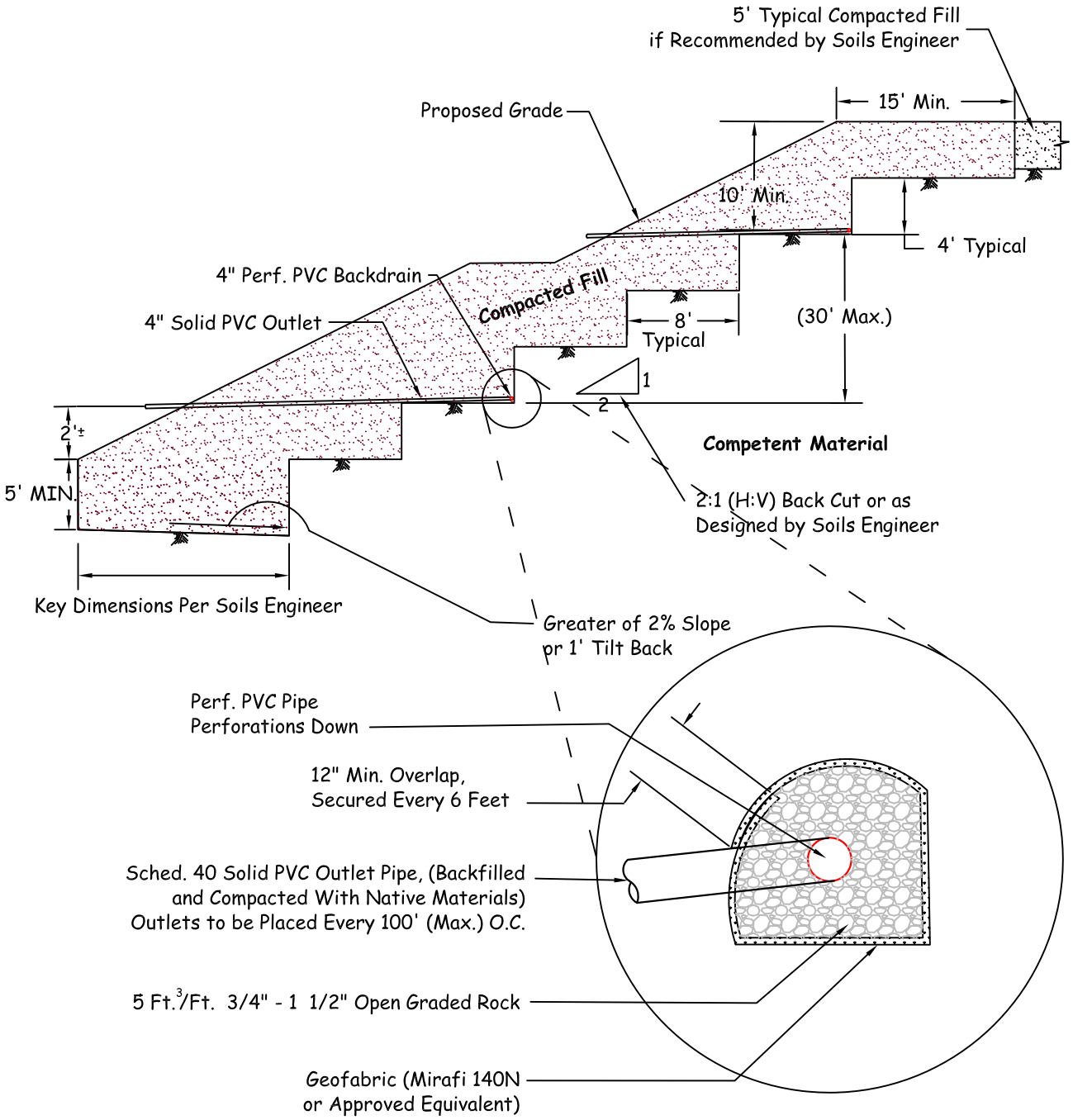
Cut-Over-Fill Slope



Note: Natural Slopes Steeper Than 5:1 (H:V) Must Be Benched.

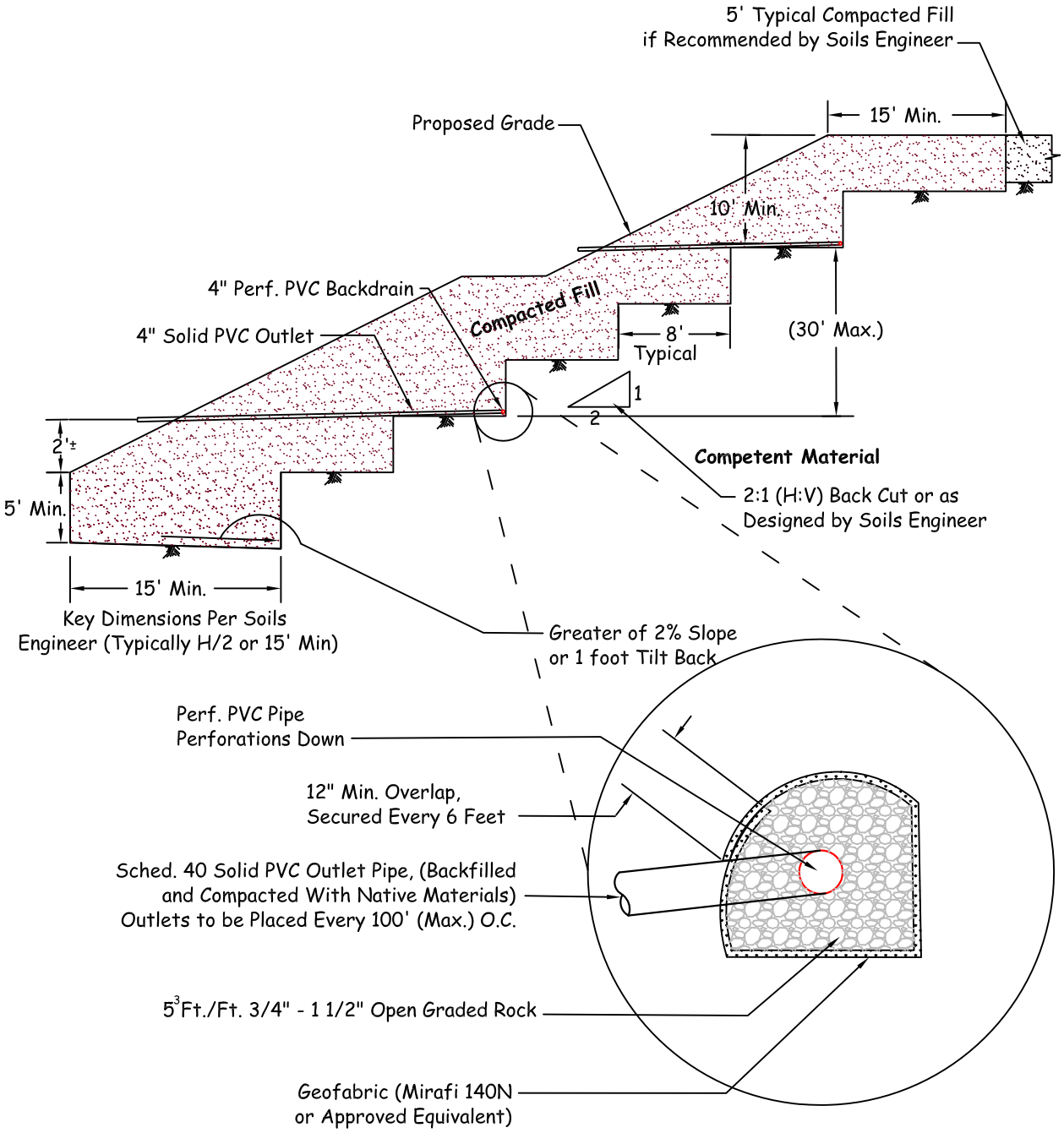
LGC Geotechnical, Inc.

KEYING AND BENCHING



LGC Geotechnical, Inc.

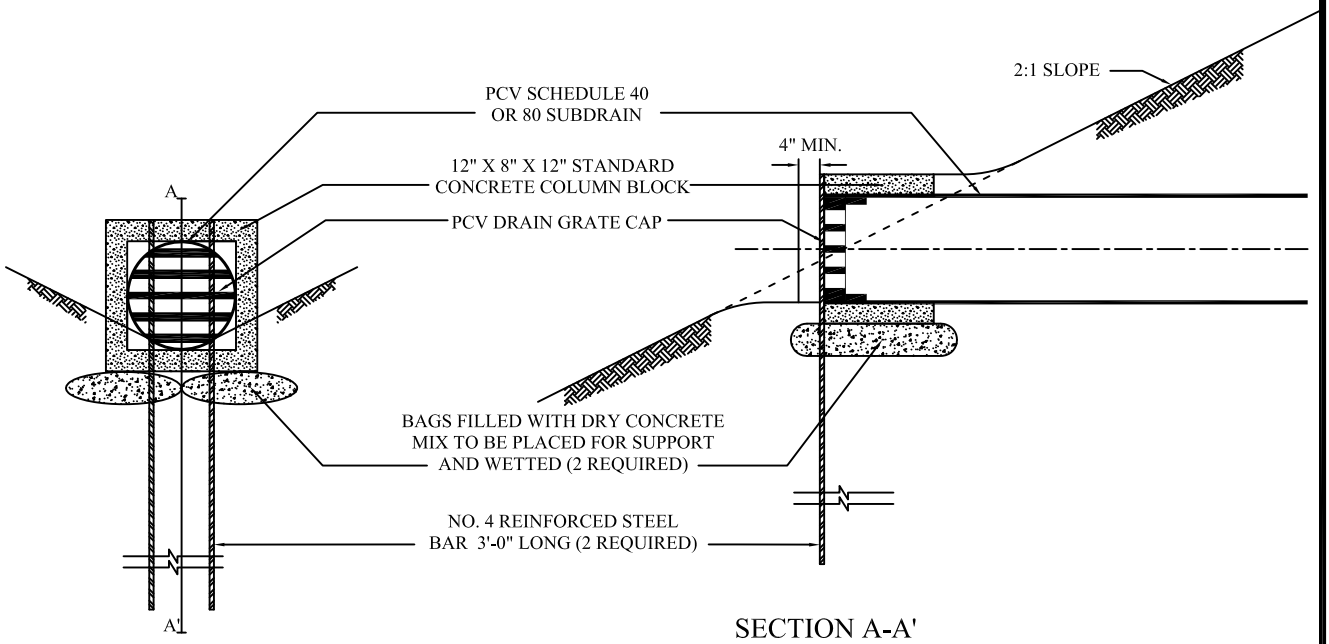
TYPICAL BUTTRESS DETAIL



LGC Geotechnical, Inc.

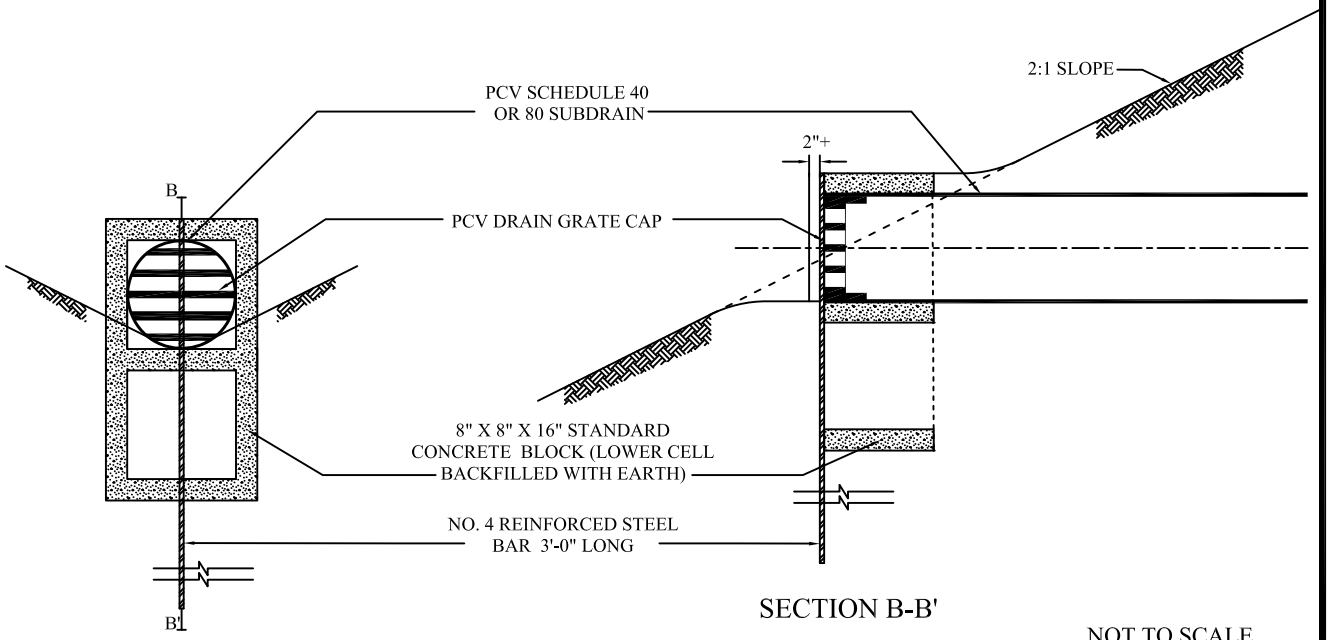
TYPICAL STABILIZATION FILL DETAIL

SUBDRAIN OUTLET MARKER -6" & 8" PIPE



SECTION A-A'

SUBDRAIN OUTLET MARKER -4" PIPE



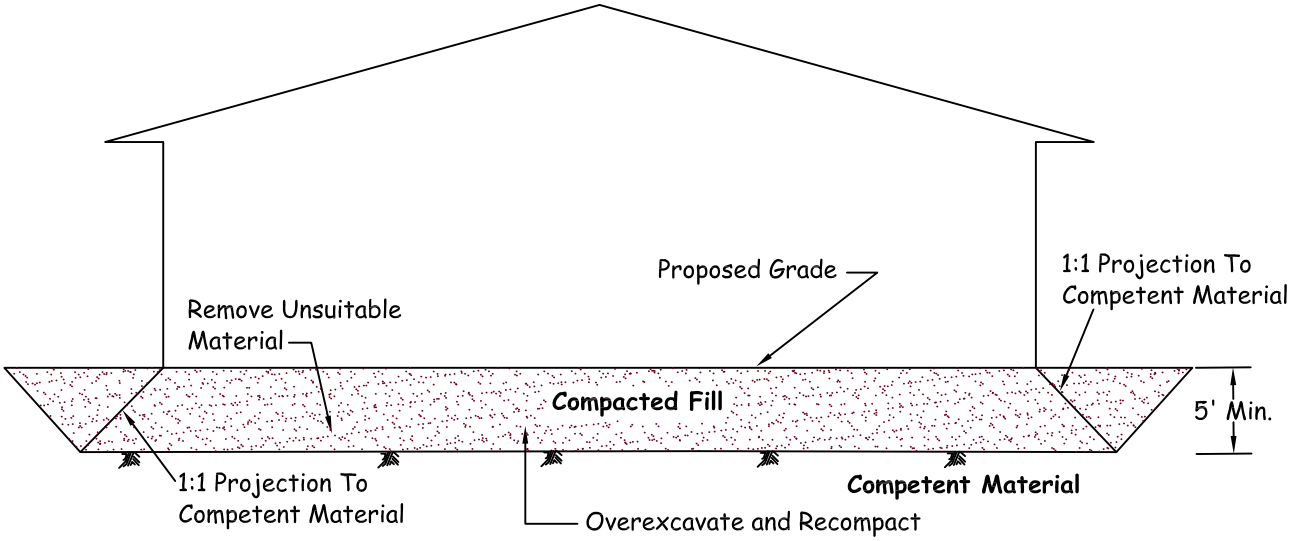
SECTION B-B'

NOT TO SCALE

LGC Geotechnical, Inc.

SUBDRAIN OUTLET MARKER DETAIL

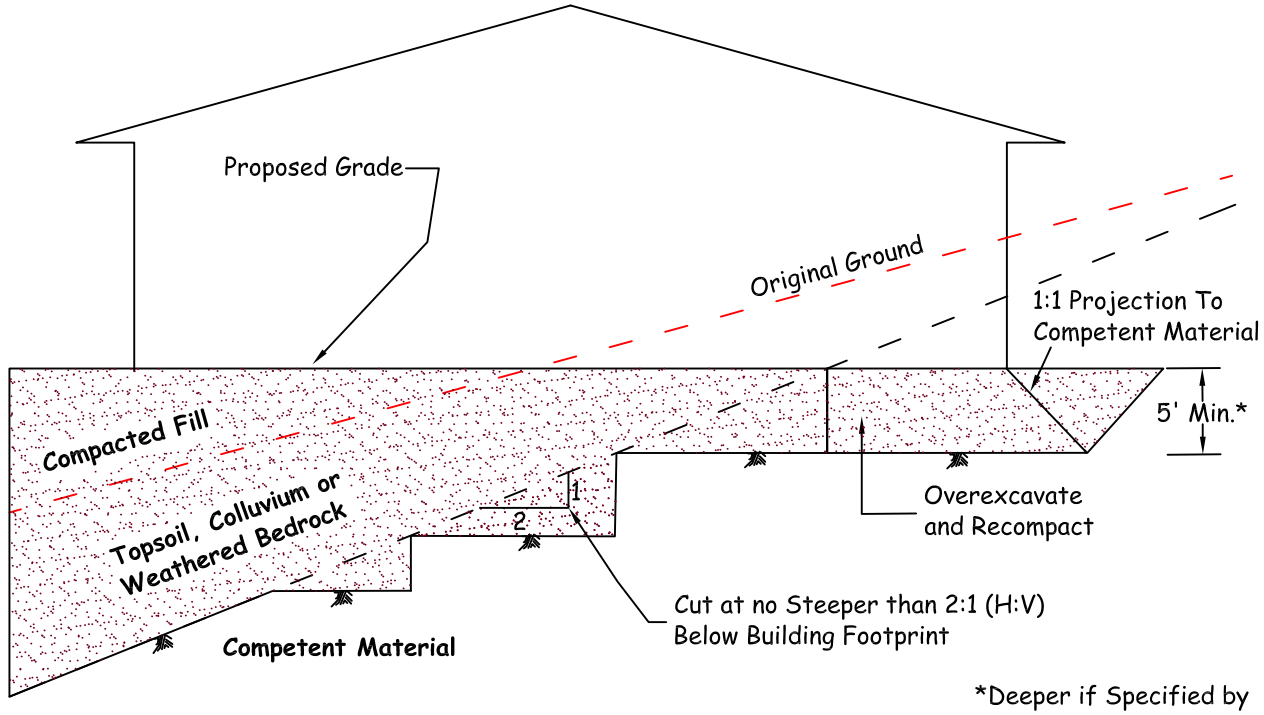
Cut Lot
(Exposing Unsuitable Soils at Design Grade)



Note 1: Removal Bottom Should be Graded With Minimum 2% Fall Towards Street or Other Suitable Area (as Determined by Soils Engineer) to Avoid Ponding Below Building

Note 2: Where Design Cut Lots are Excavated Entirely Into Competent Material, Overexcavation May Still be Required for Hard-Rock Conditions or for Materials With Variable Expansion Characteristics.

Cut/Fill Transition Lot



*Deeper if Specified by Soils Engineer

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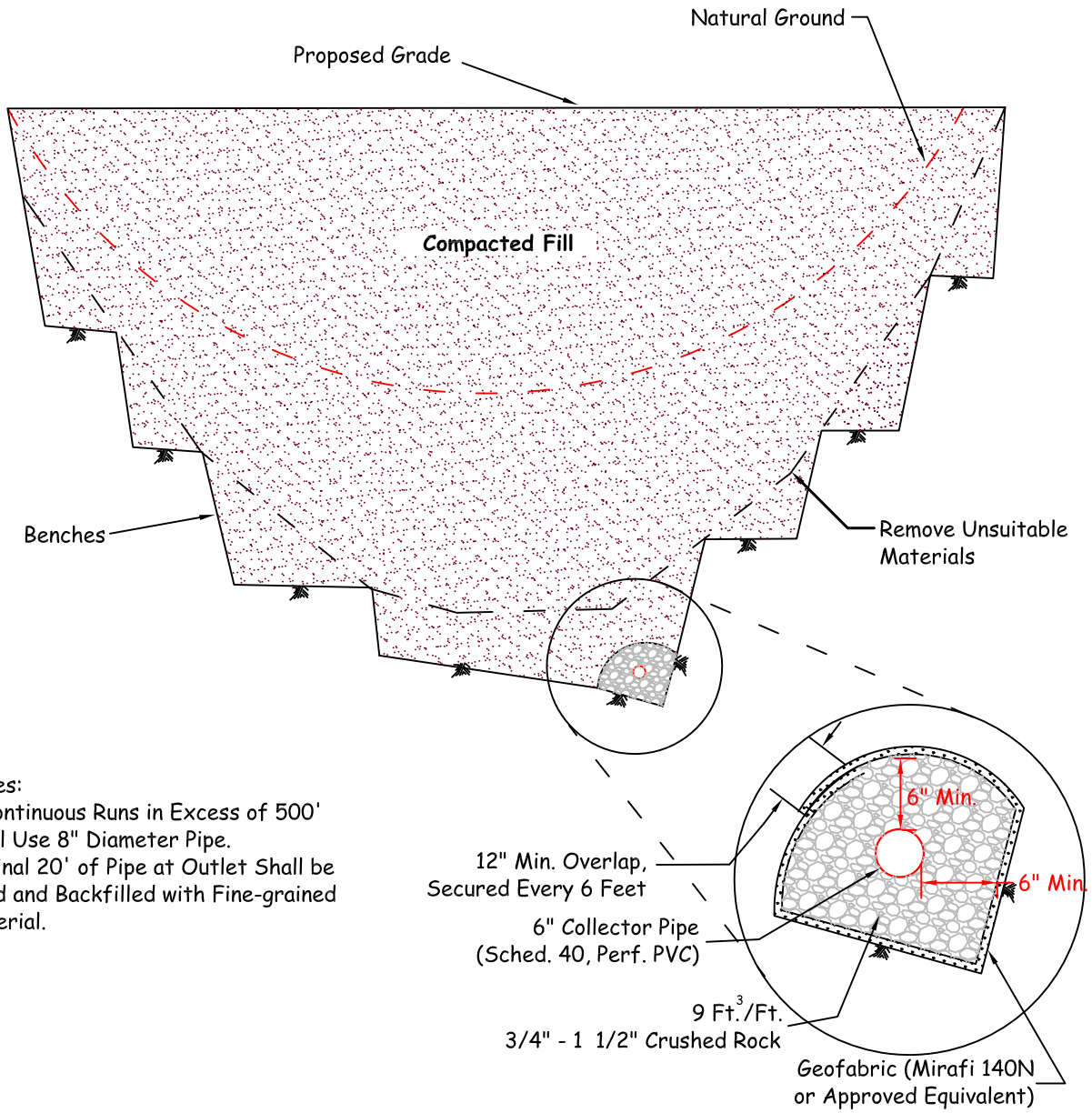
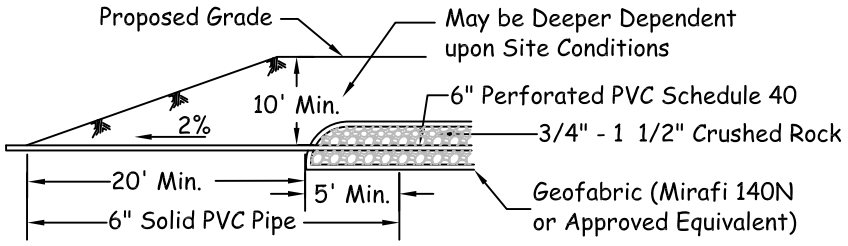
CUT AND TRANSITION LOT OVEREXCAVATION DETAIL



Notes:
1) Continuous Runs in Excess of 500' Shall Use 8" Diameter Pipe.
2) Final 20' of Pipe at Outlet Shall be Solid and Backfilled with Fine-grained Material.

Proposed Outlet Detail



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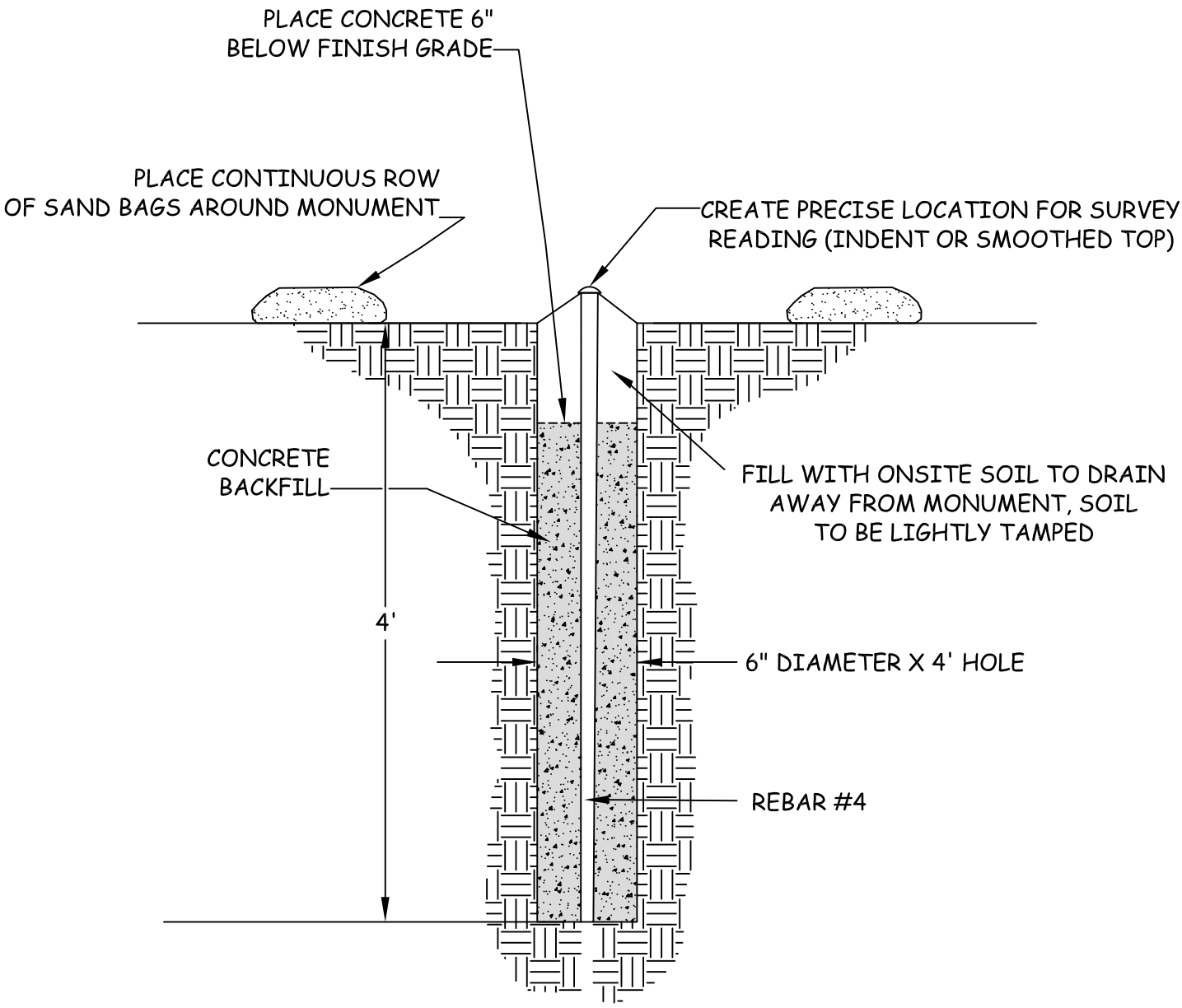
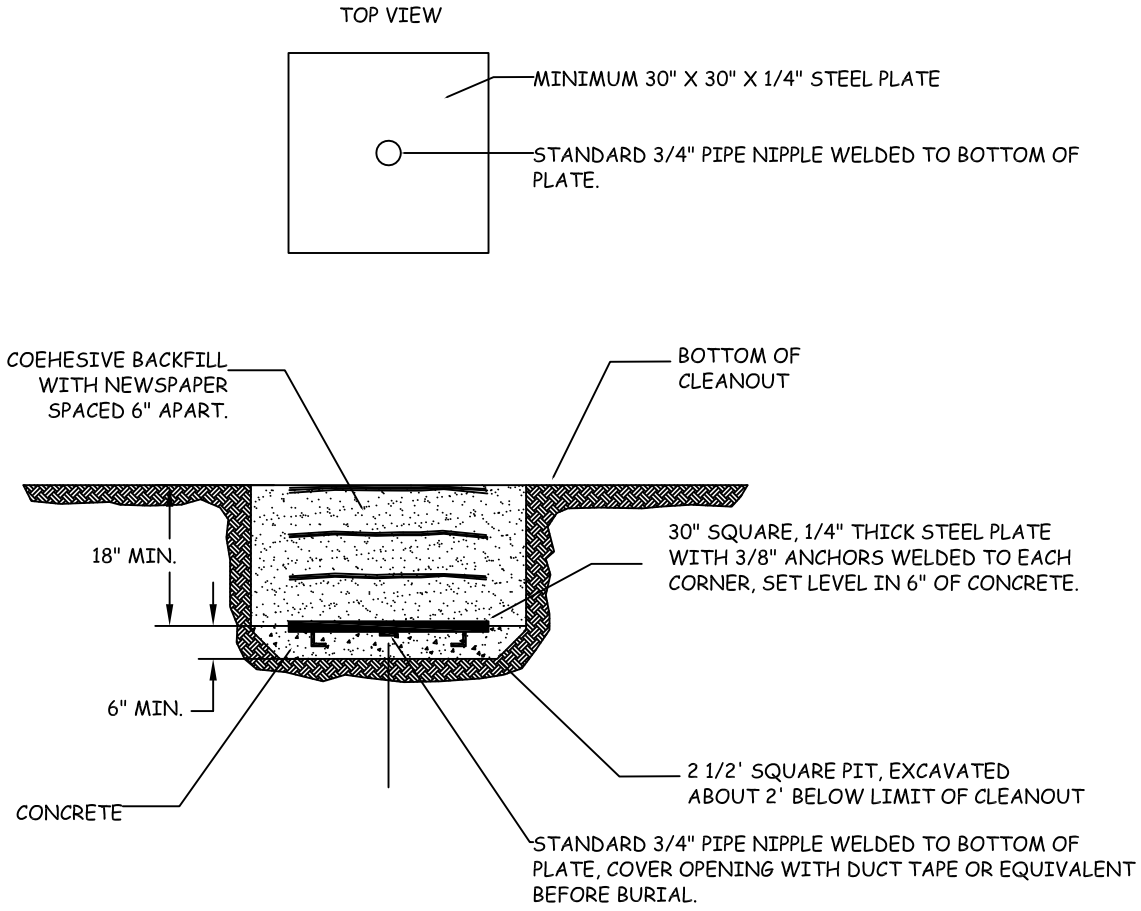
CANYON SUBDRAINS



NO CONSTRUCTION EQUIPMENT WITHIN 25 FEET
OF ANY INSTALLED SETTLEMENT MONUMENTS

LGC Geotechnical, Inc.

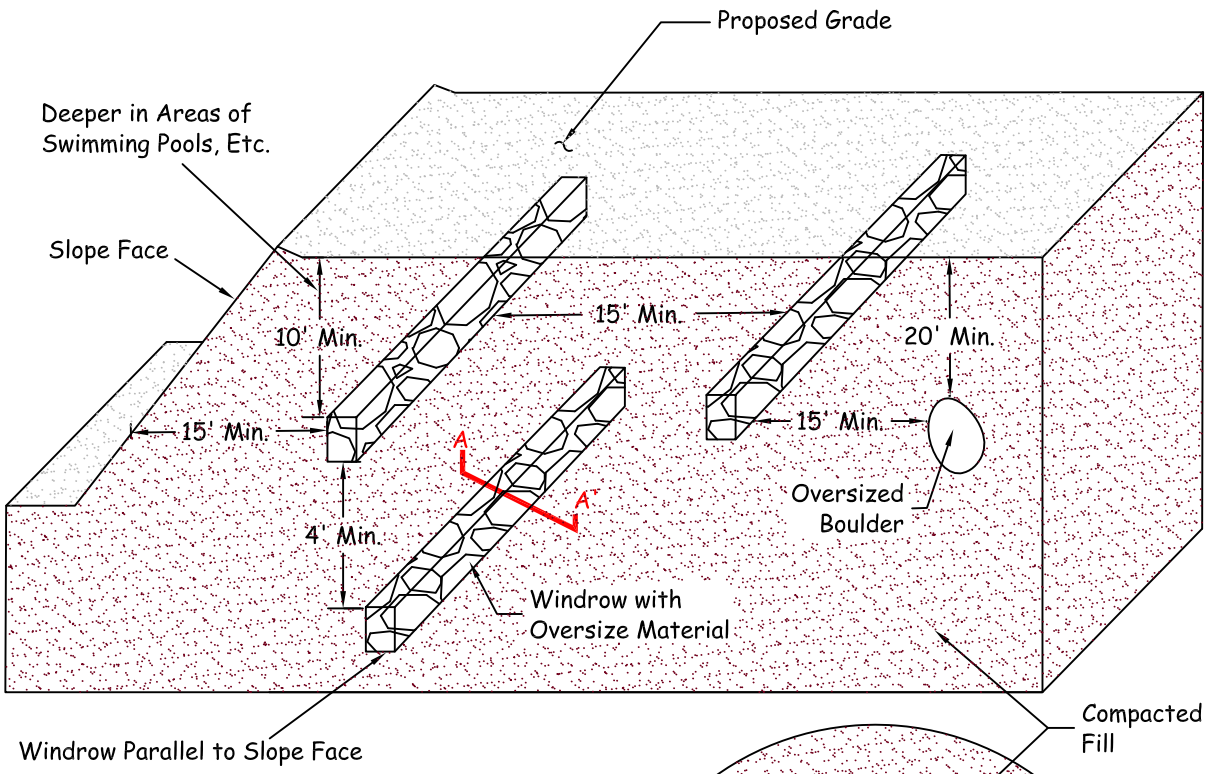
TYPICAL SURFACE SETTLEMENT MONUMENT

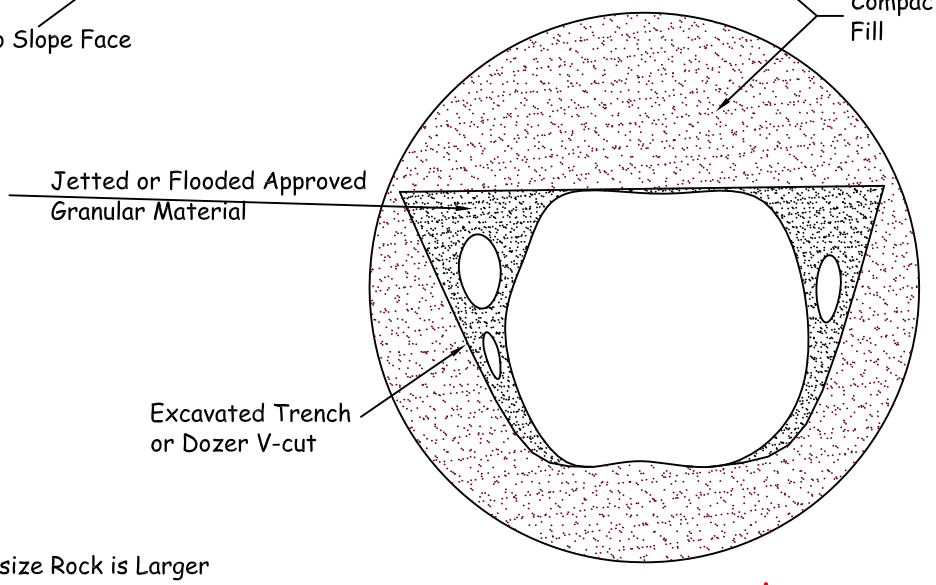


1. SURVEY FOR HORIZONTAL AND VERTICAL LOCATION TO NEAREST .01 INCH PRIOR TO BACKFILL USING KNOW LOCATIONS THAT WILL REMAIN INTACT DURING THE DURATION OF THE MONITORING PROGRAM. KNOW POINTS EXPLICITELY NOT ALLOWED ARE THOSE LOCATED ON FILL OR THAT WILL BE DESTROYED DURING GRADING.
2. IN THE EVENT OF DAMAGE TO SETTLEMENT PLATE DURING GRADING, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE GEOTECHNICAL ENGINEER AND SHALL BE RESPONSIBLE FOR RESTORING THE SETTLEMENT PLATES TO WORKING ORDER.
3. DRILL TO RECOVER AND ATTACH RISER PIPE.

LGC Geotechnical, Inc.

TYPICAL SETTLEMENT PLATE AND RISER





Note: Oversize Rock is Larger
than 8" in Maximum Dimension.

Section A-A'

LGC Geotechnical, Inc.

OVERSIZE ROCK DISPOSAL DETAIL

Attachment G
HCOC

Stormwater Facility Mapping Tool - v2.2

Feedback Form Tester Feedback

5TH ST AND PALM AVE, H

Show search results for 5TH ST...

PROJECT SITE

Legend

County Boundaries

Drainage Facilities

- EHM
- Non-EHM (Low)
- Non-EHM (Medium)
- Non-EHM (High)
- Non-EHM (default-high)

Water Bodies

- 303D Water Body
- TMDL Water Body

HCOC Exempt Areas (Original)

City Storm Drain

0.6mi

loading...

Attachment H
Phase 1 ESA (electronic)

PHASE I ENVIRONMENTAL SITE ASSESSMENT

27124-27280 MEINES STREET
HIGHLAND, CALIFORNIA

On Behalf Of:
Lovett Industrial, LLC

Prepared By:
Ramboll US Consulting, Inc.
Los Angeles, California

Date Issued:
May 2022

Project Number:
1690026564

RAMBOLL

ENVIRONMENT
& HEALTH

SIGNATURE AND ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

_____

Amy Manion, PG, CHG
Senior Managing Consultant

_____

John M. Pekala, PG
Principal

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FIGURES

Figure 1: Site Location
Figure 2: Site Layout
Figure 3: Tax Parcels

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1. SUMMARY OF CONCLUSIONS

Ramboll US Consulting, Inc. (Ramboll) was retained by Lovett Industrial, LLC to perform a Phase I Environmental Site Assessment (ESA) of the site located northwest of the intersection of Palm Avenue and Meines Street in Highland, California (herein referred to as the "site"; see Figures 1, 2, and 3). Ramboll's assessment was conducted in connection with a potential purchase of the site.

The objective of the Phase I ESA, which was conducted in conformance with the scope and limitations of ASTM International's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* E1527-21[1] (the "ASTM Standard"), was to identify Recognized Environmental Conditions (RECs), as defined in the ASTM Standard (see Section 8).

The scope of work for the Phase I ESA was expanded to include an evaluation of certain additional considerations that are not included within the ASTM Standard,[2] as noted in Section 2.1 of this report.

1.1 Site Summary

The site is approximately 13.7-acres and located at 27124-27280 Meines Street in Highland, California. The site is located in San Bernardino County approximately 66 miles east of downtown Los Angeles. The site is composed of 15 tax parcels owned by eight different entities and occupied by five different parties.

- Ten parcels (1192-601-05, 1192-601-43, 1192-601-09, 1192-621-05, 1192-621-06, 1192-621-07, 1192-621-08, 1192-621-21, 1192-621-22, and 1192-621-23) are occupied by KCB Towers Inc and are developed with an approximately 22,500-square-foot warehouse, which is located in the eastern portion of the lot. The warehouse building includes a two-story office space in the southeast corner and a single-story warehouse space used for steel cutting and welding in the remainder of the building. Other smaller structures on the site include a second smaller approximately 5,150-square-foot warehouse on the western portion of the site used for the owner's personal storage, two small residential buildings on the western portion of the site, one metal container used as a contained fuel station on the western portion of the site, a vehicle and machine maintenance shop on the northern portion of the site, and approximately 10 metal storage containers throughout the site.
- Two parcels (1192-621-02 and 1192-621-20) are occupied by Mazzulla Offroad and are developed with an approximately 3,200-square-foot building, which is located in the southwest portion of the lot. The single-story building includes a manufacturing space with metal cutting and welding machinery and a small office space. Other smaller structures on the site include metal containers, owned by Mazzulla Offroad and third parties, that are used for miscellaneous storage, including scrap metal, furniture, construction supplies, and truck parts.
- One parcel (1192-621-03) is owned by Robert Forshay and is not currently occupied. Two residential buildings, approximately 520 square-feet and 220 square-feet, are located on the southeast portion of the lot. The buildings were used as personal residences from approximately the 1930s to the 1980s and have been vacant since the 1980s.
- One parcel (1192-621-04) is occupied by Ransom (Randy) and Sandy Tirb and is developed with an approximately 1,568-square-foot residential building, which is located in the southern portion of the lot. The single-story building is used as a personal residence for the parcel owners. Other

[1] While this report was prepared to meet the 2021 ASTM Standard, it also meets the requirements of the 2013 ASTM Standard.

[2] The ASTM Standard refers to these areas as "non-scope considerations."

smaller structures on the site include a personal swimming pool and four small structures on the northern portion of the lot that are used as personal storage.

- One parcel (1192-621-09) is occupied by the Filipino Association of San Bernardino County and is developed with an approximately 4,275-square-foot building in the center of the lot. The building is used as an event space and gathering center for the association.

The site was undeveloped land until residences were constructed on the site from approximately 1930 to 1960. In the 1960s, some portions of the site began to be developed for industrial use while other portions of the site remained residential. Notable site occupants include the Bogh family, who started their steel cutting and welding business around 1982 and the Mazzulla family, who started their grading operations on the site around 1983.

1.2 Phase I ESA Conclusions

1.2.1 Recognized Environmental Conditions

Ramboll performed a Phase I ESA of the site in conformance with the scope and limitations of the ASTM Standard. Any exceptions to, or deletions from, this practice are described in Section 7.2 of this report. This assessment has identified no RECs in connection with the site.

1.2.2 Other Findings

Although not considered to be RECs or CRECs, Ramboll identified the following other findings, which represents a contingent risk not clearly defined by the ASTM Standard:

- **Past Light Industrial Operations at the Site.** Metalworking operations by KCB Towers Inc began at the site around 1982 and has continued to the present. There is no readily available information as to the specific use of chemicals in the past, but there is no indication that these operations were chemically intensive or involved the use of significant amounts of petroleum products or other hazardous substances. Because of the nature of the operations, it is possible that the use of the site for metalworking operations involved the use of chlorinated solvents. The site is not listed on any environmental databases indicative of a release or of hazardous waste generation. Also, Ramboll notes that these operations were conducted during a time period when robust environmental regulations were in the process of being put in place regarding chemical handling and waste management. While it is possible that small-scale spills or releases of chemicals or petroleum products may have occurred in the past, Ramboll identified no specific contamination concerns (e.g., obvious evidence of contamination, former underground storage tanks, listings indicating past chlorinated solvent use in significant quantities, known releases), and thus this matter is not considered a REC.
- **Presence of Floor Drains and Below-Grade Grease Pits.** Two areas with floor drains and below-grade grease pits are located on the KCB Towers lot, one adjacent to the vehicle and equipment maintenance area on the northern portion of the lot and one adjacent to the refueling station on the southwest corner of the lot. The drains are used to collect and the grease pits are used to contain any fluid containing petroleum products or chemicals from each area. The pits (1,000-gallon capacity) are constructed of concrete and are pumped out for cleaning on a routine basis by a third-party. Ramboll could not evaluate the integrity of the pits at the time of the site visit and cannot rule out the possibility of leakage from the pits and contamination to the subsurface. Site representatives indicated that no breaches in the pit have been discovered during the cleanings, which include a visual inspection, and no spills or leaks have occurred. Because Ramboll's review did not identify documentation of a release, a suspected release, or a potentially material threat of a release of a hazardous substance or petroleum product related to this matter, it is not considered a REC.

- **Staining on Unpaved Ground.** Ramboll observed multiple areas of darkened staining from unknown substances on unpaved surface on parcel 1192-621-20 owned by Mark Mazzulla, in areas associated with vehicle storage, minor auto repair operations, and around drums of hazardous substances. Portions of the stains were covered, obscuring visibility, but the largest staining was approximately three feet by five feet in area. While the nature of the stain was not clear, the use of the lot is related to vehicle storage and vehicle maintenance has occurred on the lot. However, Ramboll considers this minor staining matter unlikely to be the subject of additional investigation if brought to the attention of a regulatory authority and considers this matter to represent an Other Finding.

Additional findings of Ramboll's Phase I ESA that are not considered RECs or CRECs, *de minimis* conditions, are discussed in Section 7 of this report.

1.3 Additional Considerations

Ramboll conducted a screening-level review of certain additional considerations that are not considered part of the ASTM Standard, as discussed in Section 5.3. Ramboll did not identify any concerns relating to wetlands, flood plains, and radon.

2. INTRODUCTION

2.1 Scope of Work

Ramboll conducted a Phase I ESA of the site, which relied upon the sources of information noted below. The date on which the information was obtained/reviewed is also indicated in the table below.

Table 1: Sources of Information Relied on for the Phase I ESA

Resource	Description	Date
Site Reconnaissance		
Site visit	Ramboll representative: Kelly Chen (photographs from the site visit are provided in Appendix A)	May 2, 2022 and May 16, 2022
Interviews		
Site Representatives[1] (year first associated with the site)	Chris Mazzulla, Manager of Mazzulla Offroad (1999) Greg Bogh, Manager of KCB Towers Inc (1989) Tyler Plata, Industrial Real Estate Associate of Lee & Associates (2019)	May 2, 2022 and May 16, 2022
Site Owner Representative	Randy Tirb, site owner (parcel 1192-621-04) since 2001	May 2, 2022
Records Review		
Environmental Database Search[2]	Environmental Data Resources, Inc (EDR) database report (Appendix B)	April 28, 2022
Federal and State Governmental Online Resources	USEPA Envirofacts and Enforcement and Compliance History Online (ECHO) databases California State Water Resources Control Board (SWRCB) GeoTracker database Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's EnviroStor (EnviroStor) database California Geologic Energy Management Division (CalGEM) website U.S. Air Force Civil Engineering Center Administrative Records website	April 28, 2022
Local Agency Records	San Bernardino County Fire Department, City of Highland Fire Department, and City of Highland Building Department.	May 6 and 9, 2022
Historical Sources	Aerial photographs, topographic maps, city directory listings, Sanborn maps (as available), obtained from EDR (Appendix C).	April 28, 2022

Table 1: Sources of Information Relied on for the Phase I ESA		
Resource	**Description**	**Date**
Physical Setting Sources	Current USGS 7.5-minute topographic map for the site and surrounding area. Geologic, hydrogeologic, and hydrologic information provided in the EDR report.	April 28, 2022
User-provided Information		
User-provided Information	Information provided by the user of this assessment, including responses to a user questionnaire (Appendix D) consistent with Appendix X3 of the ASTM Standard and other information identified in Section 10.8 and 10.9 of the ASTM Standard.	May 18, 2022
Notes: [1] - The site representatives interviewed by Ramboll were identified by the owners as having good knowledge of the uses, physical characteristics, and operations of the site (i.e., "key site manager" as defined by the ASTM Standard). [2] - The radius searched for each database, as well as the databases themselves, were selected in accordance with the ASTM Standard.		

This Phase I ESA was conducted in accordance with the methodology specified in the ASTM Standard, as agreed upon by Ramboll and its client in the proposal for this assignment.

The scope of work for this assignment was expanded to include an evaluation of certain additional considerations that are not included in the ASTM Standard, which included a screening-level review of wetlands, flood plains, and radon. The review of additional considerations was conducted based on available information and documentation; no samples of any media were collected as part of this assignment unless explicitly stated otherwise. Any other areas referred to as non-scope considerations by the ASTM Standard not listed above were outside the scope of this assessment.[3]

2.2 Significant Assumptions

In conducting this review, Ramboll made no significant assumptions, except for the following:

- Site-specific field measurements or other detailed hydrogeological information for the site were not publicly available or reasonably ascertainable. In the absence of such data, Ramboll has assumed that the flow direction of shallow groundwater beneath the site and in the local vicinity generally mimics surface topography and is affected by nearby surface water bodies. Therefore, in evaluating potential on-site impacts from off-site sources, those off-site facilities not located adjacent to or upgradient of the site are not considered to represent a significant contamination concern to the site. This interpretation is based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within the unsaturated soil for a significant distance, although a hazardous material can migrate in the groundwater in a generally downgradient direction.

[3] The ASTM Standard considers per-/polyfluoroalkyl substances (PFAS) and other emerging contaminants as non-scope considerations; however, for the purposes of this assessment, Ramboll considered PFAS within the context of the Phase I ESA.

2.3 Reliance and General Limitations

This report has been prepared for the exclusive use of Lovett Industrial, LLC and may not be relied upon by any other person or entity without Ramboll's prior express written permission. Reliance on Ramboll's report may be granted through the issuance of a separate reliance letter. If granted, and unless otherwise specified in writing, Ramboll's total aggregate exposure and liability in connection with the Report to Lovett Industrial, LLC and any third party to which reliance has been issued shall not exceed the limits of liability established in the contract between Ramboll and its client for this assignment.

This report is considered current only for a period of 180 days from the site inspection (or the earliest date identified in the table above). The conclusions presented in this report represent Ramboll's professional judgment based upon the information available and conditions existing as of the date of this report. In performing its assignment, Ramboll must rely upon publicly available information, information provided by the client, and information provided by third parties. Accordingly, the conclusions in this report are valid only to the extent that the information provided to Ramboll was accurate and complete. This review is not intended as legal advice, nor is it an exhaustive review of site conditions. Ramboll makes no representations or warranties, expressed or implied, about the conditions of the site.

Ramboll's scope of work for this assignment did not include collecting samples of any environmental media. As such, this review cannot rule out the existence of latent conditions including contamination not identified and defined by the data and information available for Ramboll's review; however, this report is intended, consistent with normal standards of practice and care, to assist the client in identifying the risks of such latent conditions.

3. SITE DESCRIPTION

3.1 Site Setting

The site is an approximately 13.7-acre site located at 27124-27280 Meines Street in Highland, California. The site is in San Bernardino County and is located approximately 66 miles east of downtown Los Angeles (Figure 1).

The site is composed of 15 tax parcels owned by eight different entities and occupied by five different parties (see Figures 2 and 3):

- Ten parcels (1192-601-05, 1192-601-43, 1192-601-09, 1192-621-05, 1192-621-06, 1192-621-07, 1192-621-08, 1192-621-21, 1192-621-22, and 1192-621-23) are occupied by KCB Towers Inc and are developed with an approximately 22,500-square-foot warehouse, which is located in the eastern portion of the lot. The warehouse building includes a two-story office space in the southeast corner and a single-story warehouse space used for steel cutting and welding in the remainder of the building. Other smaller structures on the site include a second smaller approximately 5,150-square-foot warehouse on the western portion of the site used for the owner's personal storage, two small residential buildings on the western portion of the site, one metal container used as a contained fuel station on the western portion of the site, a vehicle and machine maintenance shop on the northern portion of the site, and approximately 10 metal storage containers throughout the site.
- Two parcels (1192-621-02 and 1192-621-20) are occupied by Mazzulla Offroad and are developed with an approximately 3,200-square-foot building, which is located in the southwest portion of the lot. The single-story building includes a manufacturing space with metal cutting and welding machinery and a small office space. Other smaller structures on the site include metal containers, owned by Mazzulla Offroad and third parties, that are used for miscellaneous storage, including scrap metal, furniture, construction supplies, and truck parts.
- One parcel (1192-621-03) is owned by Robert Forshay and is not currently occupied. Two residential buildings, approximately 520 square-feet and 220 square-feet, are located on the southeast portion of the lot. The buildings were used as personal residences from approximately the 1930s to the 1980s and have been vacant since the 1980s.
- One parcel (1192-621-04) is occupied by Ransom (Randy) and Sandy Tirb and is developed with an approximately 1,568-square-foot residential building, which is located in the southern portion of the lot. The single-story building is used as a personal residence for the parcel owners. Other smaller structures on the site include a personal swimming pool and four small structures on the northern portion of the lot that are used as personal storage.
- One parcel (1192-621-09) is occupied by the Filipino Association of San Bernardino County and is developed with an approximately 4,275-square-foot building in the center of the lot. The building is used as an event space and gathering center for the association.

There are multiple site access points along Meines Street at the southern site boundary and one site access at the northeast corner of the site along Palm Avenue.

The following table provides an overview of physical setting and utility information for the site.

Table 2: Physical Setting Information	
Conditions	**Description**
Site Information	
Ownership	Bogh Family Trust (1192-601-05, 1192-601-43, 1192-621-21, 1192-621-22, and 1192-621-23), Lynn Bogh (1192-621-05), KCB Towers Inc (1192-601-09, 1192-621-07, and 1192-621-08), Mark J Mazzulla (1192-621-02 and 1192-621-20), Robert Forshay (1192-621-03), Ransom Tirb (1192-621-04), Raymond C. T.R. Ramirez (1192-621-06), and Filipino Association of San Bernardino County (1192-621-09)
Size	Approximately 13.7 acres
Property Tax ID	APNs: 1192-601-05, 1192-601-09, 1192-601-43, 1192-621-02, 1192-621-03, 1192-621-04, 1192-621-05, 1192-621-06, 1192-621-07, 1192-621-08, 1192-621-09, 1192-621-20, 1192-621-21, 1192-621-22, and 1192-621-23.
Topography and Hydrology	
Topography	Site: Generally flat Region: Regionally, the ground slopes downward to the west
Nearest Surface Water Body to the Site	On-site: There is one approximately 500-square-foot personal swimming pool on parcel 1192-621-04. Off-site: City Creek, a tributary of the Santa Ana River, adjacent to the north.
Geology and Hydrogeology	
Presumed Direction of Shallow Groundwater Flow[1]	According to the *"Operations, Maintenance, and Monitoring 2017 Annual Report"* prepared for the former Norton Air Force Base located 0.18 miles to the southwest, groundwater in the vicinity of the site flows to the southwest. Based on the topographic gradient of the site and the flow of the City Creek to the southwest, shallow groundwater at the site likely flows to the southwest.
Depth to Groundwater	Depth to groundwater information for the site was not readily available. Groundwater at the former Norton Air Force Base located 0.18 miles to the southwest of the site was encountered at 185.7 to 188.4 feet below ground surface (bgs) during the January 2019 monitoring event according to the *"IRP Site 2 Landfill OMM 2019 Annual Report – Final".*
Nearby Groundwater Supply Wells	According to well database information provided in the EDR report, one federally registered well is present on site and 26 state and federally registered wells are present within one-quarter mile of the site; none are identified as a public supply well.
Geologic Conditions	Regional soils are well drained to excessively drained gravelly loamy sands with moderate to high infiltration rates.

Table 2: Physical Setting Information	
Conditions	**Description**
Notes: Information in this table was obtained through visual observations during the site visit; a review of USGS topographic maps, Google Earth imagery, information contained in the database search report, prior environmental assessment reports (if available), and local agency sources (noted in Chapter 2), and information provided by site representatives. [1] - In the absence of on-site measurements of groundwater flow direction, presumed direction of groundwater flow is based on local/regional topography and the location and direction of flow of nearby surface water bodies.	

3.2 Current Use of the Site

Parcel 1192-621-04 is currently used by Ransom (Randy) Tirb as a residential lot, which includes a residential home on the southern portion of the lot, a personal pool, and four storage structures on the northern portion of the lot. Operations on the lot do not involve any manufacturing or fabrication activities. The tenant conducts vehicle maintenance and upkeep on the lot as a personal activity. The storage structures on the northern portion of the lot contain vehicles, vehicle parts, and maintenance materials. Maintenance-related chemicals and janitorial supplies, including lubricants, antifreeze, coolant, and paint, are used in small quantities (containers of five gallons and smaller). Site representatives knew of no use of chlorinated solvents or polyfluoroalkyl substances (PFAS) at the site, and the use of such chemicals is considered unlikely based on the nature of site uses.

Parcel 1192-621-03 is currently owned by Robert Forshay and is vacant. Structures on the site include two small, residential buildings that have been vacant since the 1980s. Operations on the site do not involve the storage of any raw materials and do not involve any manufacturing or fabrication activities. Site representatives knew of no use of chlorinated solvents or polyfluoroalkyl substances (PFAS) at the site, and the use of such chemicals is considered unlikely based on the nature of site uses.

Parcel 1192-621-09 is currently used by the Filipino Association of San Bernardino County as an event space, which involves the gathering of people at the site. Operations on the site do not involve the storage any raw materials and do not involve any manufacturing or fabrication activities. Site representatives knew of no use of chlorinated solvents or polyfluoroalkyl substances (PFAS) at the site, and the use of such chemicals is considered unlikely based on the nature of site uses.

The parcels 1192-621-02 and 1192-621-20 are currently used by Mazzulla Offroad for metal auto parts manufacturing, truck parking, and storage. The major operations conducted at the site are described below:

- *Metal Manufacturing* – Mazzulla Offroad performs minor metal-working operations in the warehouse on the southern portion of the lot to manufacture off-road truck products, including control arms, skid plates, bumpers, and hubs. The manufacturing process includes cutting machines and turning machines.
- *Third-party Storage* – The site owner rents out space to third parties that store trucks, vehicles, and miscellaneous materials on the site. Notable items stored at the site include containers of scrap metal, stucco material, and drums of oil.
- *Ancillary Operations* – Mazzulla Offroad also performs packaging, shipping and administrative operations, none of which involve the use of significant quantities of chemicals. In addition, Mazzulla Offroad conducts the following activities in support of the major operations:

  - General building and machinery/equipment maintenance, which includes replacing the coolant and small parts.
  - Transfer of raw materials and finished products using one propane-powered forklift; the unit is serviced on-site by outside contractors.

The primary raw materials used at the site include metal, oil, coolant, and propane. In addition, the Mazzulla Offroad uses maintenance-related materials, such as lubricants, greases, and welding gases. According to site representatives, no chlorinated solvents or PFAS are currently used at the site. However, because of the history of metalworking at the site and the lack of information about historical chemical use, it is possible that chlorinated solvents have been used at the site. This matter is further discussed in Section 6.

The parcels 1192-601-05, 1192-601-43, 1192-601-09, 1192-621-05, 1192-621-06, 1192-621-07, 1192-621-08, 1192-621-21, 1192-621-22, and 1192-621-23 are currently used by KCB Towers Inc for steel product manufacturing and distribution. The major operations conducted at the site are described below:

- *Receiving* – Raw, unfinished steel is received from the site entrance at the northeast corner of the lot. The raw steel is stored on the exterior gravel on the western portion of the site until it is ready to be processed.
- *Metalworking* – Metalworking, including cutting, drilling, and welding, is performed on the raw steel in the warehouse on the eastern portion of the lot.
- *Finishing* – If needed, the steel pieces are painted in a concrete-paved area surrounded by a berm on the northeast corner of the lot.
- *Vehicle Refueling* – Vehicles and heavy machinery are refueled with diesel fuel at the contained fueling station at the southwest corner of the lot.
- *Personal Storage* – The owner and employees of KCB Towers Inc store personal belongings, including furniture, teaching supplies, and ATVs in metal storage containers and the small warehouse and residential buildings on the western portion of the site.
- *Ancillary Operations* – KCB Towers Inc also performs shipping and administrative operations, none of which involve the use of significant quantities of chemicals. In addition, KCB Towers Inc conducts the following activities in support of the major operations:
  - General building and machinery/equipment maintenance, including parts changing, fluid changes, and vehicle repair.
  - Operation of one parts washer unit, containing a petroleum-based degreaser, in the maintenance area.
  - Transfer of raw materials and finished products using two propane-powered forklifts and approximately six diesel-fueled heavy machinery; the units are serviced on-site by outside contractors.

The primary raw materials used at the site include steel, diesel fuel, and compressed gases. In addition, KCB Towers Inc uses maintenance-related materials, such as fuels, oils, lubricants, coolant, antifreeze, greases, non-chlorinated degreasers, welding gases, and detergents. According to site representatives, no chlorinated solvents or PFAS are currently used at the site. However, because of the history of metalworking at the site and the lack of information about historical chemical use, it is possible that chlorinated solvents have been used at the site. This matter is further discussed in Section 6.

4. RECORDS REVIEW

4.1 Historical Site Use and Local Agency Information

The site was undeveloped land until residences were constructed on the site from approximately 1930 to 1960. In the 1960s, some portions of the site began to be developed for industrial use while other portions of the site remained residential. Notable site occupants include the Bogh family, who started their steel cutting and welding business around 1982 and the Mazzulla family, who started their grading operations on the site around 1983.

Based on Ramboll's review of the past uses of the site, it is possible that former use of the site for metalworking operations involved the use of chlorinated solvents; Ramboll considers the historical use of PFAS at the site to be unlikely.

The following table provides a summary of key information obtained by Ramboll from a review of available historical resources and information obtained from local governmental agencies and regulatory bodies.

Table 3: Summary of Historical Resources and Local Agency Information for the Site

Historical Resource	Key Observations Regarding Site History
Historical Resources	
Aerial Photographs (1930, 1938, 1949, 1953, 1959, 1966, 1968, 1975, 1985, 1989, 1994, 2002, 2006, 2009, 2012, and 2016) Satellite Imagery [1] (1985 to 2021)	1930 – 1938: The site is mostly undeveloped, vacant land with one small residential structure on the southeast corner of the site (lot 1192-621-22). 1949 – 1953: Two more residential structures appear along the southern boundary of the site (lots 1192-621-05 and 1192-621-03). Each residential structure has associated smaller structures (about three) around them. 1959: All previous structures remain the same. A small residential structure is present on the northwest corner of the site (lot 1192-621-07). 1966: All previous structures remain the same. A small warehouse-like structure is located on the western portion of the site (lot 1192-621-09). 1968 – 1975: All previous structures remain the same. One larger warehouse structure is added to lot 1192-621-09. One lot on the eastern portion of the site (lot 1192-621-21) is developed for industrial purposes with two warehouse buildings and vehicle parking. 1985: All previous structures remain the same. One lot in the center (current parcel 1192-621-04) appears to be developed for residential purposes with a residential structure and storage on the northern portion of the lot. 1989 – 1994: All previous structures remain the same. Two lots on the eastern portion of the site (1192-621-02 and 1192-621-20) are now developed for industrial use with one warehouse structure on the southwest corner of lot 1192-621-02. One large warehouse structure has been constructed in the center of lot 1192-621-21 on the eastern portion of the site. 2002: All previous structures remain the same, except for the warehouse on lot 1192-621-02 which has been extended to the north. A large portion of the northern and western sites (lots 1192-601-05, 1192-601-43, 1192-601-09, 1192-621-08, 1192-621-07) are developed for industrial use. 2006 – 2012: All previous structures remain the same. Lot 1192-621-06 has been developed for light industrial use and appears to be used as storage. 2016 – 2021: All previous structures remain the same.

Table 3: Summary of Historical Resources and Local Agency Information for the Site	
Historical Resource	**Key Observations Regarding Site History**
Topographic Maps (1899 to 2018)	1899 – 1901: No development depicted. 1953 – 1954: Three small structures are depicted along the southern boundary of the site. 1967 – 1988: One of the structures along the southern boundary has been removed. Two additional structures are depicted on the western portion of the site. 2012 – 2018: No development depicted.
City Directory Abstracts (1971, 1976, 1980, 1986, 1992, 1995, 2000, 2005, 2010, 2014, and 2017)	Prior uses and occupants of the site are listed as: 27124 Meines Street: Philipino Association San Bernardino (1971-2010) 27184 Meines Street: Aron Pruett Sr. (1971-1986), Ed Kruse (1992), and Oscar Uribe (2005) 27200 Meines Street: Marvin Peek (1980-1986), Pride Utilities (1992-1995) and Ransom Tirb (2005-2017) 27220 Meines Street: Salvador L Yepez (1980) and Gonzalo Uribe (1986) 27232 Meines Street: Mazzulla Offroad and Mazzulla Grading (2010) 27260 Meines Street: Mark J Mazzulla Grading Company (1986-2000), Highland Crane (1992-2000), Highlander Group (2005), and KCB Towers Inc (1995-2017) 27280 Meines Street: S P Manning Tree Service (1971-1980), Simon P Manning (1971-1986) and Lynn Bogh (2005-2014)
Local Agency Information	
Tax assessor website	The site is composed of 15 tax parcels: 1192-601-05: Bogh Family Trust, site owner since 2008 1192-601-43: Bogh Family Trust, site owner since 2019 1192-601-09: KCB Towers Inc, site owner since 2017 1192-621-02: Mark J Mazzulla, site owner since 2013 1192-621-03: Robert Forshay, site owner since 1976 1192-621-04: Ransom Tirb, site owner since 2001 1192-621-05: Lynn Bogh, site owner since 2009 1192-621-06: Raymond Ramirez, site owner since 1997 1192-621-07: KCB Towers Inc, site owner since 2017 1192-621-08: KCB Towers Inc, site owner since 2017 1192-621-09: Filipino Association of San Bernardino County, site owner since 1963 1192-621-20: Mark J Mazzulla, site owner since 2013 1192-621-21: Bogh Family Trust, site owner since 2008 1192-621-22: Bogh Family Trust, site owner since 2008 1192-621-23: Bogh Family Trust, site owner since 2014

Table 3: Summary of Historical Resources and Local Agency Information for the Site	
Historical Resource	**Key Observations Regarding Site History**
San Bernardino County Fire Department	Ramboll requested records from the San Bernardino County Fire Department concerning the utilization, manufacture, storage, and discharge of hazardous materials and waste and any information concerning previous or on-going site investigations and remediation pertaining to hazardous materials and waste at the site. The San Bernardino County Fire Department informed Ramboll that the department only had records for 27232 and 27260 Meines Street. Records provided by the department include: • Special Generator and Special Handler permits for Ronald A. Dieffenbacher (27232 Meines Street) from 1997 to 2002. • Ronald A. Dieffenbacher (27232 Meines Street) was declared Out of Business in 2002. A hazardous waste generator and handler inspection was conducted, and one 300-gallon AST of waste oil was properly removed. • Limited Quantity Generator and Hazardous Material Handler 3-10 Employees permits for KCB Towers Inc (27260 Meines Street) from 1995 to 2016. • KCB Towers Inc (27260 Meines Street) submitted their Hazardous Materials Business Plan (HMBP) in 1996 and updated it in 1997, 2000, 2006, 2007, 2008, 2009, 2010, 2011, 2012, and 2013. • CUPA Compliance Inspection Report of KCB Towers Inc (27260 Meines Street) from 2000, 2005, 2011, 2014, 2017, and 2020. Violations included failure to obtain EPA ID, illegal disposal of hazardous waste due to an inactive EPA ID, improper labeling, improper management of hazardous waste, improper disposal of waste oil filters, and administrative violation. All violations have been returned to compliance.
City of Highland Fire Department	Ramboll requested records from the City of Highland Fire Department concerning the storage of hazardous materials and waste and underground storage tanks at the site. The City of Highland Fire Department informed Ramboll that they do not have records for the site and the lead agency for the site is the San Bernardino County Fire Department.
City of Highland Building Department	Ramboll requested records from the City of Highland Building Department concerning building permits and certificates of occupancy for the site. Records from the City of Highland Building Department include: • Electrical permits for address 27162 Meines Street, owned by Margaret and Miles Bogh, from 2008. • Building permits for address 27184 Meines Street, owned by E. W. Kruse, to add detached garage in 1988 and to build a carport in 1991. • Building permits for address 27184 Meines Street, owned by Clarene and Stanley Harris, to add two walls to an existing carport in 1998, to tear off and reroof the building in 2007, and to board up and remove utilities from the garage and metal building in 2008. • Building permit for address 27200 Meines Street, owned by Ransom and Sandra Tirb, to replace windows and doors in 2021. • Building permit for address 27232 Meines Street, owned by Mark Mazzulla, for electrical upgrades in 2020. • Certificate of occupancy for address 27260 Meines Street by IWA Engineers in 1996.

Table 3: Summary of Historical Resources and Local Agency Information for the Site	
Historical Resource	**Key Observations Regarding Site History**
	• Building permit for address 27260 Meines Street, owned by KCB Towers Inc, for electrical upgrades in 1996, to construct a garden wall in 2000, for a building extension in 2000, and for a new heating system in 2005. • Building permit for address 27280 Meines Street, owned by Bogh Family Trust, to build a fence in 2020.
Notes: [1] In addition to aerial photographs provided by the third-party provider, Ramboll viewed historical satellite imagery available on Google Earth. Printed copies were not obtained, and imagery dates were not independently verified. The third-party provider reported that Sanborn fire insurance map coverage is not available for the site.	

4.2 Environmental Regulatory Database Review for the Site

Ramboll reviewed the results of the state and federal environmental database searches performed by EDR (see Appendix B) and reviewed information available in California GeoTracker and EnviroStor. The site is listed on several environmental databases, as discussed in the table below.

Table 4: Summary of Environmental Database Listings for the Site	
Summary of Information Contained in Database	**Ramboll's Comments**
KCB Towers Inc (27260 Meines Street) is listed on the following databases: Resource Conservation and Recovery Act as a Non-generator or No Longer Regulated (RCRA NONGEN/NLR), Hazardous Waste Tracking System (HWTS), Facility and Manifest Data (HAZNET), California Environmental Reporting System (CERS), CERS Hazardous Waste (CERS HAZ WASTE), and the San Bernardino County Permit (SAN BERN. CO. PERMIT) for the generation of California-regulated hazardous materials. EPA IDs used in association with these listings include CAC002209065 (active from 2000 to 2001) and CAL000248885 (active from 2002 and is currently active). Hazardous wastes generated include unspecified solvent mixture, off-specification, aged, or surplus organics, unspecified oil-containing waste, unspecified organic liquid mixture, organic solids with halogens, and other organic solids. Violations included improper handling of wastes, improper labeling, and administrative violations. All violations have been returned to compliance in a timely manner. KCB Towers Inc is also listed on the Aboveground Storage Tank (AST) database for the presence of an on-site AST. The date of installation, contents, and size of the AST is not reported.	Listings related to hazardous waste generation and on-site ASTs, without indication of spills or releases, do not suggest a contamination concern to the site.

Table 4: Summary of Environmental Database Listings for the Site	
Summary of Information Contained in Database	**Ramboll's Comments**
Ron Dieffenbacher Equipment (27232 Meines Street) is listed on the HWTS and SAN BERN. CO. PERMIT databases for the generation of California-regulated hazardous materials. The EPA ID registered with this listing is CAC002557205 (active from 2002 to 2003). The type of wastes generated at the site are not reported and there are no violations reported.	Listings related to hazardous waste generation, without indication of spills or releases, do not suggest a contamination concern to the site.
Equipment Storage (27256 Meines Street) is listed on the HWTS for the generation of California-regulated hazardous materials. The EPA ID registered with this listing is CAL000250323 (active from 2002 to 2008). The type of wastes generated at the site are not reported and there are no violations reported.	Listings related to hazardous waste generation, without indication of spills or releases, do not suggest a contamination concern to the site.
Notes: The site is also listed on the following databases related to regulatory compliance: National Pollutant Discharge Elimination System (NPDES), California Integrated Water Quality System (CIWQS), Enforcement & Compliance History Information (ECHO), and Facility Index System/Facility Registration System (FINDS). Listings on these databases, by themselves, are not necessarily indicative of contamination.	

4.3 Previous Environmental Assessments and Activities

Based on a review of historical site documents and interviews with site representatives, no prior Phase I environmental assessments, UST closures, environmental sampling, or remediation activities are known to have been conducted at the site.

4.4 User-Provided Information

Ramboll provided Lovett Industrial, LLC with a User Questionnaire (consistent with Appendix X3 of the ASTM Standard) that requested information relating to environmental liens, activity use limitations (AULs), specialized knowledge of the site, property value diminution, chain-of-title, and any other commonly known or obvious indications of site contamination, as well as information on any proceedings involving the site (as noted in Section 10.9 of the ASTM Standard) that was not otherwise provided to Ramboll (see Appendix D). The user did not provide any information that was not otherwise obtained and reviewed by Ramboll.

5. SITE OBSERVATIONS

5.1 Chemical and Petroleum Storage

5.1.1 Underground Storage Tanks (USTs)

According to site representatives, there are no current or former USTs at the site, and Ramboll identified no visual evidence of such (e.g., vent pipes, fill ports, or dispensing equipment) during the site visit or in the review of records pertaining to the site.

5.1.2 Aboveground Storage Tanks (ASTs)

Several ASTs are maintained at the site, as summarized in the table below. Site representatives knew of no leaks or spills relating to the tanks, and Ramboll did not observe evidence of staining or past releases at the time of the site visit. Site representatives indicated that there are no current or former underground transfer lines used to convey the materials from the tanks.

Table 6: Aboveground Storage Tanks and Bulk Containers

Location	# of tanks	Contents	Sizes	Observations
Northeast corner of parcel 1192-601-43	1	Propane gas	499 gallons	Tank is maintained within a secondary containment area constructed on concrete block. No evidence of spills or releases observed.
Oil reservoir in cutting machine on parcel 1192-621-02	1	Coolant	50 gallons	No secondary containment is provided but the cutting equipment is located indoors, and no evidence of significant spills or releases of oils was observed.
North side of parcel 1192-621-02	1	Propane gas	499 gallons	Tank is maintained within a secondary containment area constructed on concrete block. No evidence of spills or releases observed.
South side of parcel 1192-621-08	2	Diesel fuel	750 gallons	Tanks are maintained within a concrete area with a drain and containment pit. No evidence of spills or releases observed.

5.1.3 Other Chemical and Petroleum Containers

Chemical storage at the Mazzulla Offroad lot is limited to lubricating oils and coolant (stored in 5-gallon pails in the warehouse), welding gases (stored in cylinders in the warehouse), oil (owned by third parties and stored in 55-gallon drums on the exterior of the site), propane (stored in an AST), and janitorial and maintenance chemicals (stored in retail-sized containers of 5-gallons of less inside of the warehouse). Staining, the largest approximately three feet by five feet in surface area, was observed around the oil drums on the exterior gravel of the site. This matter is discussed further in Section 7.

Several dedicated drum and other storage areas for chemicals and petroleum products are maintained at the KCB Towers Inc facility:

- Lubricating oils and other petroleum products are stored in 55-gallon drums and 5-gallon pails in the maintenance area on the northern portion of the site. During the site visit, Ramboll observed 5 drums stored on wooden pallets and approximately 7 pails stored on pavement in this area.
- Small, retail-sized containers (5-gallons or less) of chemicals are stored on a shelf in the maintenance area on the northern portion of the site. Chemical stored in this area include paint thinner, paint, non-chlorinated solvents, engine oil, brake fluid, adhesives, detergents, and sanitizers.
- Empty drums and chemical storage containers are stored in the eastern maintenance area on the northern portion of the site. During the site visit, Ramboll observed approximately 15 empty drums and chemical storage containers stored on pavement.
- Tanks of compressed gasses and liquefied gasses, including oxygen, argon, nitrogen, and propane, of various sizes from are stored along the exterior of the eastern wall of the warehouse.

Site representatives knew of no significant spills or releases of materials at drum and container storage areas. While dedicated secondary containment was not provided for all of the drums and containers, Ramboll did not observe evidence of spills or uncontrolled releases from these storage areas, other than minor staining on the paved flooring of the maintenance area. Staining did not appear to extend to unpaved surfaces.

Chemical storage at the remainder of the site is limited to retail-sized containers (5-gallons or less) of maintenance and cleaning chemicals, including motor oil, lubricants, detergents, bleach, and sanitizers stored inside of the Filipino Association of San Bernardino County's building and inside of Randy Tirb's garage and warehouses. No evidence of releases was observed in these areas. Chemicals are not stored in exterior areas of the site.

5.2 Other Site Reconnaissance Observations

During the site visit, Ramboll made observations of interior and exterior portions of the site to look for and identify the features, activities, uses, and conditions specified in Section 9.4 of the ASTM Standard, as discussed in the table below.

Table 7: Site Reconnaissance Observations

Conditions	Description
Site Utilities and Equipment	
Heating and Cooling Equipment	The buildings are cooled with packaged electric air conditioning units.
Natural Gas Service	The site is provided with natural gas service.
Use of Fuel Oil for Building Heat	No current or known former use of fuel oil for building heat.
Foam-based Fire Suppression System	According to site representatives, the site is not equipped with a built-in foam-based fire suppression system.

Table 7: Site Reconnaissance Observations

Conditions	Description	
Water Supply and On-site Water Wells	The site receives drinking and process water from the East Valley Water District water system.	
PCB-containing Equipment	Site representatives were not aware of any on-site equipment that is known to contain PCBs. There are currently three pole-mounted transformers along the southern boundary of the site and one pad-mounted transformer located at the southwest corner of parcel 1192-621-21; the units are owned by Southern California Edison. The units are not labeled as to their PCB content. Because the units may have been installed before the 1979 federal ban on the manufacture of PCBs, it is possible that transformer oils contain PCBs. Because the buildings were constructed prior to the 1979 federal ban on the manufacture of PCBs, it is possible that hydraulic or other types of electrical equipment, such as capacitors, contain PCBs. Ramboll observed no evidence of leaks or releases from transformers or other hydraulic/electrical equipment during the site visit.	
Waste, Wastewater and Stormwater		
Waste	Hazardous and Universal	Hazardous wastes generated at the site, which include metal shavings and waste oil, are stored in 55-gallon drums inside of the Mazzulla Offroad warehouse and in the KCB Towers Inc maintenance area. Universal wastes, which include batteries and light bulbs, are stored inside the Mazzulla Offroad warehouse and the KCB Towers Inc office.
	Nonhazardous	Nonhazardous waste generated at the site includes general waste and recyclable waste and is stored on pavement in lidded dumpsters and trash bins along the southern site boundary and on pavement on the northeast corner of the site.
	Observations	Ramboll observed staining around the hazardous waste drums containing waste oil in the maintenance area of KCB Towers Inc. Staining was limited in size, on pavement, and did not extend to unpaved surfaces or stormwater drains.
Wastewater	Sanitary	Sanitary wastewater from the site is discharged to the municipal sanitary sewer system.
	Process	Operations at the site do not generate process wastewater.
	Septic Systems	Sanitary wastewater is discharged to a septic tank with associated leach field located at parcel 1192-621-02 owned by the Filipino Association of San Bernardino County.
	Observations	Ramboll observed no evidence a contamination concern associated with wastewater management at the site.
Stormwater	Management	Percolates into the ground surface at unpaved areas and enters catch basins that discharge to the municipal storm sewer system.

Table 7: Site Reconnaissance Observations		
Conditions	**Description**	
	Observations	Ramboll observed no evidence of a contamination concern associated with stormwater management at the site.
Other Interior and Exterior Observations		
Exterior Ponds, Pits, Lagoons and Standing Surface Water	Ramboll observed a personal swimming pool on parcel 1192-621-04, owned by Randy Tirb, but did not identify any evidence of spills or releases of chemicals or petroleum products to the pool.	
On-site Disposal or Fill Material	Ramboll observed a pile of soil and dirt on the southwest corner of the KBC Towers Inc lot. Facility personnel reported that the soil originated at the site and is the remnants of leveling activities at the site.	
Staining and Stressed Vegetation	Other than previously mentioned staining, Ramboll observed no evidence of additional staining or stressed vegetation at the site.	
Interior Drains, Sumps, Pits, and Trenches	Ramboll observed two areas with floor drains and below-ground, 1000-gallon grease pits adjacent to the vehicle and equipment maintenance area on the northern portion of the KCB Towers Inc lot and adjacent to the refueling station on the southwest corner of the KCB Towers Inc lot. The drains are used to collect and the grease pits are used to contain releases of oils, oily water, and any fluid from the maintenance and refueling areas. According to a site representative, these pits are constructed of concrete, do not have outlets, and are routinely serviced by a third party if liquid accumulates. The interiors of the drains and pits could not be observed during the site visit. No staining on the concrete or other evidence of releases to the drains and grease pits were observed during the site visit. The drains and grease pits are further discussed in Section 7.1.	
Odors	At the time of the site visit, Ramboll did not note strong odors in interior or exterior areas at the site.	

5.3 Additional Considerations

Ramboll's scope of work also included a review of certain additional considerations that are not included within the scope of the ASTM Standard (i.e., "ASTM non-scope considerations"). A summary of Ramboll's findings for these additional considerations is provided in the table below.

Table 8: Review of Additional Considerations		
Consideration	**Site Visit Information and Observations**	**Comments/Findings**
Flood Plains	Site representatives reported no known occurrences of flooding at the site. The site is not located within a 500-year flood zone.	No issues identified
Wetlands	According to the wetlands information provided by the National Wetland Inventory (NWI) (as obtained	No issues identified

Table 8: Review of Additional Considerations

Consideration	Site Visit Information and Observations	Comments/Findings
	from the EDR database report), there are no on-site federally designated wetlands.	
Radon	According to site representatives, no radon surveys have been completed at the site. According to the USEPA's radon zone information for the site (as obtained from the EDR database report), the site is located in an area categorized as Zone 2, which has average indoor basement radon levels from 2 to 4 picoCuries per Liter (pCi/L). California tested radon levels at 21 properties in the zip code in which the site is located (i.e., 92346), and found that none of the sites surveyed found radon levels greater than 4 pCi/L and the maximum result for all sites surveyed was 2 pCi/L.	The USEPA's continuous exposure limit for radon, which is the limit at which further testing or remedial action is suggested, is 4.0 pCi/L. This USEPA continuous exposure limit applies to residential, not commercial, properties. The risk of exposure to radon is limited by the fact that, according to California's radon test results, no sites within the zip code have exceeded 2 pCi/L.

Notes:

Ramboll did not conduct a comprehensive survey for any of the issues noted above. Furthermore, Ramboll's observations were inherently limited and included only non-exhaustive visual observations.

6. SURROUNDING PROPERTIES

The ASTM Phase I Standard requires an evaluation of the potential for migration of contamination onto the site from adjoining and other off-site properties. Ramboll's review of potential contamination risks posed by properties surrounding the site is presented below.

6.1 Current and Past Uses of Adjoining Properties and Surrounding Area

The site is located in a mixed industrial, commercial, and residential land use area, as summarized below. The nearest residence to the site is located adjacent to the site to the south.

The properties in the vicinity of the site have primarily been used for agricultural purposes (north, east, south, and west) since as early as the 1960s, with a few residences along Pomfret Road to the north and south. Ramboll did not observe obvious indications of environmental concern on the historical sources reviewed.

Table 9: Current and Past Uses of Adjoining Properties

Uses of Adjoining and Nearby Properties	Notable Past Uses and Approximate Time Period	Observations and Notes
North		
City Creek, a tributary of the Santa Ana River. Residential homes and vacant lots are present beyond the creek.	Undeveloped land (<1960) Residential (1966 – Present)	Ramboll did not observe conditions on or identify past uses of adjacent properties that represent a potential contamination concern to the site.
East		
Palm Avenue, beyond which is H & H General Contractors Inc, MEI Electrical Construction, KCB Offroad auto parts manufacturer, and vacant lots.	Undeveloped land (<1975) Small commercial/industrial buildings (1985 – Present)	H & H General Contractors is listed on databases related to generation of hazardous waste and ASTs and is further discussed in Section 6.2.1.
South		
Farmer Boys restaurant, vacant lots, Cool Distribution merchandise liquidator, and residential homes.	Undeveloped land (<1938) Residential homes (1949 – 1975) Residential home and small commercial buildings (1985 – Present)	Ramboll did not observe conditions on or identify past uses of adjacent properties that represent a potential contamination concern to the site.

Table 9: Current and Past Uses of Adjoining Properties		
Uses of Adjoining and Nearby Properties	**Notable Past Uses and Approximate Time Period**	**Observations and Notes**
West		
Residential homes and ongoing construction.	Undeveloped land (<1938) Residential homes (1949 – Present)	Ramboll did not observe conditions on or identify past uses of adjacent properties that represent a potential contamination concern to the site.
Notes: During the site visit, Ramboll walked or drove by the borders of the properties that are adjacent to the site. Ramboll did not enter the neighboring properties.		

6.2 Database Review for Off-site Properties

6.2.1 Adjoining Properties

Based on a review of the environmental database search report, Ramboll identified the adjoining property listed below on databases relating to known or potential past releases.

Table 10: Database Listings Relating to Known/Potential Releases at Adjoining Properties[1]		
Listing Name or Address and Location Relative to the Site	**Summary of Information Contained in Database**	**Ramboll's Comments**
H & H General Contractors Inc 7919 Palm Avenue (Adjoining to the east)	The property is listed on the AST and CERS Tanks database for the presence of an on-site AST. The date of installation, contents, and size of the AST are not reported.	Because there is no indication of any spills or releases, this off-site listing does not suggest a contamination concern to the site.
Notes: [1] Ramboll's analysis of adjoining properties was based on observations made during the site reconnaissance and location information for off-site listings as presented in the database report. Also, for purposes of this analysis, Ramboll considers as "adjoining" properties that are adjacent, even if separated by a road or other physical barrier. Ramboll has not included a discussion of compliance-related databases in this table, as Ramboll considers it unlikely that off-site properties listed on compliance-related databases without indication of a release or chemical mishandling represent a potential risk for contamination to the site.		

6.2.2 Other Surrounding Properties

There are several listings in the environmental database report for non-adjoining off-site facilities within applicable ASTM search radii; however, Ramboll has not identified any properties that are likely to represent a potential contamination concern to the site.[4]

Ramboll notes that the site is located approximately 0.18 miles northeast of the former Norton Air Force Base, which is listed on the National Priorities List (NPL). The northeast corner of the former Norton Air Force Base, the corner closest to the subject site, is referred to as Installation Restoration Program Site 2 (IRP Site 2) and was a former base landfill used between 1958 and 1980. This site is also listed on GeoTracker as a "Military Cleanup Site with Open-Verification Monitoring as of 7/31/2009" status. A landfill cover and cover gas collection and control system were installed and completed in 1998. Groundwater monitoring reports for the former Norton Air Force Base site indicate that groundwater flows to the southwest, away from the subject site. Therefore, contamination associated with the former Norton Air Force Base site does not extend northeast of the base in the direction of the site. Further, groundwater impacts at the former Norton Air Force Base have been remediated to the satisfaction of regulatory agencies and the base-wide groundwater monitoring program was discontinued in 2019.

The database report indicates that poor or inadequate address information was available for several properties located in the vicinity of the site; therefore, these properties could not be readily mapped by the third-party provider. Because the location of these properties with respect to the site could not be evaluated, Ramboll is limited in its ability to express an opinion regarding the potential for impact to the site from these properties. It was beyond the scope of this review to accurately locate each of the unmapped properties identified in the database report; however, Ramboll reviewed the list of unmapped properties and verified that none appeared to be adjacent to the site.

[4] Ramboll considered non-adjoining properties to represent a potential risk of contamination to the site only if they are listed on databases indicative of contamination, with open status, and located potentially upgradient of the site (as the issuance of regulatory closure suggests that impacts to the site from the noted off-site property are unlikely).

7. FINDINGS, OPINIONS, AND CONCLUSIONS

7.1 Findings, Opinions, and Conclusions

7.1.1 Recognized Environmental Conditions

Ramboll has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 of the site at 27124-27280 Meines Street in Highland, California. Any exceptions to, or deletions from, this practice are described in Section 7.2 of this report. This assessment has revealed no evidence of RECs in connection with the site.

7.1.2 Other Findings

In addition, the following additional findings related to potential contamination concerns were identified:

- **Past Light Industrial Operations at the Site.** Metalworking operations by KCB Towers Inc began at the site around 1982 and has continued to the present. There is no readily available information as to the specific use of chemicals in the past, but there is no indication that these operations were chemically intensive or involved the use of significant amounts of petroleum products or other hazardous substances. Because of the nature of the operations, it is possible that the use of the site for metalworking operations involved the use of chlorinated solvents. The site is not listed on any environmental databases indicative of a release or of hazardous waste generation. Also, Ramboll notes that these operations were conducted during a time period when robust environmental regulations were in the process of being put in place regarding chemical handling and waste management. While it is possible that small-scale spills or releases of chemicals or petroleum products may have occurred in the past, Ramboll identified no specific contamination concerns (e.g., obvious evidence of contamination, former underground storage tanks, listings indicating past chlorinated solvent use in significant quantities, known releases), and thus this matter is not considered a REC.
- **Presence of Floor Drains and Below-Grade Grease Pits.** Two areas with floor drains and below-grade grease pits are located on the KCB Towers lot, one adjacent to the vehicle and equipment maintenance area on the northern portion of the lot and one adjacent to the refueling station on the southwest corner of the lot. The drains are used to collect and the grease pits are used to contain any fluid containing petroleum products or chemicals from each area. The pits (1,000-gallon capacity) are constructed of concrete and are pumped out for cleaning on a routine basis by a third-party. Ramboll could not evaluate the integrity of the pits at the time of the site visit and cannot rule out the possibility of leakage from the pits and contamination to the subsurface. Site representatives indicated that no breaches in the pit have been discovered during the cleanings, which include a visual inspection, and no spills or leaks have occurred. Because Ramboll's review did not identify documentation of a release, a suspected release, or a potentially material threat of a release of a hazardous substance or petroleum product related to this matter, it is not considered a REC.
- **Staining on Unpaved Ground.** Ramboll observed multiple areas of darkened staining from unknown substances on unpaved surface on parcel 1192-621-20 owned by Mark Mazzulla, in areas associated with vehicle storage, minor auto repair operations, and around drums of hazardous substances. Portions of the stains were covered, obscuring visibility, but the largest staining was approximately three feet by five feet in area. While the nature of the stain was not clear, the use of the lot is related to vehicle storage and vehicle maintenance has occurred on the lot. However, Ramboll considers this minor staining matter unlikely to be the subject of additional

investigation if brought to the attention of a regulatory authority and considers this matter to represent an Other Finding.

7.1.3 *De Minimis* Conditions

De minimis conditions are those that do not represent a material risk of harm to public health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies. Ramboll identified the following *de minimis* conditions related to the site:

- **Septic System and Leach Field.** An active septic system and associated leach field are used to collect sanitary wastewater from the building owned by the Filipino Association of San Bernardino County on parcel 1192-621-09. Site representatives indicated that only sanitary waste is discharged to the system. Further, the system services a building that has not historically included manufacturing operations, no known discharges of hazardous materials to the system have occurred, and no floor drains are present other than routine restroom drains. Because of the nature of the reported discharge and the absence of known past releases to the septic system, it is unlikely to represent a threat to human health or the environment. Thus, Ramboll characterizes this finding as a *de minimis* condition.
- **Pavement and Floor Staining.** Ramboll observed multiple areas of exterior pavement and interior flooring where oil stains were apparent. Stains approximately three feet by five feet in area were observed around the hazardous waste drums in KCB Tower Inc's maintenance area. The stains were limited in areal extent, the underlying pavement/flooring appeared to be intact, and no stains appeared to reach floor drains or stormwater drains. As such, Ramboll considers this matter to represent a *de minimis* condition.

7.2 Analysis of Data Gaps

The ASTM Standard defines a data gap as "a lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information." A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the environmental professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps.

Limiting conditions and deviations to the ASTM Standard for the assessment are discussed below.

- Site representatives did not have current contact information for representatives of former site owners/occupants or all current property owners. Ramboll made reasonable attempts to obtain such information, but it was not otherwise readily available. Thus, Ramboll was unable to interview former owners/occupants about historical operations and site conditions or all current property owners. However, Ramboll conducted interviews with representatives of KCB Towers Inc with tenure at the site dating back to 1989, Mazzulla Offroad with tenure at the site dating back to 1999, Randy Tirb with tenure at the site dating back to 2001, and Tyler Plata, a representative of Robert Forshay and the Filipino Association of San Bernardino County, and reviewed other historical sources regarding former uses of the site.
- During the site visit, parcel 1192-621-09 owned by the Filipino Association of San Bernardino County was inaccessible due to a closed gate. The parcel and the building on this parcel were observed from perimeter areas. Based on the information provided by site representatives regarding this parcel, this limitation is not considered to have affected the analysis of site conditions. In addition, Ramboll did not observe the roofs of the buildings due to access and safety constraints.

- As it is a user requirement, Ramboll did not conduct a review of records to identify whether any environmental liens or activity and use limitations (AULs) have been imposed on the site.

None of the exceptions, deletions, deviations, or site reconnaissance limitations noted above is considered to represent significant data gaps.

8. ASTM DEFINITIONS

The following definitions are presented in the ASTM Standard:

REC - Recognized Environmental Condition:

(1) The presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.

CREC - Controlled Recognized Environmental Condition:

A REC affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

HREC - Historical Recognized Environmental Condition:

A previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations).

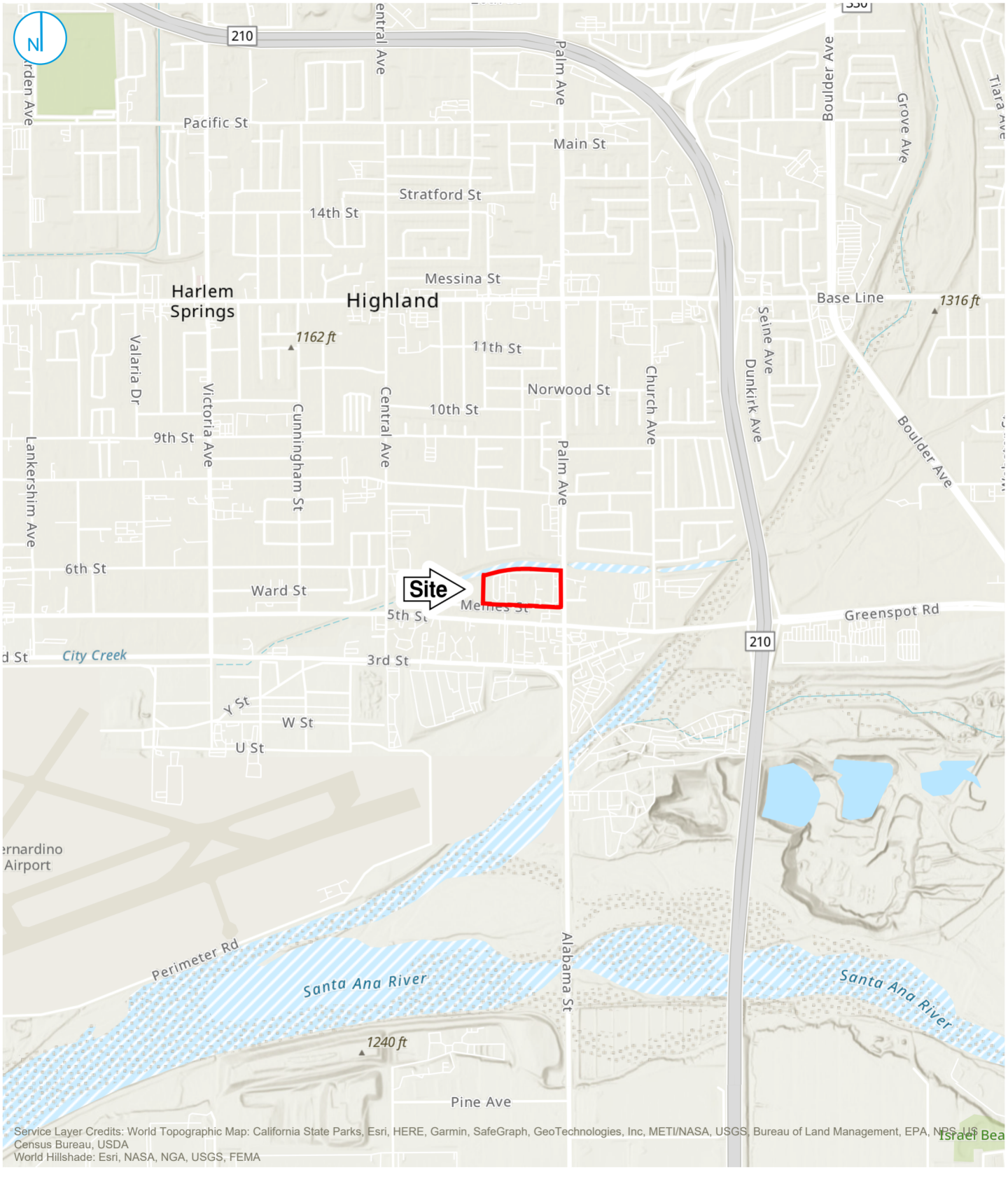
***De minimis* Condition:**

A condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Data Gap/Significant Data Gap:

A lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information. A data gap that affects the ability of the environmental professional to identify a REC is considered a significant data gap.

FIGURES



Service Layer Credits: World Topographic Map: California State Parks, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA
World Hillshade: Esri, NASA, NGA, USGS, FEMA

C:\Users\CWILLIAMSFREIER\Ramboll\Melody Kneale - Projects_Phase_II\Lovett Industrial\Meines Street\PhaseIFigures.aprx\Figure 01 - Site Location

Map Scale: 1:24,000 | Map Center: 117°12'42"W 34°6'34"N

KEY MAP (not to scale)

Site Boundary

0 1,000 2,000 Feet

SITE LOCATION

27124-27280 Meines Street
Highland, California

FIGURE 01

DRAFT

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

Site Boundary
GW General Waste
AST Propane AST
T Transformer
O Oil Reservoir in Cutting Machine
0 75 150 Feet

Occupied by KCB Towers Inc
Occupied by Mazzulla Offroad
Occupied by Randy Tirb
Occupied by Filipino Association of San Bernardino County
Vacant parcel owned by Robert Forshay

SITE LAYOUT

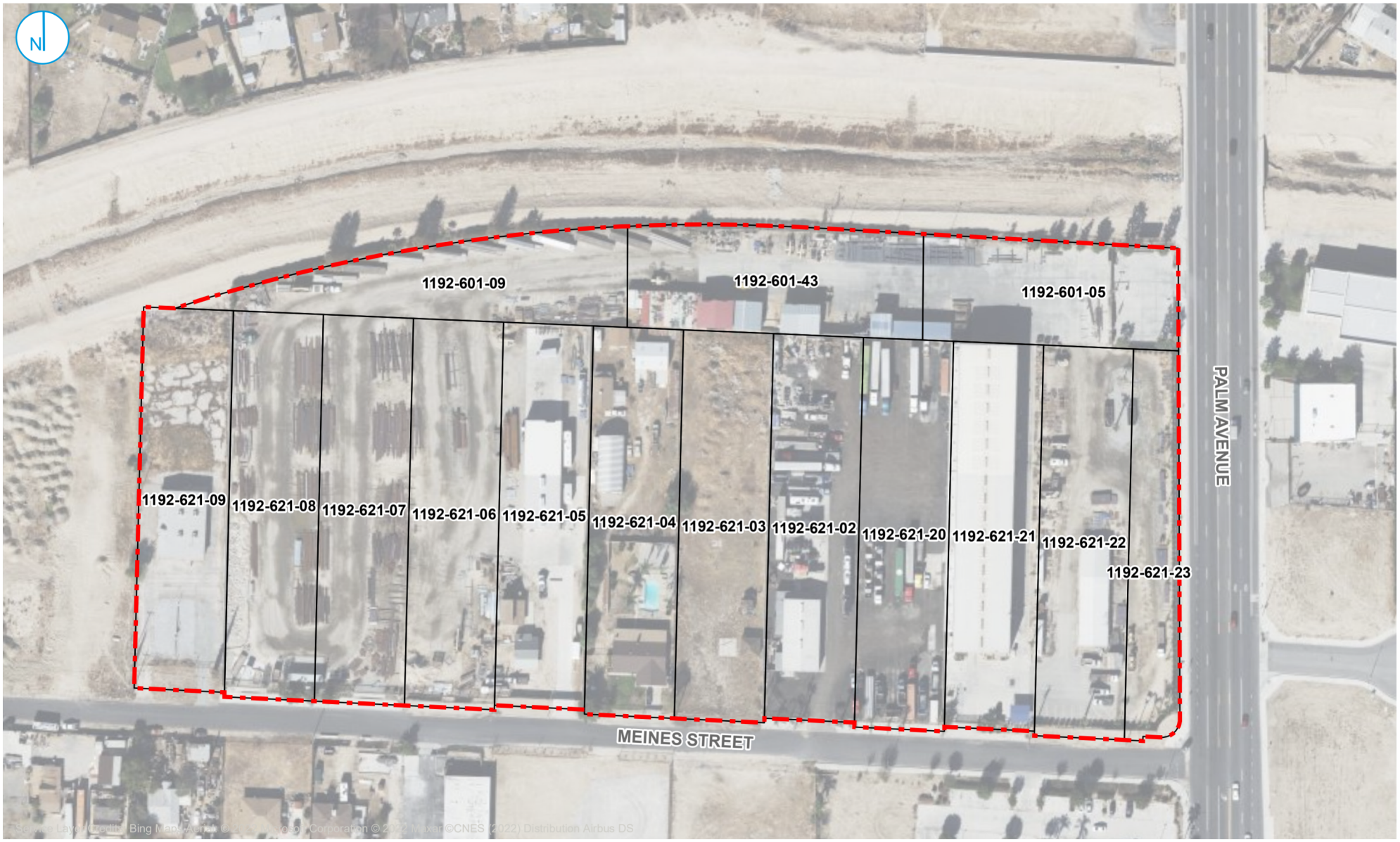
27124-27280 Meines Street
Highland, California

FIGURE 02

DRAFT

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL



Site Boundary

Tax Parcels

0 75 150 Feet

TAX PARCELS

27124-27280 Meines Street
Highland, California

FIGURE 03

DRAFT

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

APPENDIX A
SITE PHOTOGRAPHS

Photo 1: View of Mazzulla Offroad (parcels 1192-621-02 and 1192-621-20) and KCB Towers Inc (parcel 1192-621-21) from the southern site boundary, facing north.

Photo 2: Inside of KCB Towers Inc warehouse on the eastern portion of the site, where steel cutting and welding operations take place.

Photo 3: Maintenance area on northern portion of KCB Towers Inc facility where hazardous chemicals and wastes are stored.

Photo 4: Empty drum storage and hazardous waste storage area located at maintenance area of KCB Towers Inc facility with minor pavement staining.

Photo 5: Floor drains at maintenance area of KCB Towers Inc facility that direct any water and fluids to a grease pit at the site, which is maintained by a third-party.

Photo 6: Propane AST located near the center of the northern site boundary of the KCB Towers Inc facility.

Photo 7: Fueling station with diesel fuel ASTs located on the southwest corner of the KCB Towers Inc facility.

Photo 8: Hazardous materials storage and minor pavement staining located inside of the Mazzulla Offroad warehouse.

Photo 9: Storage of metal scraps and miscellaneous equipment inside metal storage container on Mazzulla Offroad lot.

Photo 10: Propane AST located near the northern boundary of the Mazzulla Offroad lot.

Photo 11: Truck parking, vehicle storage, and miscellaneous storage on the Mazzulla Offroad lot.

Photo 12: Drum labeled as used oil filters with staining on the unpaved ground surrounding it on the eastern boundary of the Mazzulla Offroad lot.

Photo 13: Metal container storage and minor staining on the unpaved ground located at the Mazzulla Offroad lot.

Photo 14: View of the vacant lot owned by Robert Forshay (parcel 1192-621-03) with two vacant residential buildings.

Photo 15: Interior of the abandoned residential building on the vacant lot owned by Robert Forshay (parcel 1192-621-03).

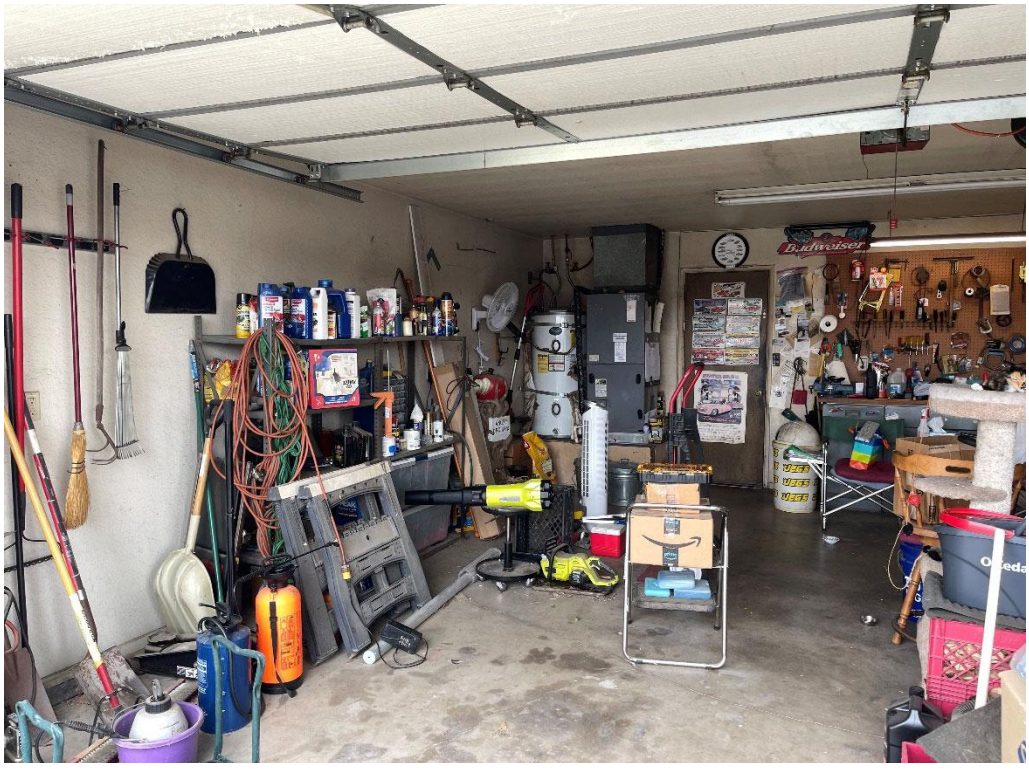


Photo 16: Inside of Randy Tirb's garage (parcel 1192-621-04) where retail-sized containers of maintenance and cleaning chemicals are stored.

Photo 17: View of the pool and the backyard on Randy Tirb's lot (parcel 1192-621-04).

Photo 18: Warehouses and storage buildings on the northern portion of Randy Tirb's lot (parcel 1192-621-04) with storage of cars and car parts.

Photo 19: View of the lot owned by the Filipino Association of San Bernardino County (parcel 1192-621-09) from the southern site boundary, facing north.

Photo 20: View of Meines Street with pole-mounted transformers along the southern site boundary, facing east.

APPENDIX B
ENVIRONMENTAL DATABASE REPORT

NOTES ON ENVIRONMENTAL DATABASE REPORT

The third-party provider conducted its searches for the standard environmental record sources and the minimum search distances, as specified by the ASTM Standard. The ASTM Standard uses the terminology "approximate minimum search distance" to refer to the radii searched in the environmental database report.

Because the environmental databases themselves are sometimes not updated by the specific regulatory agencies for periods of up to one year or more (depending on the database and the state), the database search conducted herein will not necessarily list any facility or site for which an environmental investigation/listing has been initiated subsequent to the last update.

APPENDIX C
HISTORICAL RESEARCH DOCUMENTATION

APPENDIX C.1
TOPOGRAPHIC MAPS

APPENDIX C.2
AERIAL PHOTOGRAPHS

APPENDIX C.3
ABSTRACT OF CITY DIRECTORIES

APPENDIX C.4
HISTORICAL FIRE INSURANCE MAPS

APPENDIX D
USER QUESTIONNAIRE

APPENDIX E
QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Appendix H2

Preliminary Hydrology Calculations

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

INDUSTRIAL DEVELOPMENT
27820 MEINES STREET
HIGHLAND, CA

PREPARED FOR
LOVETT INDUSTRIAL
1730 E. HOLLY AVENUE
EL SEGUNDO, CA 90245
PHONE: (949) 402-2760

JULY 19, 2022

JOB NO. 4110

PREPARED BY

THIENES ENGINEERING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PHONE: (714) 521-4811
FAX: (714) 521-4173

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

27820 MEINES STREET

PREPARED UNDER
THE SUPERVISION OF

_____

REINHARD STENZEL DATE:
R.C.E. 56155
EXP. : 12/31/22

INTRODUCTION

A: PROJECT LOCATION

The project site is located on the northwest corner of Palm Avenue and Meines Street in the City of Highland, CA. See next page for vicinity map.

B: STUDY PURPOSE

The purpose of this study is to determine the existing and proposed condition 100-year peak flow rate from the project site that ultimately drains to City Creek Channel.

C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel
Brian Weil

DISCUSSION

The project site encompasses approximately 12.75 acres. Proposed improvements to the site include one warehouse-type building of approximately 282,067 square feet. There is a truck yard on the north side of the building with vehicle parking on the westerly and easterly sides of the site. There is landscaping located throughout the site and adjacent to the streets.

Master Plan of Drainage

The project site is within San Bernardino County Flood Control District's Comprehensive Storm Drain Plan No. 6. The nearest Master Plan facility is a future storm drain line in 5th Street. However, it does not appear that the project site is tabled to this storm drain system. The project site is likely tabled to the existing City Creek just north of the site, but available maps do not indicate a specific point of confluence or connection. The Master Plan indicates that City Creek Channel adjacent to the project site is "adequate".

Existing Storm Drains

There are no existing storm drains in the streets adjacent to the project site. However, City Creek Channel is immediately north of the project site. Plans for the Channel were obtained from San Bernardino County Flood Control District. The plan does not indicate a peak flow rate or a water surface elevation. For preliminary design purposes, it is assumed that there is 2.0' of freeboard, that is the water surface elevation is about 2.0' below the top of the channel. See Appendix "A" for reference County channel plans.

FEMA Flood Zone:

The project site is with in FEMA Flood Zone X (shaded) as shown on FIRM 06071C87025H, Effective August 28, 2008. Flood Zone X (shaded) is defined as "areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood".

Existing Condition

The project site is currently several individual lots. Most have existing commercial developments, but there are two lots that appear to be residential usage. Runoff from the lots tend to drain southerly to Meines Street. However, there is an existing storm drain connection to City Creek that appears to serve a portion of the project site.

Runoff from the easterly commercial developments (nodes 100-101 and 110-111 on existing condition hydrology map) tend to drain southerly to grate inlets at the respective sites. The grates appear to be part of a dry well system. However, very little ponding is

required prior to flow discharging to Meines Street. The respective 100-year peak flow rates at these areas are approximately 9.0 cfs and 6.1 cfs.

The two residential lots (nodes 120-121) tend to drain southerly to Meines Street. The 100-year peak flow rate at this location is approximately 4.9 cfs.

The northeast corner of the project site (nodes 130-131) is part of a commercial development that drains to a grated inlet at this portion of the site. This also appears to be a dry well situation; however, it is possible that this area is tributary to the existing connection to City Creek. The 100-year peak flow rate for this area is approximately 3.5 cfs.

Finally, the remaining northerly and westerly commercial development drains to the southwest portion of the project site drain towards Meines Street. Here there are grate inlets and trench drains near the street that appear to drain to the street via small pipes through the curb face. Higher flows simply sheet flow to the street. The 100-year peak flow rate at this area is approximately 14.7 cfs.

The total 100-year peak flow rate from the project site under existing conditions is approximately 38.2 cfs (summation of the individual drainage areas).

See Appendix "B" for existing condition hydrology calculations and Appendix "D" for existing condition map.

Proposed Condition

While the site generally drains to Meines Street under existing conditions, the downstream portions of the street are not fully improved (no curb and gutter) and there is no existing point of connection to the existing channel. Since the site is ultimately tabled to City Creek, a storm drain connection to the channel is proposed near the northwest corner of the project site.

Runoff from the proposed building, the easterly parking area and the northerly truck yard area (nodes 100-125) drain to catch basins located in the parking lot and truck dock area. A proposed storm drain conveys runoff westerly through the truck yard area.

Flow from the westerly parking area (nodes 130-142) area collected in catch basins located in the westerly parking lot. A proposed storm drain conveys flow northerly and connects to the previously mentioned storm drain system. The storm drain continues northerly, connecting to City Creek Channel.

Finally, runoff from the northerly portion of Meines Street and the proposed landscaping adjacent to the street will be collected in a catch basin in Meines Street near the westerly driveway. A proposed storm drain conveys flow northerly through the site to the proposed connection to City Creek Channel.

The total 100-year peak flow rate to the Channel is approximately 46.5 cfs, undetained. See Appendix "B" for proposed condition hydrology calculations and Appendix "D" for proposed condition hydrology map.

As previously mentioned, the water surface elevation in the City Creek Channel is not shown on the plans. It is likely that the water surface elevation in the Channel is higher than the grates in the westerly parking area and the proposed catch basin at the street. Therefore, a flapgate will be installed to prevent backwater from the channel into the project site and the street. When the water surface elevation in the channel exceeds the top of grates, the driveway acts as an emergency outlet for the onsite flows allowing runoff to the street. The overall potential discharge to the street in this event is considerably less than the existing flows to the street.

Detention

Onsite detention is proposed to reduce runoff from the project site to less than existing conditions. Detention is proposed in the truck yard for areas tributary to this location. The truck yard is higher than the elevations of the westerly parking lot, so these flows cannot be stored in the truck yard and will discharge without detention.

Discharge rates from the truck yard are based on the available head with an 18" outlet. The orifice equation was used to compute discharge rates with the available head equal to the difference in various ponding depths and the expected water surface elevation in the Channel (assumed to be 1182.0).

A small area unit hydrograph was established for the area tributary to the truck yard. Flow through routing shows that the expected discharge from the truck yard is about 14.6 cfs, with a ponding depth of approximately 0.69'. Including the discharge from the westerly parking area (5.6 cfs), the total discharge from the project site is approximately 20.2 cfs.

See Appendix "C" for detention calculations.

Methodology

Hydrology calculations were computed using the San Bernardino County Rational Method program (by AES Software). The soil type is "A" per the San Bernardino County Hydrology Manual. See Appendix "A" for pertinent reference materials from the Hydrology Manual.

Summary

The following table summarizes existing and proposed (with detention) 100-year peak flow rates for the project site:

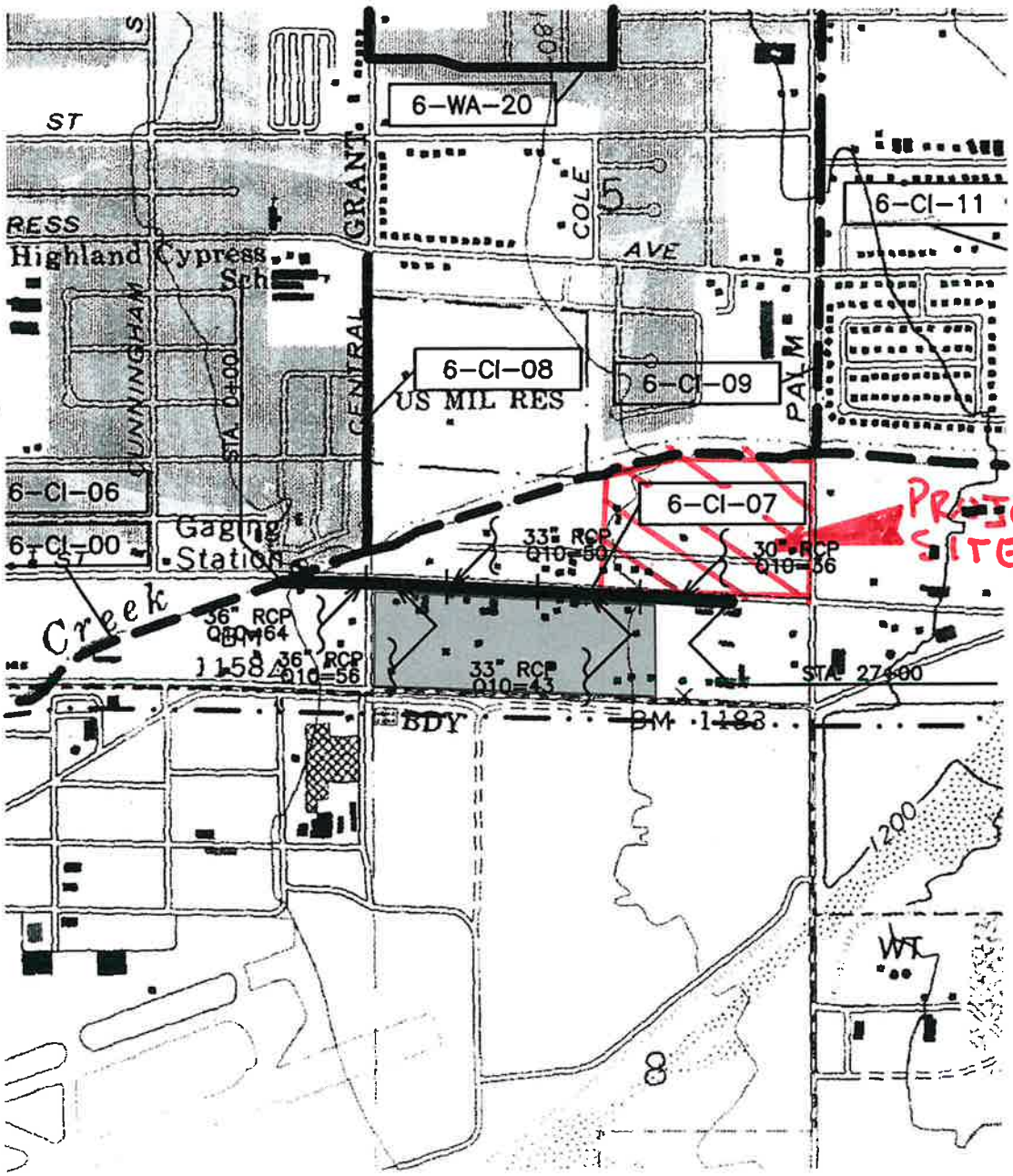
Existing Condition	Proposed Condition	Difference
38.2 cfs	20.2 cfs	-18.0 cfs

Overall, discharge rates are significantly less than existing conditions. Flow to Meines Avenue have been generally eliminated, providing relief to downstream areas. The proposed storm drain system conveys runoff directly to the Channel, which is where flows area tabled.

APPENDIX	DESCRIPTION
A	REFERENCE MATERIALS
B	HYDROLOGY CALCULATIONS
C	DETENTION CALCULATIONS
D	HYDROLOGY MAP

APPENDIX A

REFERENCE MATERIALS



LEGEND			
PROJECT – SHOWN ON THIS SHEET	PLAN		SCALE 1" = 1000'
PROJECT – SHOWN ON ANOTHER SHEET			
PROPOSED FACILITY			
EXISTING FACILITY – DEFICIENT			
EXISTING FACILITY – ADEQUATE			
WATERSHED BOUNDARY			
BASIN			

Exponent
Failure Analysis Associates

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT

COMPREHENSIVE STORM DRAIN PLAN

PROJECT NO. 6-CI-07
SHEET 1 OF 3

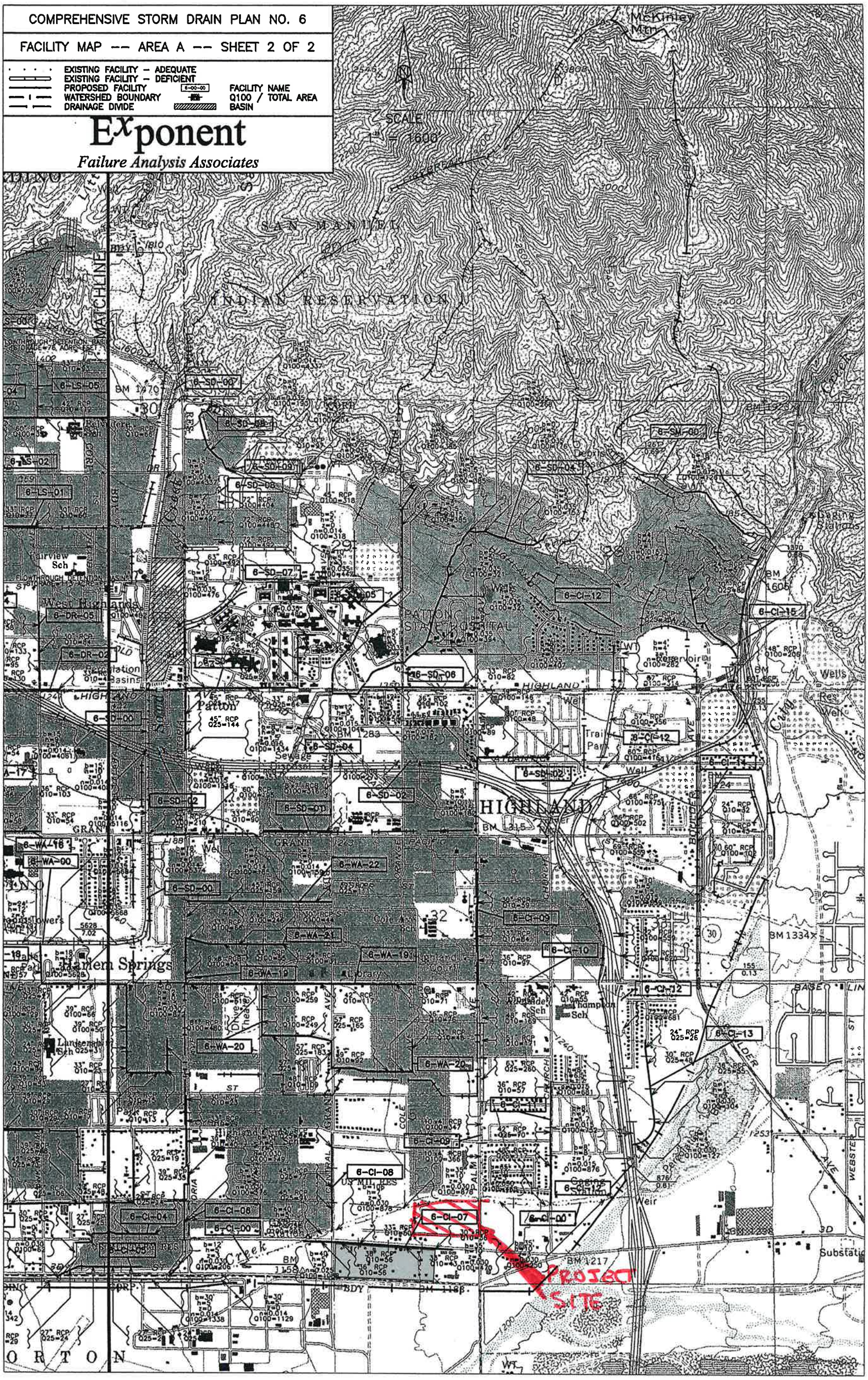
COMPREHENSIVE STORM DRAIN PLAN NO. 6

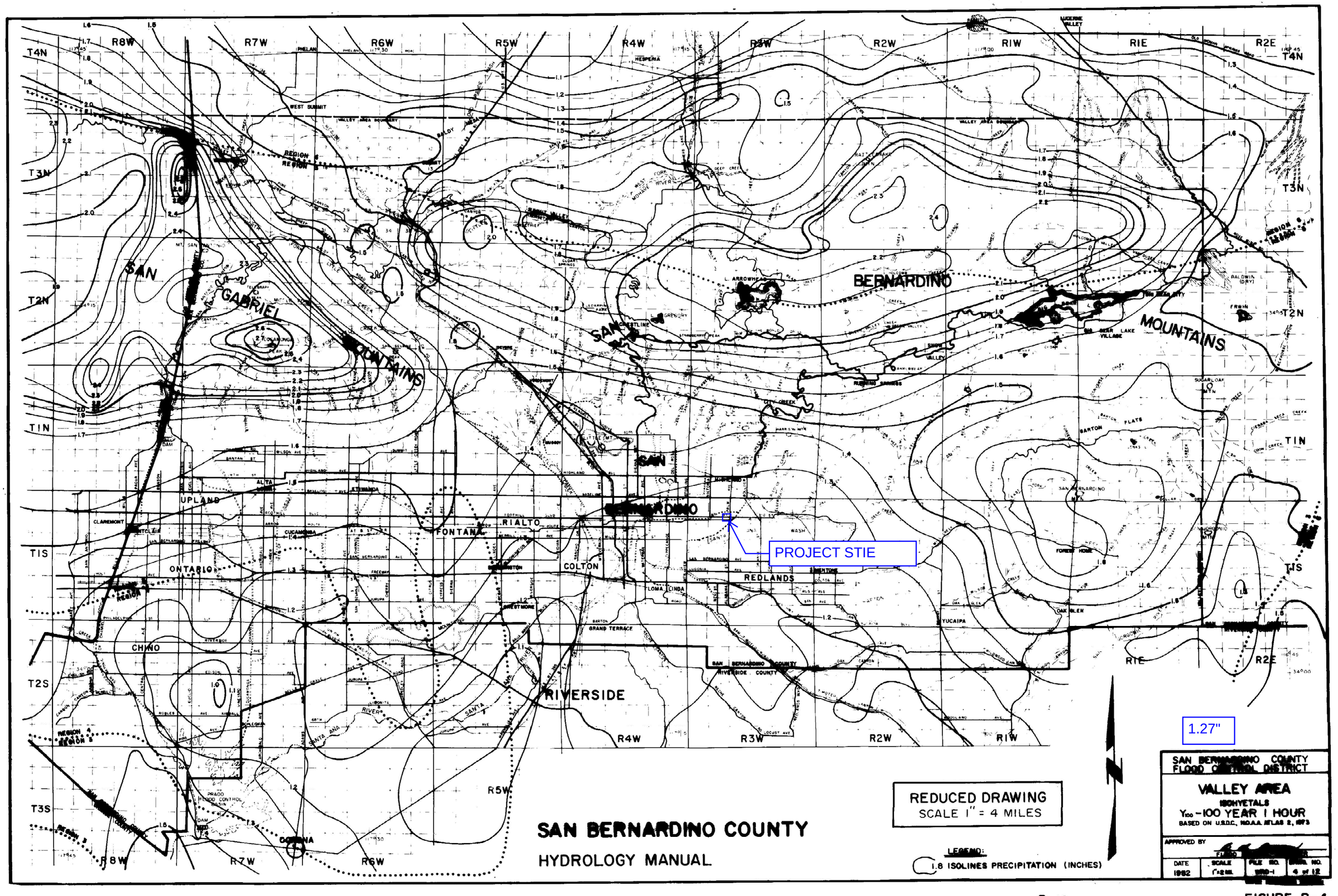
FACILITY MAP -- AREA A -- SHEET 2 OF 2

EXISTING FACILITY – ADEQUATE
EXISTING FACILITY – DEFICIENT
PROPOSED FACILITY — 6-00-00 — FACILITY NAME
WATERSHED BOUNDARY — Q100 / TOTAL AREA
DRAINAGE DIVIDE — BASIN

Exponent
Failure Analysis Associates

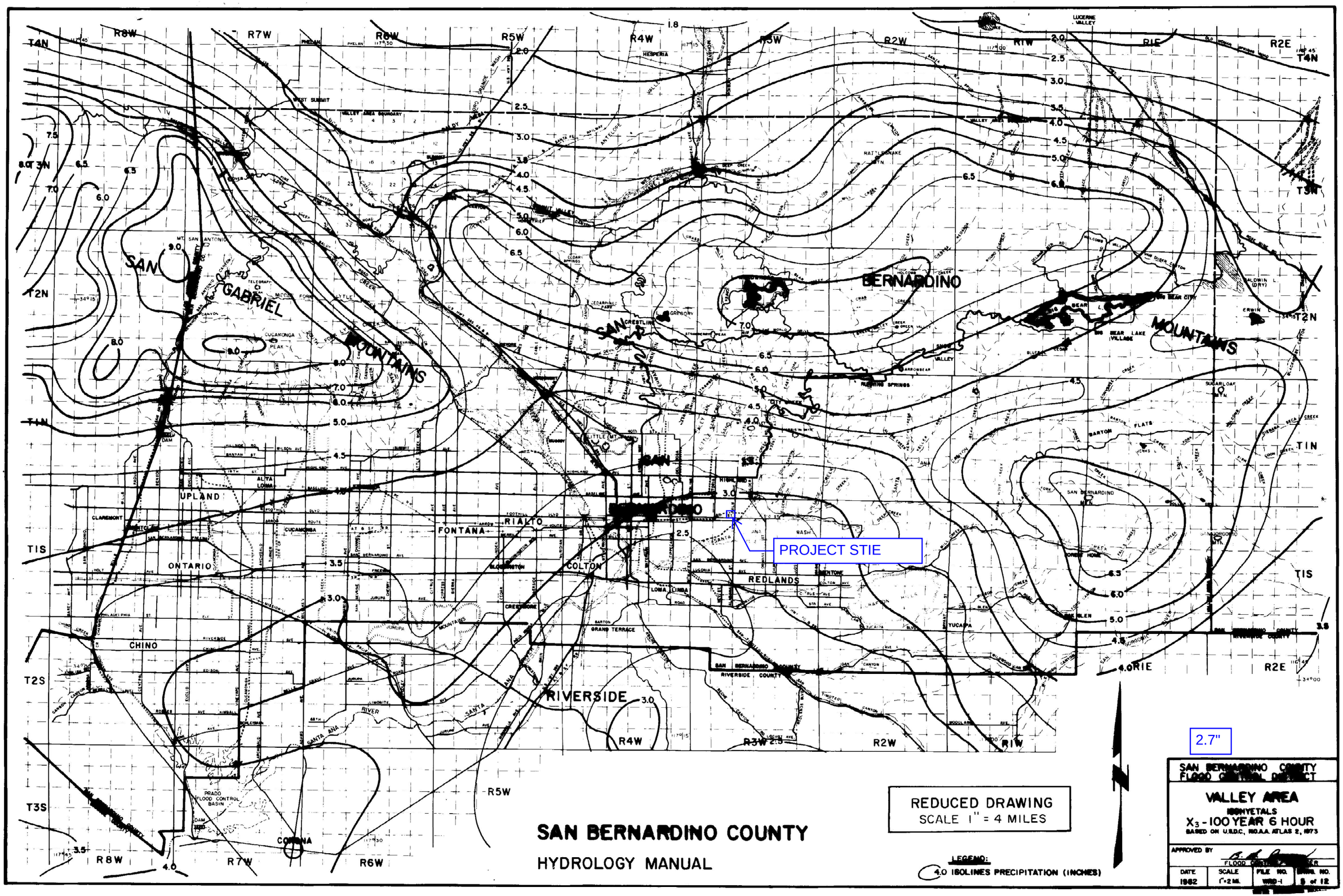
SCALE 1" = 1600'





SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
1.8 ISOLINES PRECIPITATION (INCHES)
PROJECT STIE
1.27"
SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
Y100 - 100 YEAR 1 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973
APPROVED BY
DATE 1982
SCALE 1"=2 MI.
FILE NO. WRD-1
DWG. NO. 4 of 12
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
SAN BERNARDINO
RIVERSIDE
UPLAND
ONTARIO
CHINO
FONTANA
RIALTO
COLTON
REDLANDS
CORONA
R8W
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E
T4N
T3N
T2N
T1N
T1S
T2S
T3S

FIGURE B-4



SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

REDUCED DRAWING
SCALE 1" = 4 MILES

LEGEND:
4.0 ISOLINES PRECIPITATION (INCHES)

2.7"

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT

VALLEY AREA
ISOHYETALS
X_3 - 100 YEAR 6 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973

APPROVED BY [redacted]
FLOOD CONTROL ENGINEER

DATE	SCALE	FILE NO.	DWG. NO.
1982	1"=2 MI.	WRD-1	9 of 12

FIGURE B-5

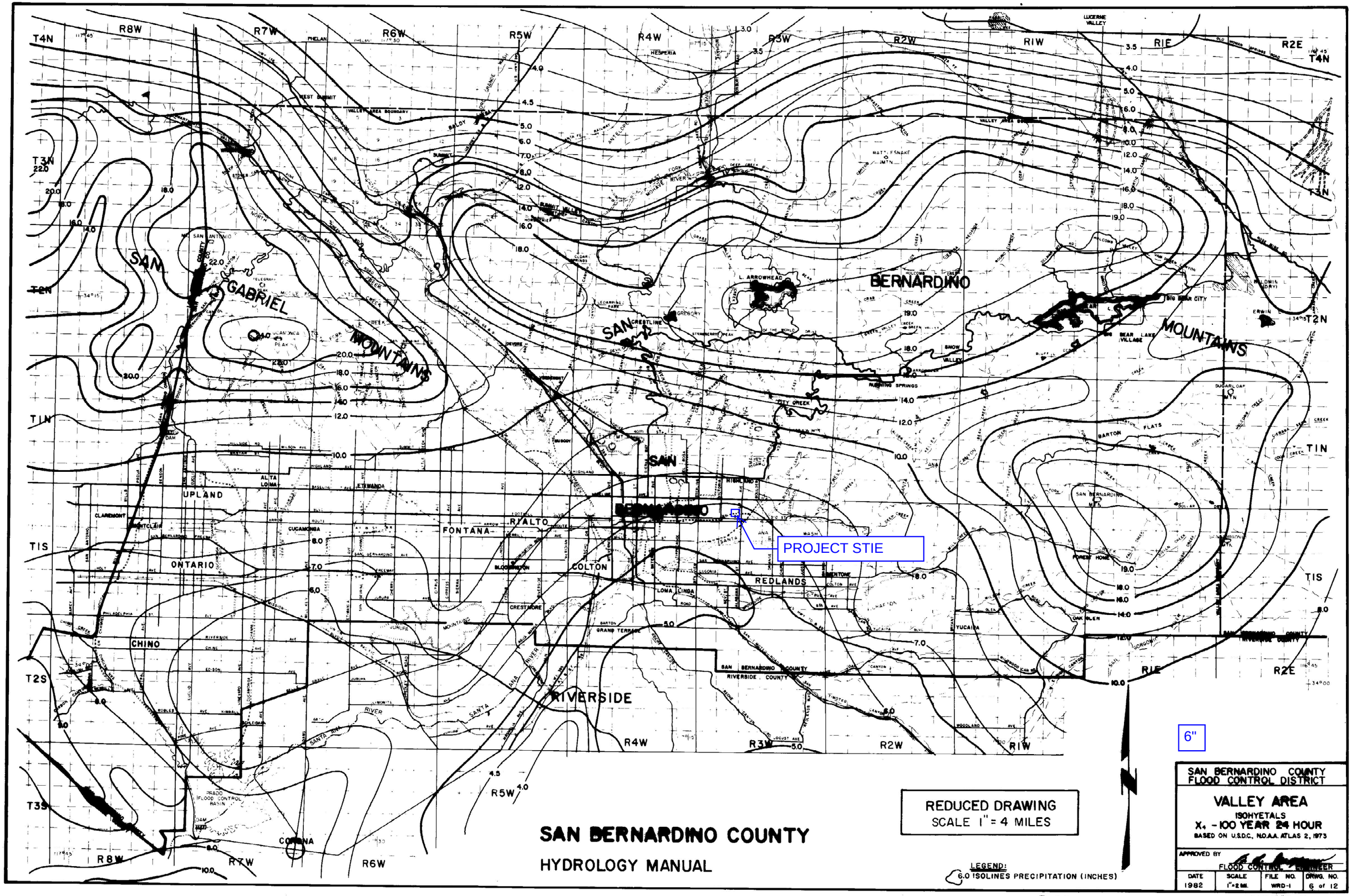
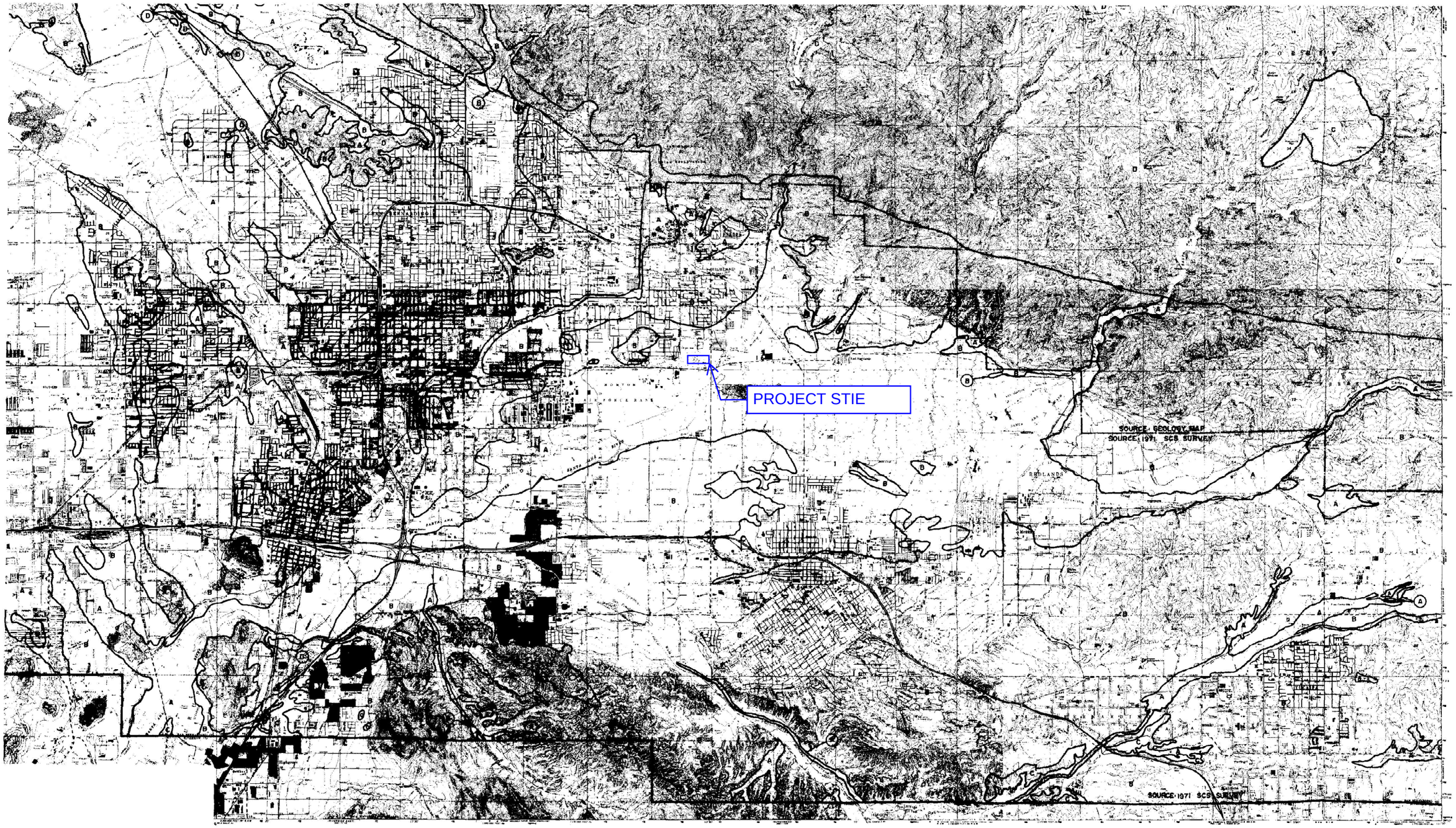

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
6.0 ISOLINES PRECIPITATION (INCHES)
PROJECT STIE
6"
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
X4 - 100 YEAR 24 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973
APPROVED BY
FLOOD CONTROL ENGINEER
DATE 1982
SCALE 1"=2 MI.
FILE NO. WRD-1
DRWG. NO. 6 of 12
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
SAN BERNARDINO
RIVERSIDE
UPLAND
ONTARIO
CHINO
FONTANA
RIALTO
COLTON
REDLANDS
CORONA
L. ARROWHEAD
BIG BEAR CITY
BIG BEAR LAKE VILLAGE
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY
T4N
T3N
T2N
T1N
T1S
T2S
T3S
R8W
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E

FIGURE B-6



INDEX MAP

C-1 | C-2 | SAN BERNARDINO COUNTY | C-3 | C-4 | C-5 | C-6 | C-7 | C-8

LEGEND

SOIL GROUP BOUNDARY

A SOIL GROUP DESIGNATION

BOUNDARY OF INDICATED SOURCE

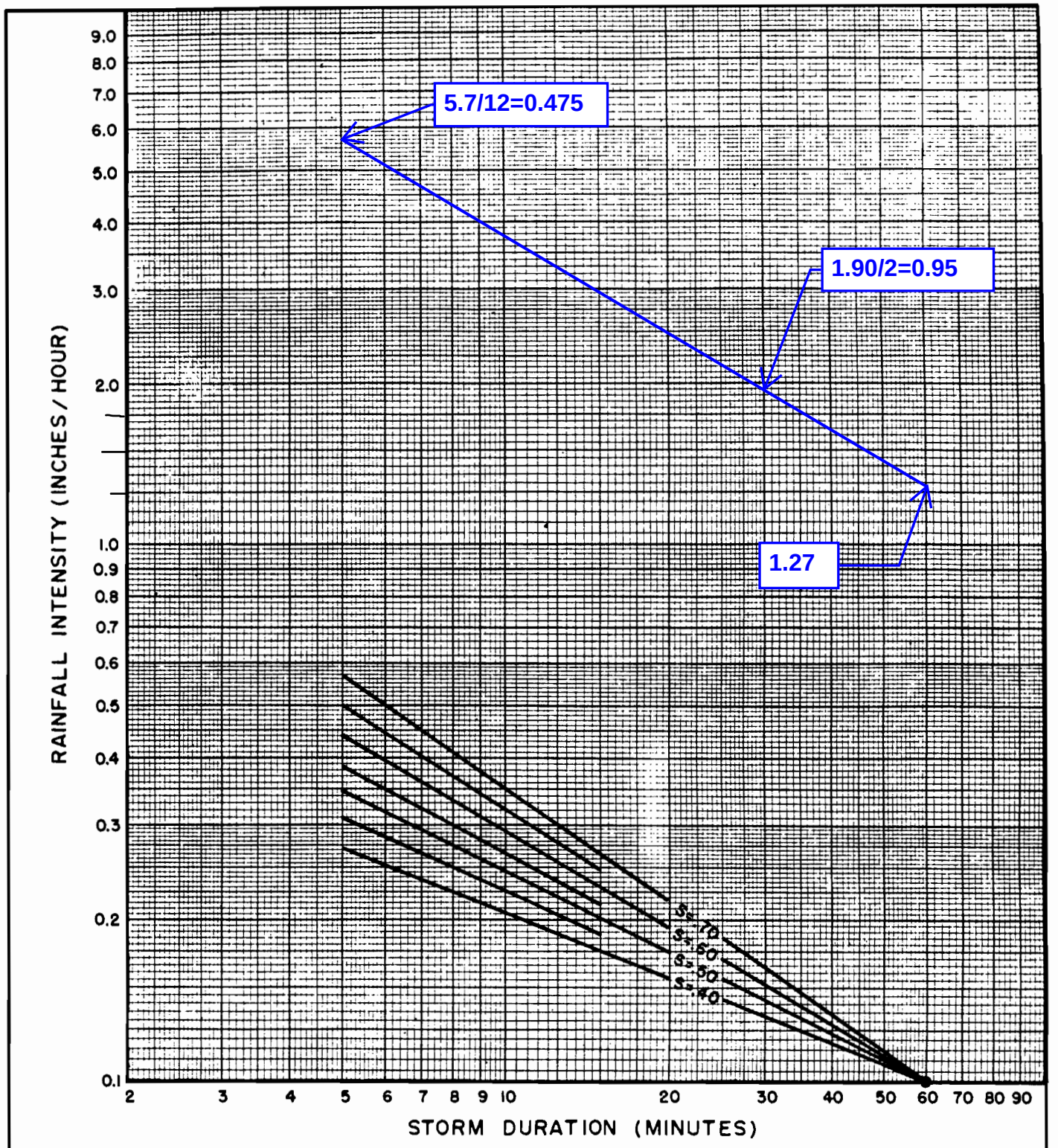
SCALE 1:48,000

SCALE REDUCED BY 1/2

SAN BERNARDINO COUNTY

HYDROLOGY MANUAL

HYDROLOGIC SOILS GROUP MAP
FOR
SOUTHWEST-D AREA



DESIGN STORM FREQUENCY = 100 YEARS

ONE HOUR POINT RAINFALL = 1.27 INCHES

LOG-LOG SLOPE = 0.6

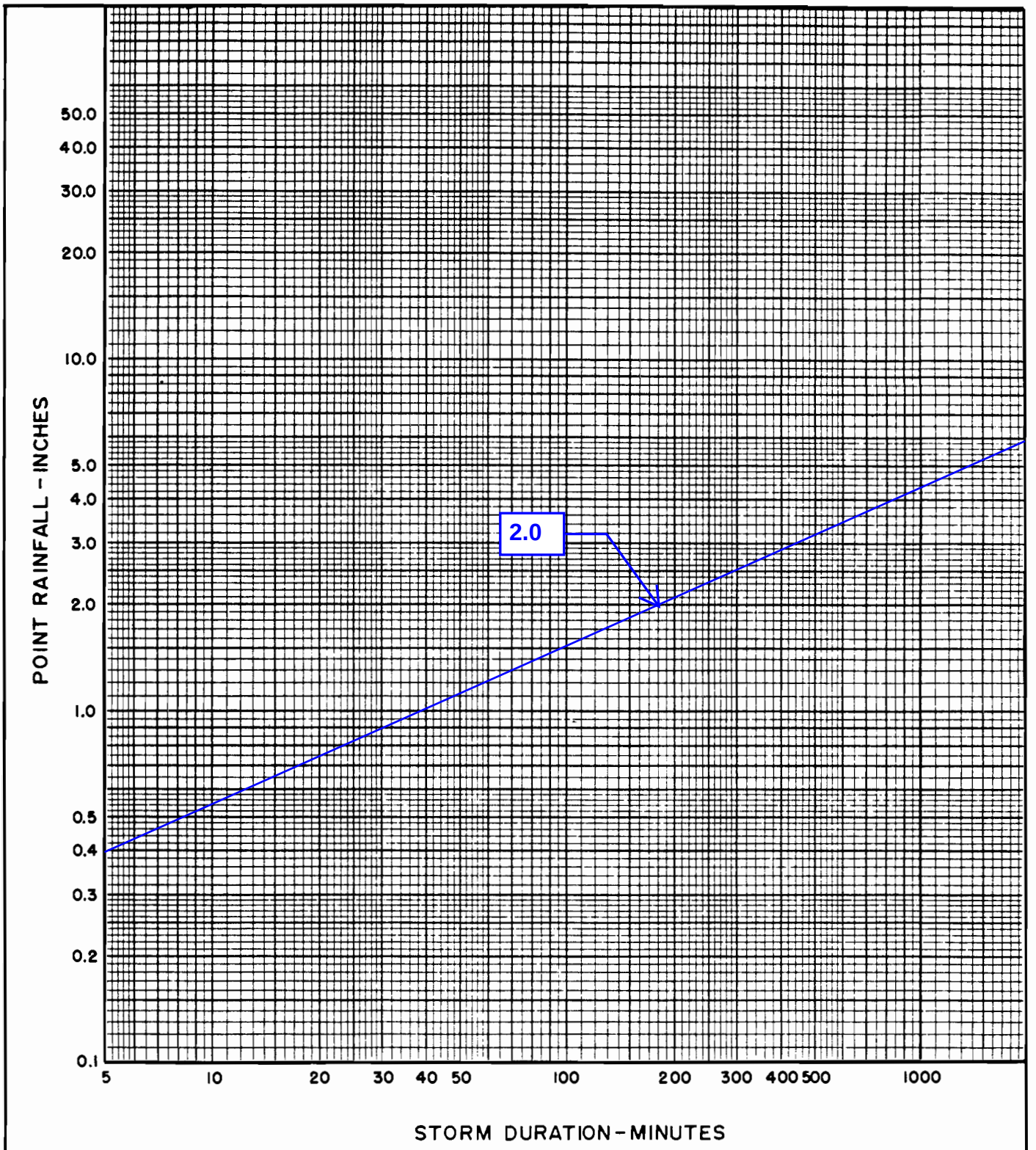
PROJECT LOCATION = SAN BERNARDINO

SAN BERNARDINO COUNTY

HYDROLOGY MANUAL

INTENSITY - DURATION CURVES CALCULATION SHEET

FIGURE D-3



PROJECT LOCATION Fontana

NOTES

SAN BERNARDINO COUNTY

HYDROLOGY MANUAL

AREA - AVERAGED MASS RAINFALL PLOTTING SHEET

FIGURE E-8

APPENDIX B

HYDROLOGY CALCULATIONS

```
**************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
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            Ver. 8.0  Release Date: 01/01/99  License ID 1435

                          Analysis prepared by:

                            THIENES ENGINEERING
                          16800 VALLEY VIEW AVENUE
                             LA MIRADA CA 90638
                    PH: (714) 521-4811 FAX: (714) 521-4173

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 4110                                                        *
* EXISTING CONDITION                                                  *
* X100 100 YEAR EVENT                                                 *
 **********************************************************************

  FILE NAME: C:\XDRIVE\4110\X100.DAT
  TIME/DATE OF STUDY: 17:08 06/27/2022
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2700

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*


**************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   484.00
  ELEVATION DATA: UPSTREAM(FEET) =   1193.51  DOWNSTREAM(FEET) =   1188.51

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.995
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.966
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        2.58      0.80       0.10    52    8.99
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA RUNOFF(CFS) =      9.02
  TOTAL AREA(ACRES) =      2.58   PEAK FLOW RATE(CFS) =      9.02
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =      2.58  TC(MIN.) =      8.99
  EFFECTIVE AREA(ACRES) =      2.58  AREA-AVERAGED Fm(INCH/HR)=  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  PEAK FLOW RATE(CFS)   =      9.02
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS

1
```

```
**************************************************************************
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                          Analysis prepared by:

                            THIENES ENGINEERING
                          16800 VALLEY VIEW AVENUE
                             LA MIRADA CA 90638
                    PH: (714) 521-4811 FAX: (714) 521-4173

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 4110                                                        *
* EXISTING CONDTION                                                   *
* X110 100 YEAR EVENT                                                 *
 **********************************************************************

  FILE NAME: C:\XDRIVE\4110\X110.DAT
  TIME/DATE OF STUDY: 17:09 06/27/2022
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2700

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*


**************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   527.00
  ELEVATION DATA: UPSTREAM(FEET) =   1189.72  DOWNSTREAM(FEET) =   1187.43

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.066
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.502
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        1.99      0.80       0.10    52   11.07
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA RUNOFF(CFS) =      6.13
  TOTAL AREA(ACRES) =      1.99   PEAK FLOW RATE(CFS) =      6.13
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =      1.99  TC(MIN.) =     11.07
  EFFECTIVE AREA(ACRES) =      1.99  AREA-AVERAGED Fm(INCH/HR)=  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  PEAK FLOW RATE(CFS)   =      6.13
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS

1
```

```
**************************************************************************
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                          Analysis prepared by:

                            THIENES ENGINEERING
                          16800 VALLEY VIEW AVENUE
                             LA MIRADA CA 90638
                    PH: (714) 521-4811 FAX: (714) 521-4173

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 4110                                                        *
* EXISITNG CONDITION                                                  *
* X120 100 YEAR EVENT                                                 *
 **********************************************************************

  FILE NAME: C:\XDRIVE\4110\X120.DAT
  TIME/DATE OF STUDY: 17:12 06/27/2022
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2700

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*


**************************************************************************
  FLOW PROCESS FROM NODE    120.00 TO NODE    121.00 IS CODE =  21
--------------------------------------------------------------------------
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==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   486.00
  ELEVATION DATA: UPSTREAM(FEET) =   1187.93  DOWNSTREAM(FEET) =   1184.85

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   13.464
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.113
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap      SCS   Tc
       LAND USE             GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "3-4 DWELLINGS/ACRE"        A        1.00      0.80       0.60    52   13.46
  NATURAL POOR COVER
  "GRASS"                     A        0.98      0.29       1.00    85   17.16
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.48
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.80
  SUBAREA RUNOFF(CFS) =      4.86
  TOTAL AREA(ACRES) =      1.98   PEAK FLOW RATE(CFS) =      4.86
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =      1.98  TC(MIN.) =     13.46
  EFFECTIVE AREA(ACRES) =      1.98  AREA-AVERAGED Fm(INCH/HR)=  0.38
  AREA-AVERAGED Fp(INCH/HR) =  0.48  AREA-AVERAGED Ap =  0.80
  PEAK FLOW RATE(CFS)   =      4.86
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS

1
```

```
**************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
         (Reference: 1986 SAN BERNARDINO CO. HYDROLOGY CRITERION)
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            Ver. 8.0  Release Date: 01/01/99  License ID 1435

                          Analysis prepared by:

                            THIENES ENGINEERING
                          16800 VALLEY VIEW AVENUE
                             LA MIRADA CA 90638
                    PH: (714) 521-4811 FAX: (714) 521-4173

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 4110                                                        *
* EXISTING CONDTION (RUNOFF TO CITY CREEK)                            *
* X130 100 YEAR EVENT                                                 *
 **********************************************************************

  FILE NAME: C:\XDRIVE\4110\X130.DAT
  TIME/DATE OF STUDY: 09:53 07/01/2022
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2700

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*


**************************************************************************
  FLOW PROCESS FROM NODE    130.00 TO NODE    131.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   212.00
  ELEVATION DATA: UPSTREAM(FEET) =   1940.03  DOWNSTREAM(FEET) =   1189.68

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.640
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.69      0.80       0.10    52    5.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA RUNOFF(CFS) =      3.45
  TOTAL AREA(ACRES) =      0.69   PEAK FLOW RATE(CFS) =      3.45
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =      0.69  TC(MIN.) =      5.00
  EFFECTIVE AREA(ACRES) =      0.69  AREA-AVERAGED Fm(INCH/HR)=  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  PEAK FLOW RATE(CFS)   =      3.45
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS

1
```

```
**************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
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                          Analysis prepared by:

                            THIENES ENGINEERING
                          16800 VALLEY VIEW AVENUE
                             LA MIRADA CA 90638
                    PH: (714) 521-4811 FAX: (714) 521-4173

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 4110                                                        *
* EXISTING CONDTION                                                   *
* X140 100 YEAR EVENT                                                 *
 **********************************************************************

  FILE NAME: C:\XDRIVE\4110\X130.DAT
  TIME/DATE OF STUDY: 09:50 07/01/2022
==========================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==========================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.01
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2700

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*


**************************************************************************
  FLOW PROCESS FROM NODE    140.00 TO NODE    141.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==========================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   578.00
  ELEVATION DATA: UPSTREAM(FEET) =   1191.36  DOWNSTREAM(FEET) =   1185.80

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    9.795
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.768
```

```
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.60      0.80      0.10    52    9.80
  NATURAL POOR COVER
  "BARREN"                   A        0.68      0.14      1.00    93   16.92
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.19
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.58
  SUBAREA RUNOFF(CFS) =      4.21
  TOTAL AREA(ACRES) =      1.28   PEAK FLOW RATE(CFS) =      4.21

****************************************************************************
  FLOW PROCESS FROM NODE    141.00 TO NODE    142.00 IS CODE =  52
----------------------------------------------------------------------------
  >>>>>COMPUTE NATURAL VALLEY CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1185.80  DOWNSTREAM(FEET) =   1180.80
  CHANNEL LENGTH THRU SUBAREA(FEET) =   540.00   CHANNEL SLOPE =  0.0093
  CHANNEL FLOW THRU SUBAREA(CFS) =      4.21
  FLOW VELOCITY(FEET/SEC) =   1.95 (PER LACFCD/RCFC&WCD HYDROLOGY MANUAL)
  TRAVEL TIME(MIN.) =   4.61   Tc(MIN.) =  14.41
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    142.00 =  1118.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    132.00 TO NODE    132.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN) =  14.41
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  2.989
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.44      0.80      0.10    52
  NATURAL POOR COVER
  "BARREN"                   A        3.99      0.14      1.00    93
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.15
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.91
  SUBAREA AREA(ACRES) =    4.43      SUBAREA RUNOFF(CFS) =   11.38
  EFFECTIVE AREA(ACRES) =     5.71   AREA-AVERAGED Fm(INCH/HR) =  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.15  AREA-AVERAGED Ap =  0.84
  TOTAL AREA(ACRES) =     5.71       PEAK FLOW RATE(CFS) =      14.70
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =      5.71  TC(MIN.) =     14.41
  EFFECTIVE AREA(ACRES) =      5.71  AREA-AVERAGED Fm(INCH/HR)=  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.15  AREA-AVERAGED Ap =  0.84
  PEAK FLOW RATE(CFS)   =     14.70
============================================================================
```

```
******************************************************************************
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                        Analysis prepared by:

                          THIENES ENGINEERING
                        16800 VALLEY VIEW AVENUE
                          LA MIRADA CA 90638
                  PH: (714) 521-4811 FAX: (714) 521-4173

 ************************* DESCRIPTION OF STUDY *************************
* 27820 MEINES STREET                                                    *
* PROPOSED CONDITION                                                     *
* 100-YEAR                                                               *
 ************************************************************************

  FILE NAME: C:\XDRIVE\4110\4110A.DAT
  TIME/DATE OF STUDY: 14:41 07/19/2022
==============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
==============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *USER-DEFINED LOGARITHMIC INTERPOLATION USED FOR RAINFALL*

  SLOPE OF INTENSITY DURATION CURVE(LOG(I;IN/HR) vs. LOG(Tc;MIN)) = 0.6000
  USER SPECIFIED 1-HOUR INTENSITY(INCH/HOUR) = 1.2700

  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*


******************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    100.00 IS CODE =  22
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>>>>USE SPECIFIED Tc VALUE FOR INITIAL SUBAREA<<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    90.00
  USER SPECIFIED Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.640
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.23      0.80      0.10    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA RUNOFF(CFS) =      1.15
  TOTAL AREA(ACRES) =      0.23   PEAK FLOW RATE(CFS) =      1.15

******************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  31
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1180.99  DOWNSTREAM(FEET) =  1180.55
  FLOW LENGTH(FEET) =   176.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  12.0 INCH PIPE IS   6.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   2.51
  ESTIMATED PIPE DIAMETER(INCH) =  12.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      1.15
  PIPE TRAVEL TIME(MIN.) =   1.17    Tc(MIN.) =   6.17
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    101.00 =   266.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  81
------------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
  MAINLINE Tc(MIN) =   6.17
```

```
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.973
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.34      0.80      0.10    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA AREA(ACRES) =    0.34      SUBAREA RUNOFF(CFS) =    1.50
  EFFECTIVE AREA(ACRES) =     0.57   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =     0.57       PEAK FLOW RATE(CFS) =       2.51

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1180.54  DOWNSTREAM(FEET) =  1180.13
  FLOW LENGTH(FEET) =   166.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS   9.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.02
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      2.51
  PIPE TRAVEL TIME(MIN.) =   0.91    Tc(MIN.) =   7.08
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =   432.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN) =   7.08
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.577
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.35      0.80      0.10    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA AREA(ACRES) =    0.35      SUBAREA RUNOFF(CFS) =    1.42
  EFFECTIVE AREA(ACRES) =     0.92   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =     0.92       PEAK FLOW RATE(CFS) =       3.72

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1180.13  DOWNSTREAM(FEET) =  1179.85
  FLOW LENGTH(FEET) =   111.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.37
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      3.72
  PIPE TRAVEL TIME(MIN.) =   0.55    Tc(MIN.) =   7.63
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =   543.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN) =   7.63
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.377
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.23      0.80      0.10    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA AREA(ACRES) =    0.23      SUBAREA RUNOFF(CFS) =    0.89
  EFFECTIVE AREA(ACRES) =     1.15   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =     1.15       PEAK FLOW RATE(CFS) =       4.45
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1179.84  DOWNSTREAM(FEET) =  1179.57
  FLOW LENGTH(FEET) =   110.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  12.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.46
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      4.45
  PIPE TRAVEL TIME(MIN.) =   0.53    Tc(MIN.) =   8.16
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =   653.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN) =   8.16
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.204
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.34      0.80      0.10    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA AREA(ACRES) =    0.34      SUBAREA RUNOFF(CFS) =    1.26
  EFFECTIVE AREA(ACRES) =     1.49   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =     1.49       PEAK FLOW RATE(CFS) =       5.53

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1179.57  DOWNSTREAM(FEET) =  1179.15
  FLOW LENGTH(FEET) =   167.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  14.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.59
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      5.53
  PIPE TRAVEL TIME(MIN.) =   0.78    Tc(MIN.) =   8.94
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =   820.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN) =   8.94
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.981
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.23      0.80      0.10    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA AREA(ACRES) =    0.23      SUBAREA RUNOFF(CFS) =    0.81
  EFFECTIVE AREA(ACRES) =     1.72   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =     1.72       PEAK FLOW RATE(CFS) =       6.04

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    112.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1179.14  DOWNSTREAM(FEET) =  1178.39
  FLOW LENGTH(FEET) =   303.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  21.0 INCH PIPE IS  13.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.77
```

```
  ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      6.04
  PIPE TRAVEL TIME(MIN.) =   1.34    Tc(MIN.) =  10.28
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    112.00 =  1123.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =  10.28
  RAINFALL INTENSITY(INCH/HR) =   3.66
  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =    1.72
  TOTAL STREAM AREA(ACRES) =    1.72
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      6.04

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   187.00
  ELEVATION DATA: UPSTREAM(FEET) =   1192.41  DOWNSTREAM(FEET) =   1186.61

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.640
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp          Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.81      0.80      0.10    52    5.00
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA RUNOFF(CFS) =      4.05
  TOTAL AREA(ACRES) =      0.81   PEAK FLOW RATE(CFS) =      4.05

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1182.61  DOWNSTREAM(FEET) =  1178.39
  FLOW LENGTH(FEET) =     7.00   MANNING'S N =  0.012
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 12.000
  DEPTH OF FLOW IN  12.0 INCH PIPE IS   3.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  26.16
  ESTIMATED PIPE DIAMETER(INCH) =  12.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      4.05
  PIPE TRAVEL TIME(MIN.) =   0.00    Tc(MIN.) =   5.00
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    112.00 =   194.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   5.00
  RAINFALL INTENSITY(INCH/HR) =   5.64
  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =    0.81
  TOTAL STREAM AREA(ACRES) =    0.81
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      4.05

  ** CONFLUENCE DATA **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
```

```
 NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
    1      6.04  10.28    3.661  0.80( 0.08) 0.10     1.7     100.00
    2      4.05   5.00    5.637  0.80( 0.08) 0.10     0.8     110.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1      8.65  10.28    3.661  0.80( 0.08) 0.10     2.5     100.00
      2      8.62   5.00    5.637  0.80( 0.08) 0.10     1.6     110.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      8.65    Tc(MIN.) =    10.28
  EFFECTIVE AREA(ACRES) =     2.53   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =      2.53
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    112.00 =  1123.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    122.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1178.38  DOWNSTREAM(FEET) =  1177.12
  FLOW LENGTH(FEET) =   502.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  15.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.15
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      8.65
  PIPE TRAVEL TIME(MIN.) =   2.02    Tc(MIN.) =  12.29
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    122.00 =  1625.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    122.00 TO NODE    122.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =  12.29
  RAINFALL INTENSITY(INCH/HR) =   3.29
  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =    2.53
  TOTAL STREAM AREA(ACRES) =    2.53
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      8.65

****************************************************************************
  FLOW PROCESS FROM NODE    120.00 TO NODE    121.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   326.00
  ELEVATION DATA: UPSTREAM(FEET) =   1193.80  DOWNSTREAM(FEET) =   1184.06

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.210
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.953
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
        LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                  A        3.10      0.80      0.10    52    6.21
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA RUNOFF(CFS) =     13.60
  TOTAL AREA(ACRES) =      3.10   PEAK FLOW RATE(CFS) =     13.60

****************************************************************************
  FLOW PROCESS FROM NODE    121.00 TO NODE    122.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

```
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1180.06  DOWNSTREAM(FEET) =  1177.12
  FLOW LENGTH(FEET) =    24.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS   8.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  20.09
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     13.60
  PIPE TRAVEL TIME(MIN.) =   0.02    Tc(MIN.) =   6.23
  LONGEST FLOWPATH FROM NODE    120.00 TO NODE    122.00 =   350.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    122.00 TO NODE    122.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   6.23
  RAINFALL INTENSITY(INCH/HR) =   4.94
  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =    3.10
  TOTAL STREAM AREA(ACRES) =    3.10
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     13.60

  ** CONFLUENCE DATA **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1      8.65  12.29    3.288  0.80( 0.08) 0.10     2.5     100.00
      1      8.62   7.02    4.600  0.80( 0.08) 0.10     1.6     110.00
      2     13.60   6.23    4.943  0.80( 0.08) 0.10     3.1     120.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1     21.26   7.02    4.600  0.80( 0.08) 0.10     4.7     110.00
      2     17.62  12.29    3.288  0.80( 0.08) 0.10     5.6     100.00
      3     21.82   6.23    4.943  0.80( 0.08) 0.10     4.6     120.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     21.82    Tc(MIN.) =     6.23
  EFFECTIVE AREA(ACRES) =     4.56   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =      5.63
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    122.00 =  1625.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    122.00 TO NODE    123.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1177.12  DOWNSTREAM(FEET) =  1176.82
  FLOW LENGTH(FEET) =   120.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  21.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.20
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     21.82
  PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =   6.61
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    123.00 =  1745.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    122.00 TO NODE    123.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
  MAINLINE Tc(MIN) =   6.61
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.769
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.16      0.80      0.10    52
```

```
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA AREA(ACRES) =    1.16      SUBAREA RUNOFF(CFS) =    4.90
  EFFECTIVE AREA(ACRES) =     5.72   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =     6.79       PEAK FLOW RATE(CFS) =      24.15

****************************************************************************
  FLOW PROCESS FROM NODE    123.00 TO NODE    124.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1176.82  DOWNSTREAM(FEET) =  1176.53
  FLOW LENGTH(FEET) =   116.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  23.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.29
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     24.15
  PIPE TRAVEL TIME(MIN.) =   0.37    Tc(MIN.) =   6.98
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    124.00 =  1861.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    123.00 TO NODE    124.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN) =   6.98
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.617
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        1.44      0.80      0.10    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA AREA(ACRES) =    1.44      SUBAREA RUNOFF(CFS) =    5.88
  EFFECTIVE AREA(ACRES) =     7.16   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =     8.23       PEAK FLOW RATE(CFS) =      29.25

****************************************************************************
  FLOW PROCESS FROM NODE    124.00 TO NODE    125.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1176.52  DOWNSTREAM(FEET) =  1176.20
  FLOW LENGTH(FEET) =   130.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  25.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.54
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     29.25
  PIPE TRAVEL TIME(MIN.) =   0.39    Tc(MIN.) =   7.37
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    125.00 =  1991.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    124.00 TO NODE    125.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN) =   7.37
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.469
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        2.55      0.80      0.10    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA AREA(ACRES) =    2.55      SUBAREA RUNOFF(CFS) =   10.07
  EFFECTIVE AREA(ACRES) =     9.71   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =    10.78       PEAK FLOW RATE(CFS) =      38.36

****************************************************************************
  FLOW PROCESS FROM NODE    125.00 TO NODE    202.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1176.20  DOWNSTREAM(FEET) =  1175.46
  FLOW LENGTH(FEET) =   296.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.93
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     38.36
  PIPE TRAVEL TIME(MIN.) =   0.83    Tc(MIN.) =   8.20
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    202.00 =  2287.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    130.00 TO NODE    131.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   431.00
  ELEVATION DATA: UPSTREAM(FEET) =   1187.73  DOWNSTREAM(FEET) =   1182.61

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    8.350
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.146
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                 A        0.75      0.80      0.10    52    8.35
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA RUNOFF(CFS) =      2.75
  TOTAL AREA(ACRES) =      0.75   PEAK FLOW RATE(CFS) =      2.75

****************************************************************************
  FLOW PROCESS FROM NODE    131.00 TO NODE    132.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1178.61  DOWNSTREAM(FEET) =  1178.03
  FLOW LENGTH(FEET) =    15.00   MANNING'S N =  0.012
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO 12.000
  DEPTH OF FLOW IN  12.0 INCH PIPE IS   5.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.73
  ESTIMATED PIPE DIAMETER(INCH) =  12.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      2.75
  PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =   8.38
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    132.00 =   446.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    131.00 TO NODE    132.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN) =   8.38
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.138
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 A        0.20      0.80      0.10    52
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA AREA(ACRES) =    0.20      SUBAREA RUNOFF(CFS) =    0.73
  EFFECTIVE AREA(ACRES) =     0.95   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =     0.95       PEAK FLOW RATE(CFS) =       3.47

****************************************************************************
  FLOW PROCESS FROM NODE    132.00 TO NODE    142.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

```
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1178.02  DOWNSTREAM(FEET) =  1177.67
  FLOW LENGTH(FEET) =   137.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  10.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.34
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      3.47
  PIPE TRAVEL TIME(MIN.) =   0.68    Tc(MIN.) =   9.06
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    142.00 =   583.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    142.00 TO NODE    142.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   9.06
  RAINFALL INTENSITY(INCH/HR) =   3.95
  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =    0.95
  TOTAL STREAM AREA(ACRES) =    0.95
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      3.47

****************************************************************************
  FLOW PROCESS FROM NODE    140.00 TO NODE    141.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   238.00
  ELEVATION DATA: UPSTREAM(FEET) =   1187.00  DOWNSTREAM(FEET) =   1181.03

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.671
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.230
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS   Tc
        LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                  A        0.57      0.80      0.10    52    5.67
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.80
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.10
  SUBAREA RUNOFF(CFS) =      2.64
  TOTAL AREA(ACRES) =      0.57   PEAK FLOW RATE(CFS) =      2.64

****************************************************************************
  FLOW PROCESS FROM NODE    141.00 TO NODE    142.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1178.03  DOWNSTREAM(FEET) =  1177.67
  FLOW LENGTH(FEET) =    27.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  12.0 INCH PIPE IS   6.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.81
  ESTIMATED PIPE DIAMETER(INCH) =  12.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      2.64
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =   5.75
  LONGEST FLOWPATH FROM NODE    140.00 TO NODE    142.00 =   265.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    142.00 TO NODE    142.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =   5.75
  RAINFALL INTENSITY(INCH/HR) =   5.19
  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =    0.57
  TOTAL STREAM AREA(ACRES) =    0.57
```

```
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      2.64

  ** CONFLUENCE DATA **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1      3.47   9.06    3.948  0.80( 0.08) 0.10     0.9     130.00
      2      2.64   5.75    5.188  0.80( 0.08) 0.10     0.6     140.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1      5.47   9.06    3.948  0.80( 0.08) 0.10     1.5     130.00
      2      5.55   5.75    5.188  0.80( 0.08) 0.10     1.2     140.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =      5.55    Tc(MIN.) =     5.75
  EFFECTIVE AREA(ACRES) =     1.17   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =      1.52
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    142.00 =   583.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    142.00 TO NODE    202.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1177.67  DOWNSTREAM(FEET) =  1177.14
  FLOW LENGTH(FEET) =   215.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  21.0 INCH PIPE IS  12.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.70
  ESTIMATED PIPE DIAMETER(INCH) =  21.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      5.55
  PIPE TRAVEL TIME(MIN.) =   0.97    Tc(MIN.) =   6.72
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    202.00 =   798.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1      5.55   6.72    4.725  0.80( 0.08) 0.10     1.2     140.00
      2      5.47  10.07    3.706  0.80( 0.08) 0.10     1.5     130.00
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    202.00 =   798.00 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1     38.36   8.20    4.191  0.80( 0.08) 0.10     9.7     120.00
      2     36.68   9.02    3.959  0.80( 0.08) 0.10     9.9     110.00
      3     29.38  14.39    2.992  0.80( 0.08) 0.10    10.8     100.00
  LONGEST FLOWPATH FROM NODE      0.00 TO NODE    202.00 =     0.00 FEET.

  ** PEAK FLOW RATE TABLE **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1     41.04   6.72    4.725  0.80( 0.08) 0.10     9.1     140.00
      2     40.72  10.07    3.706  0.80( 0.08) 0.10    11.6     130.00
      3     43.88   8.20    4.191  0.80( 0.08) 0.10    11.0     120.00
      4     42.17   9.02    3.959  0.80( 0.08) 0.10    11.3     110.00
      5     33.77  14.39    2.992  0.80( 0.08) 0.10    12.3     100.00
    TOTAL AREA(ACRES) =     12.30

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       43.88  Tc(MIN.) =    8.203
  EFFECTIVE AREA(ACRES) =     11.04  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80  AREA-AVERAGED Ap =  0.10
  TOTAL AREA(ACRES) =     12.30
  LONGEST FLOWPATH FROM NODE    130.00 TO NODE    202.00 =   798.00 FEET.
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =   8.20
  RAINFALL INTENSITY(INCH/HR) =   4.19
  AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.80
  AREA-AVERAGED Ap =  0.10
  EFFECTIVE STREAM AREA(ACRES) =   11.04
  TOTAL STREAM AREA(ACRES) =   12.30
  PEAK FLOW RATE(CFS) AT CONFLUENCE =     43.88

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   946.00
  ELEVATION DATA: UPSTREAM(FEET) =   1190.91  DOWNSTREAM(FEET) =   1180.56

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =   11.626
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  3.400
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/       SCS SOIL   AREA      Fp         Ap     SCS   Tc
        LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  COMMERCIAL                  A        0.66      0.80      0.10    52   11.63
  NATURAL GOOD COVER
  "GRASS"                     A        0.47      0.72      1.00    58   35.76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.73
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.47
  SUBAREA RUNOFF(CFS) =      3.10
  TOTAL AREA(ACRES) =      1.13   PEAK FLOW RATE(CFS) =      3.10

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1178.26  DOWNSTREAM(FEET) =  1177.15
  FLOW LENGTH(FEET) =   446.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS  11.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.14
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      3.10
  PIPE TRAVEL TIME(MIN.) =   2.37    Tc(MIN.) =  13.99
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =  1392.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =  13.99
  RAINFALL INTENSITY(INCH/HR) =   3.04
  AREA-AVERAGED Fm(INCH/HR) =  0.35
  AREA-AVERAGED Fp(INCH/HR) =  0.73
  AREA-AVERAGED Ap =  0.47
  EFFECTIVE STREAM AREA(ACRES) =    1.13
  TOTAL STREAM AREA(ACRES) =    1.13
  PEAK FLOW RATE(CFS) AT CONFLUENCE =      3.10
```

```
  ** CONFLUENCE DATA **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1     41.04   6.72    4.725  0.80( 0.08) 0.10     9.1     140.00
      1     40.72  10.07    3.706  0.80( 0.08) 0.10    11.6     130.00
      1     43.88   8.20    4.191  0.80( 0.08) 0.10    11.0     120.00
      1     42.17   9.02    3.959  0.80( 0.08) 0.10    11.3     110.00
      1     33.77  14.39    2.992  0.80( 0.08) 0.10    12.3     100.00
      2      3.10  13.99    3.042  0.73( 0.35) 0.47     1.1     200.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1     43.46   6.72    4.725  0.78( 0.09) 0.12     9.7     140.00
      2     46.47   8.20    4.191  0.78( 0.09) 0.12    11.7     120.00
      3     44.86   9.02    3.959  0.78( 0.10) 0.12    12.0     110.00
      4     43.51  10.07    3.706  0.78( 0.10) 0.12    12.4     130.00
      5     36.82  14.39    2.992  0.78( 0.10) 0.13    13.4     100.00
      6     37.51  13.99    3.042  0.78( 0.10) 0.13    13.4     200.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     46.47    Tc(MIN.) =     8.20
  EFFECTIVE AREA(ACRES) =    11.70   AREA-AVERAGED Fm(INCH/HR) =  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.78  AREA-AVERAGED Ap =  0.12
  TOTAL AREA(ACRES) =     13.43
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =  1392.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1177.14  DOWNSTREAM(FEET) =  1176.97
  FLOW LENGTH(FEET) =    66.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN  42.0 INCH PIPE IS  32.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.88
  ESTIMATED PIPE DIAMETER(INCH) =  42.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     46.47
  PIPE TRAVEL TIME(MIN.) =   0.19    Tc(MIN.) =   8.39
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    203.00 =  1458.00 FEET.
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =     13.43  TC(MIN.) =      8.39
  EFFECTIVE AREA(ACRES) =     11.70  AREA-AVERAGED Fm(INCH/HR)=  0.09
  AREA-AVERAGED Fp(INCH/HR) =  0.78  AREA-AVERAGED Ap =  0.12
  PEAK FLOW RATE(CFS)   =     46.47

  ** PEAK FLOW RATE TABLE **
   STREAM     Q     Tc   Intensity   Fp(Fm)     Ap   Ae     HEADWATER
   NUMBER   (CFS) (MIN.) (INCH/HR) (INCH/HR)       (ACRES)    NODE
      1     43.46   6.90    4.647  0.78( 0.09) 0.12     9.7     140.00
      2     46.47   8.39    4.135  0.78( 0.09) 0.12    11.7     120.00
      3     44.86   9.21    3.910  0.78( 0.10) 0.12    12.0     110.00
      4     43.51  10.26    3.665  0.78( 0.10) 0.12    12.4     130.00
      5     37.51  14.19    3.017  0.78( 0.10) 0.13    13.4     200.00
      6     36.82  14.58    2.967  0.78( 0.10) 0.13    13.4     100.00
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS

1
```

APPENDIX C

DETENTION CALCULATIONS

JOB #4110
TRUCK YARD DETENTION VOLUME

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	∑ Volume (c.f.)	∑ Volume (ac-ft)	Discharge (cfs)
1184.06	0.00	0				
			213	213	0.00	13.2
1184.20	0.14	3,043				
			2,011	2,224	0.05	13.7
1184.40	0.34	17,066				
			5,307	7,531	0.17	14.3
1184.60	0.54	36,005				
			8,130	15,661	0.36	14.8
1184.80	0.74	45,298				
			9,536	25,197	0.58	15.2
1185.00	0.94	50,057				
			10,514	35,711	0.82	15.7
1185.20	1.14	55,080				
			11,546	47,257	1.08	16.2
1185.40	1.34	60,382				
			12,622	59,878	1.37	16.6
1185.60	1.54	65,835				
			13,716	73,594	1.69	17.0
1185.80	1.74	71,320				
			14,820	88,413	2.03	17.5
1186.00	1.94	76,875				

****

NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE (Fm)
AND LOW LOSS FRACTION ESTIMATIONS

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Analysis prepared by:

THIENES ENGINEERING
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*** NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE (Fm)
AND LOW LOSS FRACTION ESTIMATIONS FOR AMC III:

TOTAL 24-HOUR DURATION RAINFALL DEPTH = 6.00 (inches)

SOIL-COVER TYPE	AREA (Acres)	PERCENT OF PERVIOUS AREA	SCS CURVE NUMBER	LOSS RATE Fp(in./hr.)	YIELD
1	12.70	10.00	52.(32.)	0.742	0.886

TOTAL AREA (Acres) = 12.70

AREA-AVERAGED LOSS RATE, $\bar{F}m$ (in./hr.) = 0.074

AREA-AVERAGED LOW LOSS FRACTION, $\bar{Y}$ = 0.114
1

SMALL AREA UNIT HYDROGRAPH MODEL

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Analysis prepared by:

THIENES ENGINEERING
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RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
TOTAL CATCHMENT AREA(ACRES) = 10.78
SOIL-LOSS RATE, Fm,(INCH/HR) = 0.074
LOW LOSS FRACTION = 0.101
TIME OF CONCENTRATION(MIN.) = 7.40
RATIONAL METHOD PEAK FLOW RATE (DEFINED BY USER)
IS USED FOR SMALL AREA PEAK Q
USER SPECIFIED RAINFALL VALUES ARE USED
RETURN FREQUENCY(YEARS) = 100
5-MINUTE POINT RAINFALL VALUE(INCHES) = 0.47
30-MINUTE POINT RAINFALL VALUE(INCHES) = 0.95
1-HOUR POINT RAINFALL VALUE(INCHES) = 1.27
3-HOUR POINT RAINFALL VALUE(INCHES) = 2.00
6-HOUR POINT RAINFALL VALUE(INCHES) = 2.70
24-HOUR POINT RAINFALL VALUE(INCHES) = 6.00

TOTAL CATCHMENT RUNOFF VOLUME(ACRE-FEET) = 4.34
TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) = 1.05

TIME (HOURS)	VOLUME (AF)	Q (CFS)	0.	10.0	20.0	30.0	40.0
0.09	0.0047	1.26	.Q	.	.	.	.
0.21	0.0175	1.26	.Q	.	.	.	.
0.34	0.0304	1.26	.Q	.	.	.	.
0.46	0.0433	1.27	.Q	.	.	.	.
0.58	0.0562	1.27	.Q	.	.	.	.
0.71	0.0692	1.28	.Q	.	.	.	.
0.83	0.0822	1.28	.Q	.	.	.	.
0.95	0.0953	1.28	.Q	.	.	.	.
1.08	0.1084	1.29	.Q	.	.	.	.
1.20	0.1216	1.29	.Q	.	.	.	.
1.32	0.1348	1.30	.Q	.	.	.	.
1.45	0.1481	1.30	.Q	.	.	.	.
1.57	0.1614	1.31	.Q	.	.	.	.
1.69	0.1748	1.31	.Q	.	.	.	.
1.82	0.1882	1.32	.Q	.	.	.	.
1.94	0.2016	1.32	.Q	.	.	.	.
2.06	0.2151	1.33	.Q	.	.	.	.
2.19	0.2287	1.33	.Q	.	.	.	.
2.31	0.2423	1.34	.Q	.	.	.	.
2.43	0.2560	1.34	.Q	.	.	.	.
2.56	0.2697	1.35	.Q	.	.	.	.
2.68	0.2834	1.35	.Q	.	.	.	.
2.80	0.2973	1.36	.Q	.	.	.	.
2.93	0.3111	1.36	.Q	.	.	.	.
3.05	0.3251	1.37	.Q	.	.	.	.
3.17	0.3390	1.37	.Q	.	.	.	.
3.30	0.3531	1.38	.Q	.	.	.	.
3.42	0.3672	1.39	.Q	.	.	.	.
3.54	0.3813	1.39	.Q	.	.	.	.
3.67	0.3956	1.40	.Q	.	.	.	.
3.79	0.4098	1.40	.Q	.	.	.	.
3.91	0.4242	1.41	.Q	.	.	.	.
4.04	0.4386	1.42	.Q	.	.	.	.
4.16	0.4530	1.42	.Q	.	.	.	.
4.28	0.4675	1.43	.Q	.	.	.	.
4.41	0.4821	1.43	.Q	.	.	.	.

4.53	0.4968	1.44	.Q	.	.	.	.
4.65	0.5115	1.45	.Q	.	.	.	.
4.78	0.5263	1.46	.Q	.	.	.	.
4.90	0.5412	1.46	.Q	.	.	.	.
5.02	0.5561	1.47	.Q	.	.	.	.
5.15	0.5711	1.47	.Q	.	.	.	.
5.27	0.5861	1.48	.Q	.	.	.	.
5.39	0.6013	1.49	.Q	.	.	.	.
5.52	0.6165	1.50	.Q	.	.	.	.
5.64	0.6318	1.50	.Q	.	.	.	.
5.76	0.6472	1.51	.Q	.	.	.	.
5.89	0.6626	1.52	.Q	.	.	.	.
6.01	0.6781	1.53	.Q	.	.	.	.
6.13	0.6937	1.53	.Q	.	.	.	.
6.26	0.7094	1.54	.Q	.	.	.	.
6.38	0.7252	1.55	.Q	.	.	.	.
6.50	0.7410	1.56	.Q	.	.	.	.
6.63	0.7570	1.57	.Q	.	.	.	.
6.75	0.7730	1.58	.Q	.	.	.	.
6.87	0.7891	1.58	.Q	.	.	.	.
7.00	0.8053	1.60	.Q	.	.	.	.
7.12	0.8217	1.60	.Q	.	.	.	.
7.24	0.8381	1.62	.Q	.	.	.	.
7.37	0.8546	1.62	.Q	.	.	.	.
7.49	0.8711	1.63	.Q	.	.	.	.
7.61	0.8878	1.64	.Q	.	.	.	.
7.74	0.9046	1.66	.Q	.	.	.	.
7.86	0.9216	1.66	.Q	.	.	.	.
7.98	0.9386	1.68	.Q	.	.	.	.
8.11	0.9557	1.68	.Q	.	.	.	.
8.23	0.9729	1.70	.Q	.	.	.	.
8.35	0.9903	1.71	.Q	.	.	.	.
8.48	1.0077	1.72	.Q	.	.	.	.
8.60	1.0253	1.73	.Q	.	.	.	.
8.72	1.0430	1.75	.Q	.	.	.	.
8.85	1.0609	1.75	.Q	.	.	.	.
8.97	1.0789	1.77	.Q	.	.	.	.
9.09	1.0970	1.78	.Q	.	.	.	.
9.22	1.1152	1.80	.Q	.	.	.	.
9.34	1.1336	1.81	.Q	.	.	.	.
9.46	1.1521	1.83	.Q	.	.	.	.
9.59	1.1707	1.84	.Q	.	.	.	.
9.71	1.1896	1.86	.Q	.	.	.	.
9.83	1.2085	1.87	.Q	.	.	.	.
9.96	1.2276	1.89	.Q	.	.	.	.
10.08	1.2469	1.90	.Q	.	.	.	.
10.20	1.2664	1.92	.Q	.	.	.	.
10.33	1.2860	1.93	.Q	.	.	.	.
10.45	1.3058	1.96	.Q	.	.	.	.
10.57	1.3258	1.97	.Q	.	.	.	.
10.70	1.3460	1.99	.Q	.	.	.	.
10.82	1.3664	2.01	. Q	.	.	.	.
10.94	1.3870	2.03	. Q	.	.	.	.
11.07	1.4078	2.05	. Q	.	.	.	.
11.19	1.4288	2.08	. Q	.	.	.	.
11.31	1.4500	2.09	. Q	.	.	.	.
11.44	1.4715	2.12	. Q	.	.	.	.
11.56	1.4932	2.14	. Q	.	.	.	.
11.68	1.5152	2.17	. Q	.	.	.	.
11.81	1.5374	2.19	. Q	.	.	.	.
11.93	1.5599	2.23	. Q	.	.	.	.
12.05	1.5827	2.24	. Q	.	.	.	.
12.18	1.6029	1.72	.Q	.	.	.	.
12.30	1.6205	1.74	.Q	.	.	.	.
12.42	1.6385	1.79	.Q	.	.	.	.
12.55	1.6569	1.81	.Q	.	.	.	.
12.67	1.6756	1.86	.Q	.	.	.	.
12.79	1.6947	1.89	.Q	.	.	.	.
12.92	1.7142	1.94	.Q	.	.	.	.
13.04	1.7341	1.97	.Q	.	.	.	.
13.16	1.7545	2.03	. Q	.	.	.	.
13.29	1.7754	2.07	. Q	.	.	.	.
13.41	1.7968	2.14	. Q	.	.	.	.
13.53	1.8187	2.17	. Q	.	.	.	.
13.66	1.8413	2.26	. Q	.	.	.	.
13.78	1.8646	2.30	. Q	.	.	.	.
13.90	1.8885	2.40	. Q	.	.	.	.

14.03	1.9132	2.45	. Q . . . .
14.15	1.9382	2.45	. Q . . . .
14.27	1.9635	2.52	. Q . . . .
14.40	1.9899	2.66	. Q . . . .
14.52	2.0174	2.74	. Q . . . .
14.64	2.0462	2.92	. Q . . . .
14.77	2.0765	3.02	. Q . . . .
14.89	2.1084	3.26	. Q . . . .
15.01	2.1423	3.40	. Q . . . .
15.14	2.1787	3.73	. Q . . . .
15.26	2.2177	3.94	. Q . . . .
15.38	2.2605	4.46	. Q . . . .
15.51	2.3080	4.86	. Q . . . .
15.63	2.3625	5.82	. Q . . . .
15.75	2.4254	6.54	. Q . . . .
15.88	2.5049	9.06	. Q. . . .
16.00	2.6162	12.78	. . Q . . .
16.12	2.8770	38.40	. . . . Q .
16.25	3.1095	7.22	. Q . . . .
16.37	3.1732	5.28	. Q . . . .
16.49	3.2214	4.17	. Q . . . .
16.62	3.2608	3.55	. Q . . . .
16.74	3.2949	3.13	. Q . . . .
16.86	3.3252	2.82	. Q . . . .
16.99	3.3528	2.58	. Q . . . .
17.11	3.3785	2.47	. Q . . . .
17.23	3.4031	2.35	. Q . . . .
17.36	3.4264	2.21	. Q . . . .
17.48	3.4483	2.10	. Q . . . .
17.60	3.4692	2.00	. Q . . . .
17.73	3.4892	1.91	.Q . . . .
17.85	3.5083	1.83	.Q . . . .
17.97	3.5266	1.77	.Q . . . .
18.10	3.5453	1.90	.Q . . . .
18.22	3.5662	2.21	. Q . . . .
18.34	3.5884	2.15	. Q . . . .
18.47	3.6102	2.11	. Q . . . .
18.59	3.6314	2.06	. Q . . . .
18.71	3.6522	2.02	. Q . . . .
18.84	3.6726	1.98	.Q . . . .
18.96	3.6926	1.94	.Q . . . .
19.08	3.7122	1.91	.Q . . . .
19.21	3.7315	1.88	.Q . . . .
19.33	3.7505	1.85	.Q . . . .
19.45	3.7691	1.82	.Q . . . .
19.58	3.7875	1.79	.Q . . . .
19.70	3.8056	1.76	.Q . . . .
19.82	3.8235	1.74	.Q . . . .
19.95	3.8410	1.71	.Q . . . .
20.07	3.8584	1.69	.Q . . . .
20.19	3.8755	1.67	.Q . . . .
20.32	3.8924	1.65	.Q . . . .
20.44	3.9091	1.63	.Q . . . .
20.56	3.9256	1.61	.Q . . . .
20.69	3.9419	1.59	.Q . . . .
20.81	3.9580	1.57	.Q . . . .
20.93	3.9740	1.56	.Q . . . .
21.06	3.9898	1.54	.Q . . . .
21.18	4.0054	1.52	.Q . . . .
21.30	4.0208	1.51	.Q . . . .
21.43	4.0361	1.49	.Q . . . .
21.55	4.0512	1.48	.Q . . . .
21.67	4.0662	1.46	.Q . . . .
21.80	4.0811	1.45	.Q . . . .
21.92	4.0958	1.44	.Q . . . .
22.04	4.1104	1.42	.Q . . . .
22.17	4.1249	1.41	.Q . . . .
22.29	4.1392	1.40	.Q . . . .
22.41	4.1534	1.39	.Q . . . .
22.54	4.1675	1.38	.Q . . . .
22.66	4.1815	1.37	.Q . . . .
22.78	4.1954	1.36	.Q . . . .
22.91	4.2091	1.35	.Q . . . .
23.03	4.2228	1.34	.Q . . . .
23.15	4.2364	1.33	.Q . . . .
23.28	4.2498	1.32	.Q . . . .
23.40	4.2632	1.31	.Q . . . .

23.52	4.2764	1.30	.Q	.	.	.	.
23.65	4.2896	1.29	.Q	.	.	.	.
23.77	4.3027	1.28	.Q	.	.	.	.
23.89	4.3157	1.27	.Q	.	.	.	.
24.02	4.3286	1.26	.Q	.	.	.	.
24.14	4.3350	0.00	Q	.	.	.	.

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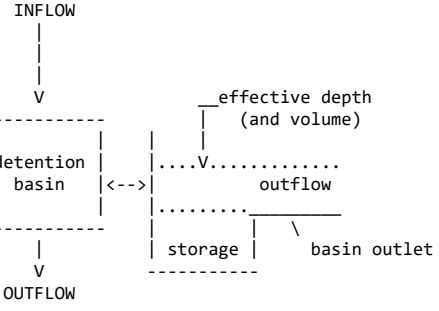
FLOW-THROUGH DETENTION BASIN MODEL

SPECIFIED BASIN CONDITIONS ARE AS FOLLOWS:
CONSTANT HYDROGRAPH TIME UNIT(MINUTES) = 7.400
DEAD STORAGE(AF) = 0.00
SPECIFIED DEAD STORAGE(AF) FILLED = 0.00
ASSUMED INITIAL DEPTH(FEET) IN STORAGE BASIN = 0.00



DEPTH-VS.-STORAGE AND DEPTH-VS.-DISCHARGE INFORMATION:
TOTAL NUMBER OF BASIN DEPTH INFORMATION ENTRIES = 10

*BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	**	BASIN-DEPTH (FEET)	STORAGE (ACRE-FEET)	OUTFLOW (CFS)	*
* 0.000	0.000	0.000	**	0.340	0.050	13.700	*
* 0.540	0.170	14.300	**	0.740	0.360	14.800	*
* 0.940	0.580	15.200	**	1.140	0.820	15.700	*
* 1.340	1.080	16.200	**	1.540	1.370	16.600	*
* 1.740	1.690	17.000	**	1.940	2.030	17.500	*

BASIN STORAGE, OUTFLOW AND DEPTH ROUTING VALUES:

INTERVAL NUMBER	DEPTH (FEET)	{S-O*DT/2} (ACRE-FEET)	{S+O*DT/2} (ACRE-FEET)
1	0.00	0.00000	0.00000
2	0.34	-0.01982	0.11982
3	0.54	0.09712	0.24288
4	0.74	0.28457	0.43543
5	0.94	0.50253	0.65747
6	1.14	0.73999	0.90001
7	1.34	0.99744	1.16256
8	1.54	1.28540	1.45460
9	1.74	1.60336	1.77664
10	1.94	1.94081	2.11919

WHERE S=STORAGE(AF);O=OUTFLOW(AF/MIN.);DT=UNIT INTERVAL(MIN.)

DETENTION BASIN ROUTING RESULTS:
NOTE: COMPUTED BASIN DEPTH, OUTFLOW, AND STORAGE QUANTITIES
OCCUR AT THE GIVEN TIME. BASIN INFLOW VALUES REPRESENT THE
AVERAGE INFLOW DURING THE RECENT HYDROGRAPH UNIT INTERVAL.

TIME (HRS)	DEAD-STORAGE FILLED(AF)	INFLOW (CFS)	EFFECTIVE DEPTH(FT)	OUTFLOW (CFS)	EFFECTIVE VOLUME(AF)
0.090	0.000	1.26	0.04	0.73	0.005
0.213	0.000	1.26	0.04	1.47	0.005
0.337	0.000	1.26	0.04	1.47	0.005
0.460	0.000	1.27	0.04	1.48	0.005
0.583	0.000	1.27	0.04	1.48	0.005
0.707	0.000	1.28	0.04	1.49	0.005
0.830	0.000	1.28	0.04	1.49	0.005
0.953	0.000	1.28	0.04	1.50	0.005

1.077	0.000	1.29	0.04	1.50	0.005
1.200	0.000	1.29	0.04	1.51	0.006
1.323	0.000	1.30	0.04	1.51	0.006
1.447	0.000	1.30	0.04	1.52	0.006
1.570	0.000	1.31	0.04	1.52	0.006
1.693	0.000	1.31	0.04	1.53	0.006
1.817	0.000	1.32	0.04	1.53	0.006
1.940	0.000	1.32	0.04	1.54	0.006
2.063	0.000	1.33	0.04	1.54	0.006
2.187	0.000	1.33	0.04	1.55	0.006
2.310	0.000	1.34	0.04	1.56	0.006
2.433	0.000	1.34	0.04	1.56	0.006
2.557	0.000	1.35	0.04	1.57	0.006
2.680	0.000	1.35	0.04	1.57	0.006
2.803	0.000	1.36	0.04	1.58	0.006
2.927	0.000	1.36	0.04	1.59	0.006
3.050	0.000	1.37	0.04	1.59	0.006
3.173	0.000	1.37	0.04	1.60	0.006
3.297	0.000	1.38	0.04	1.61	0.006
3.420	0.000	1.39	0.04	1.61	0.006
3.543	0.000	1.39	0.04	1.62	0.006
3.667	0.000	1.40	0.04	1.63	0.006
3.790	0.000	1.40	0.04	1.63	0.006
3.913	0.000	1.41	0.04	1.64	0.006
4.037	0.000	1.42	0.04	1.65	0.006
4.160	0.000	1.42	0.04	1.65	0.006
4.283	0.000	1.43	0.04	1.66	0.006
4.407	0.000	1.43	0.04	1.67	0.006
4.530	0.000	1.44	0.04	1.68	0.006
4.653	0.000	1.45	0.04	1.68	0.006
4.777	0.000	1.46	0.04	1.69	0.006
4.900	0.000	1.46	0.04	1.70	0.006
5.023	0.000	1.47	0.04	1.71	0.006
5.147	0.000	1.47	0.04	1.71	0.006
5.270	0.000	1.48	0.04	1.72	0.006
5.393	0.000	1.49	0.04	1.73	0.006
5.517	0.000	1.50	0.04	1.74	0.006
5.640	0.000	1.50	0.04	1.75	0.006
5.763	0.000	1.51	0.04	1.76	0.006
5.887	0.000	1.52	0.04	1.77	0.006
6.010	0.000	1.53	0.04	1.78	0.007
6.133	0.000	1.53	0.04	1.78	0.007
6.257	0.000	1.54	0.04	1.79	0.007
6.380	0.000	1.55	0.04	1.80	0.007
6.503	0.000	1.56	0.05	1.81	0.007
6.627	0.000	1.57	0.05	1.82	0.007
6.750	0.000	1.58	0.05	1.83	0.007
6.873	0.000	1.58	0.05	1.84	0.007
6.997	0.000	1.60	0.05	1.85	0.007
7.120	0.000	1.60	0.05	1.86	0.007
7.243	0.000	1.62	0.05	1.88	0.007
7.367	0.000	1.62	0.05	1.89	0.007
7.490	0.000	1.63	0.05	1.90	0.007
7.613	0.000	1.64	0.05	1.91	0.007
7.737	0.000	1.66	0.05	1.92	0.007
7.860	0.000	1.66	0.05	1.93	0.007
7.983	0.000	1.68	0.05	1.95	0.007
8.107	0.000	1.68	0.05	1.96	0.007
8.230	0.000	1.70	0.05	1.97	0.007
8.353	0.000	1.71	0.05	1.98	0.007
8.477	0.000	1.72	0.05	2.00	0.007
8.600	0.000	1.73	0.05	2.01	0.007
8.723	0.000	1.75	0.05	2.03	0.007
8.847	0.000	1.75	0.05	2.04	0.007
8.970	0.000	1.77	0.05	2.05	0.008
9.093	0.000	1.78	0.05	2.07	0.008
9.217	0.000	1.80	0.05	2.08	0.008
9.340	0.000	1.81	0.05	2.10	0.008
9.463	0.000	1.83	0.05	2.12	0.008
9.587	0.000	1.84	0.05	2.13	0.008
9.710	0.000	1.86	0.05	2.15	0.008
9.833	0.000	1.87	0.05	2.17	0.008
9.957	0.000	1.89	0.05	2.19	0.008
10.080	0.000	1.90	0.05	2.21	0.008
10.203	0.000	1.92	0.06	2.22	0.008
10.327	0.000	1.93	0.06	2.24	0.008
10.450	0.000	1.96	0.06	2.27	0.008

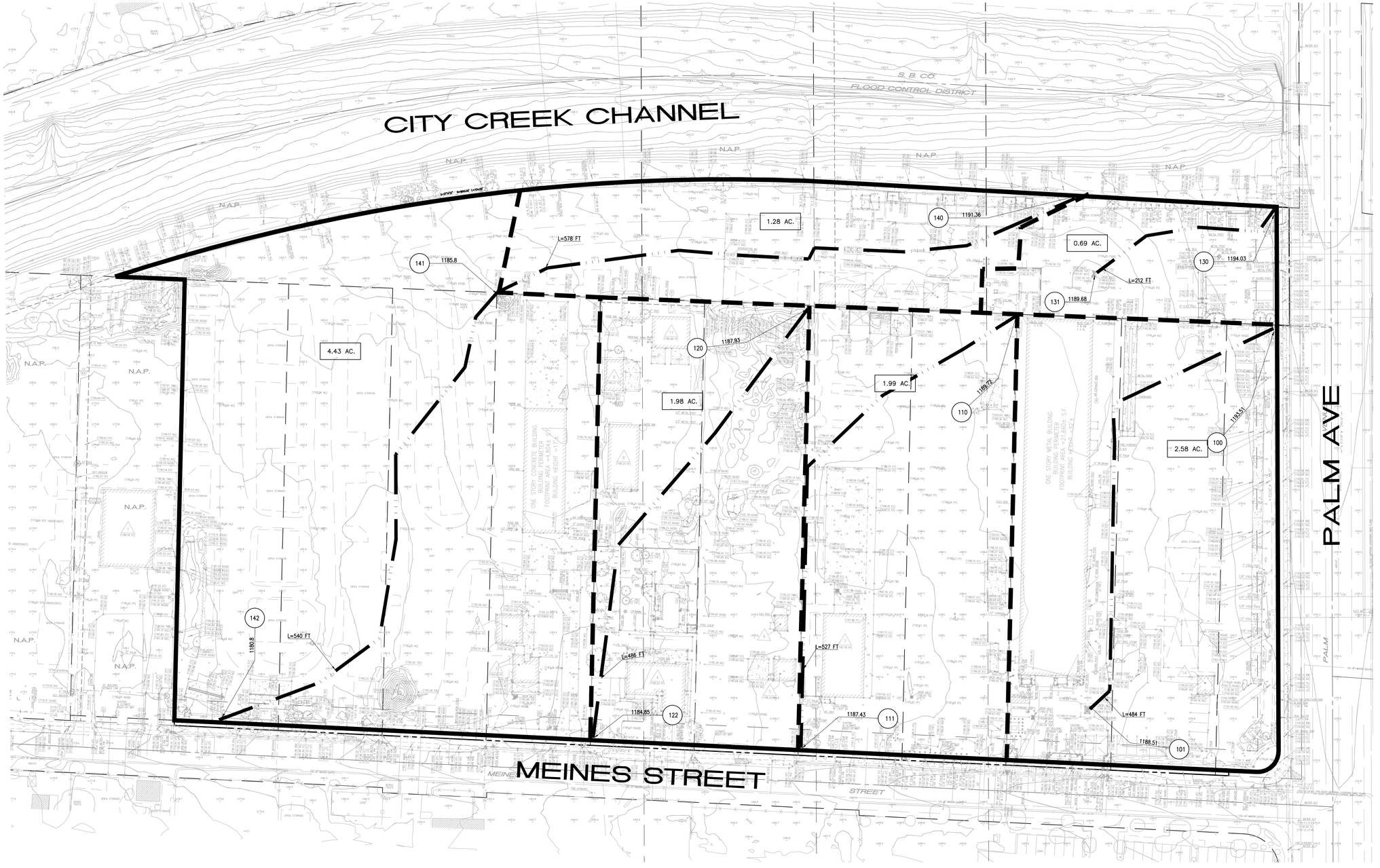
10.573	0.000	1.97	0.06	2.29	0.008
10.697	0.000	1.99	0.06	2.31	0.008
10.820	0.000	2.01	0.06	2.33	0.009
10.943	0.000	2.03	0.06	2.35	0.009
11.067	0.000	2.05	0.06	2.38	0.009
11.190	0.000	2.08	0.06	2.40	0.009
11.313	0.000	2.09	0.06	2.43	0.009
11.437	0.000	2.12	0.06	2.45	0.009
11.560	0.000	2.14	0.06	2.48	0.009
11.683	0.000	2.17	0.06	2.51	0.009
11.807	0.000	2.19	0.06	2.54	0.009
11.930	0.000	2.23	0.06	2.57	0.009
12.053	0.000	2.24	0.06	2.60	0.010
12.177	0.000	1.72	0.05	2.31	0.007
12.300	0.000	1.74	0.05	2.02	0.007
12.423	0.000	1.79	0.05	2.06	0.008
12.547	0.000	1.81	0.05	2.10	0.008
12.670	0.000	1.86	0.05	2.14	0.008
12.793	0.000	1.89	0.05	2.18	0.008
12.917	0.000	1.94	0.06	2.23	0.008
13.040	0.000	1.97	0.06	2.28	0.008
13.163	0.000	2.03	0.06	2.33	0.009
13.287	0.000	2.07	0.06	2.39	0.009
13.410	0.000	2.14	0.06	2.45	0.009
13.533	0.000	2.17	0.06	2.51	0.009
13.657	0.000	2.26	0.07	2.58	0.010
13.780	0.000	2.30	0.07	2.66	0.010
13.903	0.000	2.40	0.07	2.74	0.010
14.027	0.000	2.45	0.07	2.83	0.010
14.150	0.000	2.45	0.07	2.86	0.010
14.273	0.000	2.52	0.07	2.90	0.011
14.397	0.000	2.66	0.08	3.01	0.011
14.520	0.000	2.74	0.08	3.14	0.012
14.643	0.000	2.92	0.08	3.29	0.012
14.767	0.000	3.02	0.09	3.46	0.013
14.890	0.000	3.26	0.09	3.66	0.014
15.013	0.000	3.40	0.10	3.88	0.014
15.137	0.000	3.73	0.11	4.15	0.016
15.260	0.000	3.94	0.11	4.47	0.017
15.383	0.000	4.46	0.13	4.89	0.019
15.507	0.000	4.86	0.14	5.43	0.021
15.630	0.000	5.82	0.17	6.22	0.025
15.753	0.000	6.54	0.19	7.20	0.028
15.877	0.000	9.06	0.26	9.09	0.039
16.000	0.000	12.78	0.36	12.15	0.060
16.123	0.000	38.40	0.69	14.22	0.317
16.247	0.000	7.22	0.62	14.59	0.242
16.370	0.000	5.28	0.51	14.34	0.149
16.493	0.000	4.17	0.34	13.92	0.050
16.617	0.000	3.55	0.10	8.89	0.015
16.740	0.000	3.13	0.09	3.90	0.013
16.863	0.000	2.82	0.08	3.47	0.012
16.987	0.000	2.58	0.07	3.15	0.011
17.110	0.000	2.47	0.07	2.95	0.011
17.233	0.000	2.35	0.07	2.81	0.010
17.357	0.000	2.21	0.06	2.66	0.009
17.480	0.000	2.10	0.06	2.51	0.009
17.603	0.000	2.00	0.06	2.39	0.009
17.727	0.000	1.91	0.06	2.28	0.008
17.850	0.000	1.83	0.05	2.18	0.008
17.973	0.000	1.77	0.05	2.10	0.008
18.097	0.000	1.90	0.05	2.14	0.008
18.220	0.000	2.21	0.06	2.39	0.009
18.343	0.000	2.15	0.06	2.54	0.009
18.467	0.000	2.11	0.06	2.48	0.009
18.590	0.000	2.06	0.06	2.43	0.009
18.713	0.000	2.02	0.06	2.38	0.009
18.837	0.000	1.98	0.06	2.33	0.008
18.960	0.000	1.94	0.06	2.29	0.008
19.083	0.000	1.91	0.06	2.24	0.008
19.207	0.000	1.88	0.05	2.21	0.008
19.330	0.000	1.85	0.05	2.17	0.008
19.453	0.000	1.82	0.05	2.13	0.008
19.577	0.000	1.79	0.05	2.10	0.008
19.700	0.000	1.76	0.05	2.07	0.007
19.823	0.000	1.74	0.05	2.04	0.007
19.947	0.000	1.71	0.05	2.01	0.007

20.070	0.000	1.69	0.05	1.98	0.007
20.193	0.000	1.67	0.05	1.96	0.007
20.317	0.000	1.65	0.05	1.93	0.007
20.440	0.000	1.63	0.05	1.91	0.007
20.563	0.000	1.61	0.05	1.89	0.007
20.687	0.000	1.59	0.05	1.86	0.007
20.810	0.000	1.57	0.05	1.84	0.007
20.933	0.000	1.56	0.04	1.82	0.007
21.057	0.000	1.54	0.04	1.80	0.007
21.180	0.000	1.52	0.04	1.78	0.006
21.303	0.000	1.51	0.04	1.77	0.006
21.427	0.000	1.49	0.04	1.75	0.006
21.550	0.000	1.48	0.04	1.73	0.006
21.673	0.000	1.46	0.04	1.71	0.006
21.797	0.000	1.45	0.04	1.70	0.006
21.920	0.000	1.44	0.04	1.68	0.006
22.043	0.000	1.42	0.04	1.67	0.006
22.167	0.000	1.41	0.04	1.65	0.006
22.290	0.000	1.40	0.04	1.64	0.006
22.413	0.000	1.39	0.04	1.63	0.006
22.537	0.000	1.38	0.04	1.61	0.006
22.660	0.000	1.37	0.04	1.60	0.006
22.783	0.000	1.36	0.04	1.59	0.006
22.907	0.000	1.35	0.04	1.57	0.006
23.030	0.000	1.34	0.04	1.56	0.006
23.153	0.000	1.33	0.04	1.55	0.006
23.277	0.000	1.32	0.04	1.54	0.006
23.400	0.000	1.31	0.04	1.53	0.006
23.523	0.000	1.30	0.04	1.52	0.006
23.647	0.000	1.29	0.04	1.51	0.005
23.770	0.000	1.28	0.04	1.50	0.005
23.893	0.000	1.27	0.04	1.49	0.005
24.017	0.000	1.26	0.04	1.48	0.005
24.140	0.000	0.00	0.00	0.74	0.000

1

APPENDIX D

HYDROLOGY MAP



LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- FLOW PATH
- 1.00 AC. — SUBAREA AREA
- 1000.00 TO 100 — NODE DESCRIPTION

SOIL A
RAIN FALL 100 YEAR
1 HOUR = 1.27"
6 HOUR = 2.7"
24 HOUR = 6.0"

Last Update: 7/8/22
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COUNTY OF SAN BERNARDINO
PUBLIC WORKS DEPARTMENT

EXISTING CONDITION HYDROLOGY MAP
27820 MEINES STREET HIGHLAND, CA

4110/1 OF 1 SHEET

PREPARED FOR:
LOVETT INDUSTRIAL
1730 E HOLLY AVENUE
EL SEGUNDO, CA 90245
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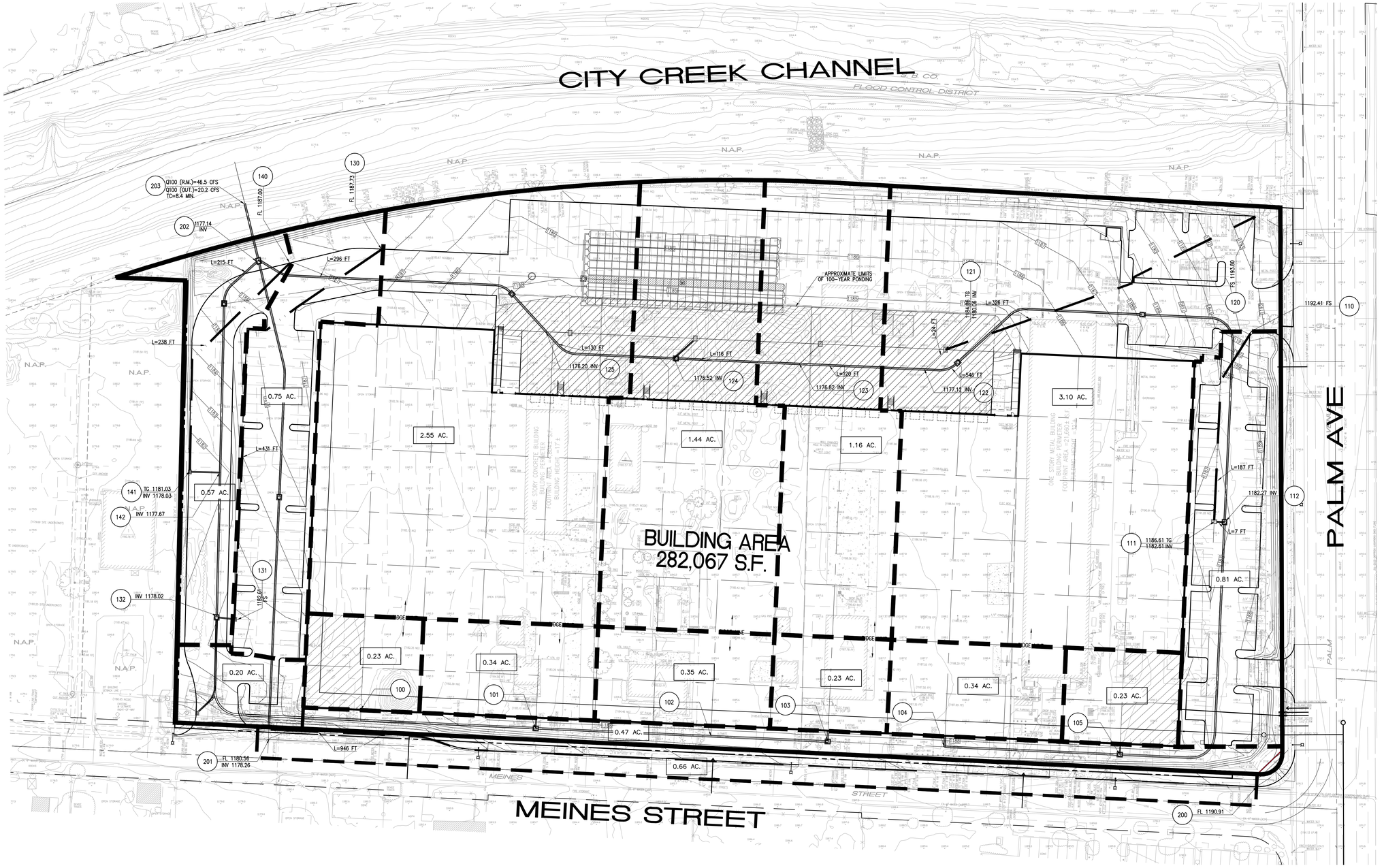
Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____
Public Works Director _____ R.C.E. _____
Sheet 1 of 1 Sheets



0 20 40 80 120

SCALE:1"=40

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- FLOW PATH
- 1.00 AC. — SUBAREA AREA
- 1000.00 / 10 — 100 — NODE DESCRIPTION

SOIL A
RAIN FALL 100 YEAR
1 HOUR = 1.27"
6 HOUR = 2.7"
24 HOUR = 6.0"

Last Update: 7/19/22
D:\4100-4199\4110\4110HYD.dwg

COUNTY OF SAN BERNARDINO
PUBLIC WORKS DEPARTMENT

PROPOSED CONDITION HYDROLOGY MAP
27820 MEINES STREET HIGHLAND, CA

4110/1 OF 1 SHEET

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Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____
Public Works Director _____ R.C.E. _____
Sheet 1 of 1 Sheets

Appendix I

Acoustical Assessment

Acoustical Assessment
Meines Street and Palm Avenue Warehouse
City of Highland, California

Prepared by:

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Orange, California 92868
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714.705.1343

May 2023

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Appendix A: Noise Data

LIST OF ABBREVIATED TERMS

APN	Assessor's Parcel Number
ADT	Average daily traffic
dBA	A-weighted sound level
CEQA	California Environmental Quality Act
CLSP	California Landings Specific Plan
CSMA	California Subdivision Map Act
CNEL	Community equivalent noise level
L_{dn}	Day-night noise level
dB	Decibel
L_{eq}	Equivalent noise level
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
HVAC	Heating ventilation and air conditioning
Hz	Hertz
HOA	Homeowner's association
in/sec	Inches per second
L_{max}	Maximum noise level
µPa	Micropascals
L_{min}	Minimum noise level
PPV	Peak particle velocity
RMS	Root mean square
HMC	City of Highland Municipal Code
VdB	Vibration velocity level

1 INTRODUCTION

This report documents the results of an Acoustical Assessment completed for the Meines Street and Palm Avenue Warehouse ("Project" or "proposed Project"). The purpose of this Acoustical Assessment is to evaluate the potential construction and operational noise associated with the Project and determine the level of impact the Project would have on the environment.

1.1 Project Location

The proposed Project is located at the northwest corner of Meines Street and Palm Avenue in the City of Highland, California (City). The proposed site consists of 14 parcels (APN 1192-601-05, -09, and -43; 1192-621-02 through -08, and -20 through -23) on 12.8 acres. Currently, the site is used for industrial and non-conforming single-family residential uses. The Project site is relatively flat and has elevations ranging from approximately 1,175 to 1,193 feet above mean sea level (amsl). The site's topographic slightly slopes down to the west.

The Project site is bounded by the City Creek stormwater channel to the north, Palm Avenue to the east, Meines Street to the south, and an industrial lot to the west. In addition, the proposed Project is located approximately 1.2-mile northeast of the San Bernardino International Airport (SBIA).

Local access to the Project site is provided via Meines Street and Palm Avenue. The nearest major freeways to the site include Interstate 210 (I-210), located approximately 0.55-mile to the east and Interstate 10 (I-10), located approximately 2.86 miles to the south of the site; refer to Exhibit 1: Regional Vicinity Map and Exhibit 2: Site Vicinity Map.

1.2 Project Description

The Project proposes the development of single new industrial concrete tilt-up dock high warehouse building totaling 284,917 square feet, including 5,000 square feet of office space and 3,000 feet of mezzanine space. The structure will be supported by a screened truck yard, vehicular parking areas, tractor-trailer storage stalls, drive aisles, and landscaped areas. On-site improvements will include storm drains, stormwater/water quality treatment facilities (including underground infiltration chambers), sewer (including a private lift station), water, and dry utility systems. Additionally, minor onsite slopes and deepened building panels will be utilized. Vehicular access to the Project site will be provided by two new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site. The Project provides a total of 240 parking spaces that includes 47 trailer stalls, 159 standard auto stalls, and 34 compact auto stalls. Refer to Exhibit 3: Site Plan for further Project details.

The Project would increase onsite impermeable areas as a result of the construction of a 284,917-SF warehouse building and parking areas. However, the Project would also create a storm drain connection to the existing channel near the northwest corner of the Project site.

Project Phasing

The Project is anticipated to be developed in one phase. Construction activity is anticipated to occur over a duration of approximately 10 months, beginning in October 2023.

General Plan Land Use and Zoning Designations

As designated by the City's Development Code, the Project site has a General Plan land use designation of Industrial (I) and a Zoning designation of Industrial (I). As such, the Project is anticipated to be consistent with the existing land use and zoning.

Site Access

Local access to the Project site is provided via Meines Street, which traverses the south of the site in a west-east direction, Palm Avenue that traverses east of the site in a north-south direction. Regional access to the Project site is via the W 5th Street off-ramp from I-210. The Project would include two (2) new 40 foot-wide and 26-foot-wide driveways off Palm Avenue and one new 40-foot-wide driveway off Meines Street. The Project also proposes a 40-foot-wide internal driveway which would provide vehicular access throughout the Project site.

Walls and Fences

The Project would include the following walls and fences on-site:

- An 8-foot-high metal fence would be located along the northwestern, northeastern, and western boundaries of the Project site;
- A 10-foot-high screen wall would run along the northern property line and would also surround the truck trailer parking and loading dock area in the northern portion of the site; and
- Two 8-foot-high metal gates would border the western and eastern boundaries of the truck loading area in the northern portion of the site.

Parking

The Project proposes to provide a total of 240 parking spaces that include 159 standard parking stalls (9 feet by 19 feet), 34 compact auto stalls (9 feet by 14 feet), and 47 trailer parking stalls (10 feet by 53 feet). Trailer stalls would be positioned along the northern Project boundary to the north of the loading dock area. The proposed auto standard parking stalls would be provided along the northeast, east, and west portions of the site.

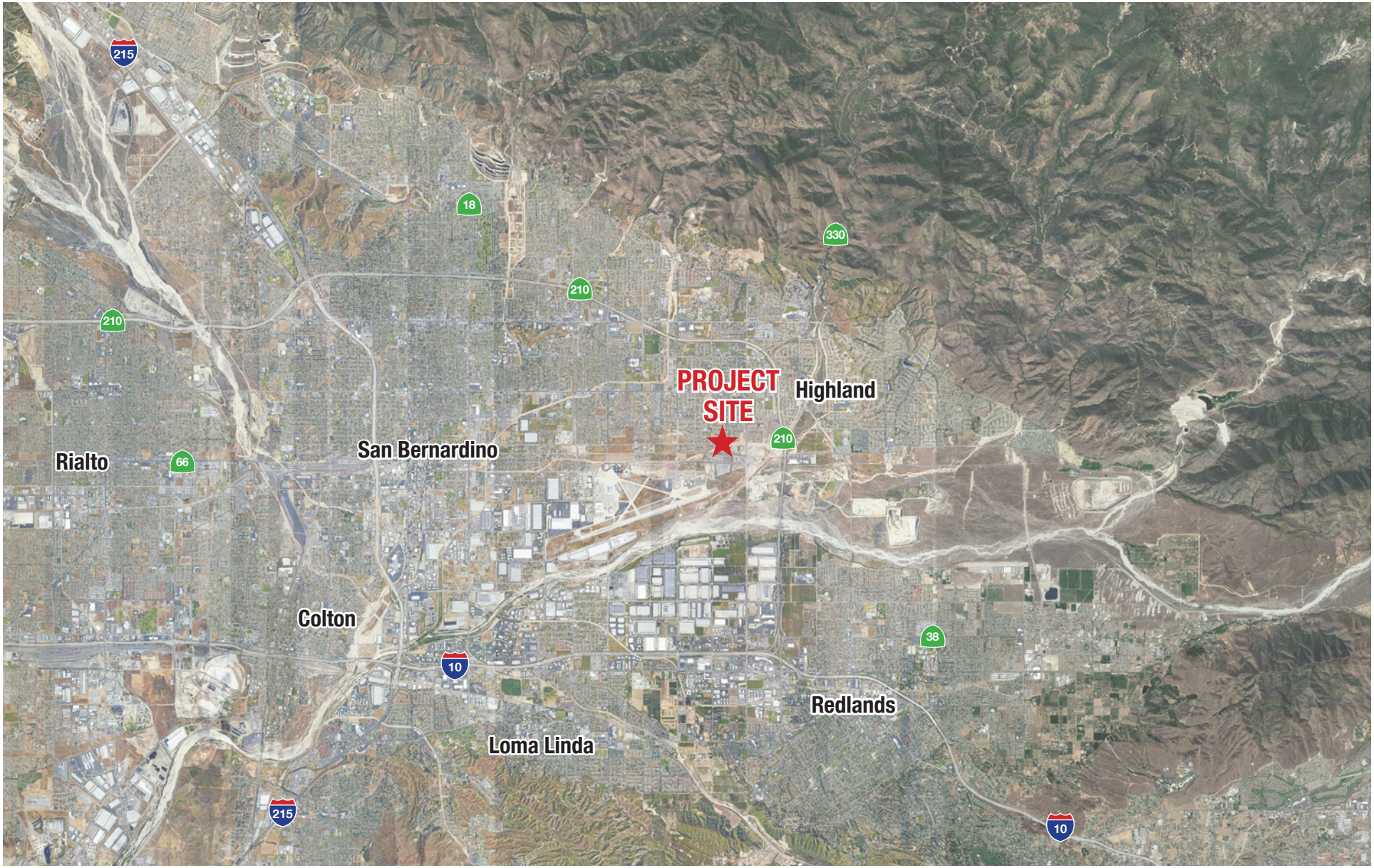

EXHIBIT 1: Regional Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

Kimley»Horn
Expect More. Experience Better.

EXHIBIT 2: Site Vicinity Map
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

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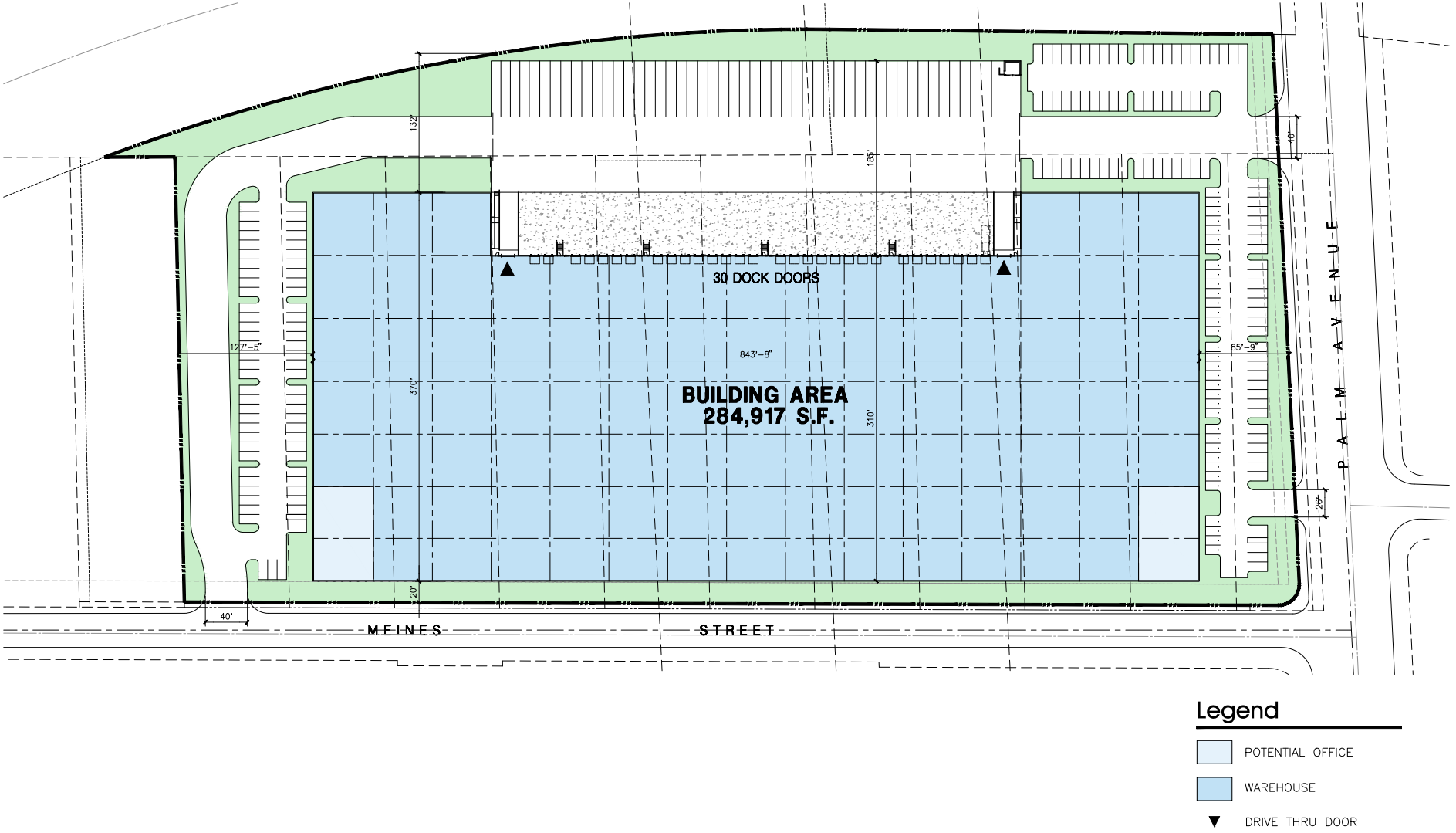

EXHIBIT 3: Site Plan

Meines Street and Palm Avenue Warehouse Project

City of Highland

Not to Scale

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2 ACOUSTIC FUNDAMENTALS

2.1 Sound and Environmental Noise

Acoustics is the science of sound. Sound can be described as the mechanical energy of a vibrating object transmitted by pressure waves through a medium (e.g. air) to human (or animal) ear. If the pressure variations occur frequently enough (at least 20 times per second), they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound and is expressed as cycles per second, or hertz (Hz).

Noise is defined as loud, unexpected, or annoying sound. In acoustics, the fundamental model consists of a noise source, a receptor, and the propagation path between the two. The loudness of the noise source, obstructions, or atmospheric factors affecting the propagation path, determine the perceived sound level and noise characteristics at the receptor. Acoustics deal primarily with the propagation and control of sound. A typical noise environment consists of a base of steady background noise that is the sum of many distant and indistinguishable noise sources. Superimposed on this background noise is the sound from individual local sources. These sources can vary from an occasional aircraft or train passing by to continuous noise from traffic on a major highway. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a large range of numbers. To avoid this, the decibel (dB) scale was devised. The dB scale uses the hearing threshold of 20 micro-pascals (µPa) as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The dB scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels correspond closely to human perception of relative loudness. Table 1: Typical Noise Levels provides typical noise levels.

Table 1: Typical Noise Levels

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	– 110 –	Rock Band
Jet fly-over at 1,000 feet		
	– 100 –	
Gas lawnmower at 3 feet		
	– 90 –	
Diesel truck at 50 feet at 50 miles per hour		Food blender at 3 feet
	– 80 –	Garbage disposal at 3 feet
Noisy urban area, daytime		
Gas lawnmower, 100 feet	**– 70 –**	Vacuum cleaner at 10 feet
Commercial area		Normal Speech at 3 feet
Heavy traffic at 300 feet	**– 60 –**	
		Large business office
Quiet urban daytime	**– 50 –**	Dishwasher in next room
Quiet urban nighttime	**– 40 –**	Theater, large conference room (background)
Quiet suburban nighttime		
	– 30 –	Library
Quiet rural nighttime		Bedroom at night, concert hall (background)
	– 20 –	
		Broadcast/recording studio
	– 10 –	
Lowest threshold of human hearing	**– 0 –**	Lowest threshold of human hearing

Source: California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol*, September 2013.

Noise Descriptors

The dB scale alone does not adequately characterize how humans perceive noise. The dominant frequencies of a sound have a substantial effect on the human response to that sound. Several rating scales have been developed to analyze the adverse effect of community noise on people. Because environmental noise fluctuates over time, these scales consider that the effect of noise on people is largely dependent on the total acoustical energy content of the noise, as well as the time of day when the noise occurs. The equivalent noise level (L_{eq}) represents the equivalent continuous sound pressure level over the measurement period, while the day-night noise level (L_{dn}) and Community Equivalent Noise Level (CNEL) are measures of sound energy during a 24-hour period, with dB weighted sound levels from 7:00 p.m. to 7:00 a.m. Most commonly, environmental sounds are described in terms of L_{eq} that has the same acoustical energy as the summation of all the time-varying events. Each is applicable to this analysis and defined in Table 2: Definitions of Acoustical Terms.

Table 2: Definitions of Acoustical Terms

Term	Definitions
Decibel (dB)	A unit describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure. The reference pressure for air is 20.
Sound Pressure Level	Sound pressure is the sound force per unit area, usually expressed in µPa (or 20 micronewtons per square meter), where 1 pascal is the pressure resulting from a force of 1 newton exerted over an area of 1 square meter. The sound pressure level is expressed in dB as 20 times the logarithm to the base 10 of the ratio between the pressures exerted by the sound to a reference sound pressure (e.g., 20 µPa). Sound pressure level is the quantity that is directly measured by a sound level meter.
Frequency (Hz)	The number of complete pressure fluctuations per second above and below atmospheric pressure. Normal human hearing is between 20 Hz and 20,000 Hz. Infrasonic sound are below 20 Hz and ultrasonic sounds are above 20,000 Hz.
A-Weighted Sound Level (dBA)	The sound pressure level in dB as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Equivalent Noise Level (L_{eq})	The average acoustic energy content of noise for a stated period of time. Thus, the L_{eq} of a time-varying noise and that of a steady noise are the same if they deliver the same acoustic energy to the ear during exposure. For evaluating community impacts, this rating scale does not vary, regardless of whether the noise occurs during the day or the night.
Maximum Noise Level (L_{max}) Minimum Noise Level (L_{min})	The maximum and minimum dBA during the measurement period.
Exceeded Noise Levels (L_{01}, L_{10}, L_{50}, L_{90})	The dBA values that are exceeded 1%, 10%, 50%, and 90% of the time during the measurement period.
Day-Night Noise Level (L_{dn})	A 24-hour average L_{eq} with a 10-dBA weighting added to noise during the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity at nighttime. The logarithmic effect of these additions is that a 60 dBA 24-hour L_{eq} would result in a measurement of 66.4 dBA L_{dn}.
Community Noise Equivalent Level (CNEL)	A 24-hour average L_{eq} with a 5-dBA weighting during the hours of 7:00 a.m. to 10:00 p.m. and a 10-dBA weighting added to noise during the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity in the evening and nighttime, respectively. The logarithmic effect of these additions is that a 60 dBA 24-hour L_{eq} would result in a measurement of 66.7 dBA CNEL.
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
Intrusive	That noise which intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends on its amplitude, duration, frequency, and time of occurrence and tonal or informational content as well as the prevailing ambient noise level.

Source: Compiled from Caltrans, *Technical Noise Supplement to the Caltrans Traffic Noise Analysis Protocol*, September 2013; Cyril M. Harris, *Handbook of Noise Control*, 1979; Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018.

The A-weighted decibel (dBA) sound level scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. Because sound levels can vary markedly over a short period of time, a method for describing either the average character of the sound or the statistical behavior of the variations must be utilized. Most commonly, environmental sounds are described in terms of an average level that has the same acoustical energy as the summation of all the time-varying events.

The scientific instrument used to measure noise is the sound level meter. Sound level meters can accurately measure environmental noise levels to within about plus or minus 1 dBA. Various computer models are used to predict environmental noise levels from sources, such as roadways and airports. The accuracy of the predicted models depends on the distance between the receptor and the noise source.

A-Weighted Decibels

The perceived loudness of sounds is dependent on many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable and can be approximated by dBA values. There is a strong correlation between dBA and the way the human ear perceives sound. For this reason, the dBA has become the standard tool of environmental noise assessment. All noise levels reported in this document are in terms of dBA, but are expressed as dB, unless otherwise noted.

Addition of Decibels

The dB scale is logarithmic, not linear, and therefore sound levels cannot be added or subtracted through ordinary arithmetic. Two sound levels 10 dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic dB is A-weighted, an increase of 10 dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound and twice as loud as a 60-dBA sound.[1] When two identical sources are each producing sound of the same loudness, the resulting sound level at a given distance would be 3 dBA higher than one source under the same conditions.[2] Under the dB scale, three sources of equal loudness together would produce an increase of approximately 5 dBA.

Sound Propagation and Attenuation

Sound spreads (propagates) uniformly outward in a spherical pattern, and the sound level decreases (attenuates) at a rate of approximately 6 dB for each doubling of distance from a stationary or point source. Sound from a line source, such as a highway, propagates outward in a cylindrical pattern. Sound levels attenuate at a rate of approximately 3 dB for each doubling of distance from a line source, such as a roadway, depending on ground surface characteristics.[3] No excess attenuation is assumed for hard surfaces like a parking lot or a body of water. Soft surfaces, such as soft dirt or grass, can absorb sound, so an excess ground-attenuation value of 1.5 dB per doubling of distance is normally assumed.

Noise levels may also be reduced by intervening structures; generally, a single row of buildings between the receptor and the noise source reduces the noise level by about 5 dBA, while a solid wall or berm

1 Federal Highway Administration, *Noise Fundamentals,* 2017, https://www.fhwa.dot.gov/environMent/noise/regulations_and_guidance/polguide/polguide02.cfm, accessed April 24, 2023.

2 Ibid.

3 California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol*, Page 2-29, September 2013.

reduces noise levels by 5 to 10 dBA.[4] The way older homes in California were constructed generally provides a reduction of exterior-to-interior noise levels of about 20 to 25 dBA with closed windows.

Human Response to Noise

The human response to environmental noise is subjective and varies considerably from individual to individual. Noise in the community has often been cited as a health problem, not in terms of actual physiological damage, such as hearing impairment, but in terms of inhibiting general well-being and contributing to undue stress and annoyance. The health effects of noise in the community arise from interference with human activities, including sleep, speech, recreation, and tasks that demand concentration or coordination. Hearing loss can occur at the highest noise intensity levels.

Noise environments and consequences of human activities are usually well represented by median noise levels during the day or night or over a 24-hour period. Environmental noise levels are generally considered low when the CNEL is below 60 dBA, moderate in the 60 to 70 dBA range, and high above 70 dBA. Examples of low daytime levels are isolated, natural settings with noise levels as low as 20 dBA and quiet, suburban, residential streets with noise levels around 40 dBA.[5] Noise levels above 45 dBA at night can disrupt sleep. Examples of moderate-level noise environments are urban residential or semi-commercial areas (typically 55 to 60 dBA) and commercial locations (typically 60 dBA). People may consider louder environments adverse, but most will accept the higher levels associated with noisier urban residential or residential-commercial areas (60 to 75 dBA) or dense urban or industrial areas (65 to 80 dBA). Regarding increases in dBA, the following relationships should be noted:[6]

- Except in carefully controlled laboratory experiments, a 1-dBA change cannot be perceived by humans.
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference.
- A minimum 5-dBA change is required before any noticeable change in community response would be expected. A 5-dBA increase is typically considered substantial.
- A 10-dBA change is subjectively heard as an approximate doubling in loudness and would almost certainly cause an adverse change in community response.

Effects of Noise on People

Hearing Loss. While physical damage to the ear from an intense noise impulse is rare, a degradation of auditory acuity can occur even within a community noise environment. Hearing loss occurs mainly due to chronic exposure to excessive noise but may be due to a single event such as an explosion. Natural hearing loss associated with aging may also be accelerated from chronic exposure to loud noise. The Occupational Safety and Health Administration has a noise exposure standard that is set at the noise threshold where hearing loss may occur from long-term exposures. The maximum allowable level is 90 dBA averaged over 8 hours. If the noise is above 90 dBA, the allowable exposure time is correspondingly shorter.

[4] James P. Cowan, *Handbook of Environmental Acoustics,* 1994.
[5] James P. Cowan, *Handbook of Environmental Acoustics,* 1994 and Cyril M. Harris, Handbook of Noise Control, 1979.
[6] California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol*, September 2013, and FHWA, *Noise Fundamentals,* 2017.

Annoyance. Attitude surveys are used for measuring the annoyance felt in a community for noises intruding into homes or affecting outdoor activity areas. In these surveys, it was determined that causes for annoyance include interference with speech, radio and television, house vibrations, and interference with sleep and rest. The L_{dn} as a measure of noise has been found to provide a valid correlation of noise level and the percentage of people annoyed. People have been asked to judge the annoyance caused by aircraft noise and ground transportation noise. There continues to be disagreement about the relative annoyance of these different sources. A noise level of about 55 dBA L_{dn} is the threshold at which a substantial percentage of people begin to report annoyance.[7]

2.2 Ground-Borne Vibration

Sources of ground-borne vibrations include natural phenomena (earthquakes, volcanic eruptions, sea waves, landslides, etc.) or man-made causes (explosions, machinery, traffic, trains, construction equipment, etc.). Vibration sources may be continuous (e.g., factory machinery) or transient (e.g., explosions or heavy equipment use during construction). Ground vibration consists of rapidly fluctuating motions or waves with an average motion of zero. Several different methods are typically used to quantify vibration amplitude. One is vibration decibels (VdB) (the vibration velocity level in decibel scale). Other methods are the peak particle velocity (PPV) and the root mean square (RMS) velocity. The PPV is defined as the maximum instantaneous positive or negative peak of the vibration wave. The RMS velocity is defined as the average of the squared amplitude of the signal. The PPV and RMS vibration velocity amplitudes are used to evaluate human response to vibration.

Table 3: Human Reaction and Damage to Buildings for Continuous or Frequent Intermittent Vibrations, displays the reactions of people and the effects on buildings produced by continuous vibration levels. The annoyance levels shown in the table should be interpreted with care since vibration may be found to be annoying at much lower levels than those listed, depending on the level of activity or the sensitivity of the individual. To sensitive individuals, vibrations approaching the threshold of perception can be annoying. Low-level vibrations frequently cause irritating secondary vibration, such as a slight rattling of windows, doors, or stacked dishes. The rattling sound can give rise to exaggerated vibration complaints, even though there is very little risk of actual structural damage. In high noise environments, which are more prevalent where ground-borne vibration approaches perceptible levels, this rattling phenomenon may also be produced by loud airborne environmental noise causing induced vibration in exterior doors and windows.

Ground vibration can be a concern in instances where buildings shake, and substantial rumblings occur. However, it is unusual for vibration from typical urban sources such as buses and heavy trucks to be perceptible. Common sources for ground-borne vibration are planes, trains, and construction activities such as earthmoving which requires the use of heavy-duty earth moving equipment. For the purposes of this analysis, a PPV descriptor with units of inches per second (in/sec) is used to evaluate construction-generated vibration for building damage and human complaints.

[7] Federal Interagency Committee on Noise, *Federal Agency Review of Selected Airport Noise Analysis Issues*, August 1992.

Table 3: Human Reaction and Damage to Buildings for Continuous or Frequent Intermittent Vibrations

Maximum PPV (in/sec)	Vibration Annoyance Potential Criteria	Vibration Damage Potential Threshold Criteria	FTA Vibration Damage Criteria
0.008	--	Extremely fragile historic buildings, ruins, ancient monuments	--
0.01	Barely Perceptible	--	--
0.04	Distinctly Perceptible	--	--
0.1	Strongly Perceptible	Fragile buildings	--
0.12	--	--	Buildings extremely susceptible to vibration damage
0.2	--	--	Non-engineered timber and masonry buildings
0.25	--	Historic and some old buildings	--
0.3	--	Older residential structures	Engineered concrete and masonry (no plaster)
0.4	Severe	--	--
0.5	--	New residential structures, Modern industrial/commercial buildings	Reinforced-concrete, steel or timber (no plaster)

PPV = peak particle velocity; in/sec = inches per second; FTA = Federal Transit Administration

Source: California Department of Transportation, *Transportation and Construction Vibration Guidance Manual*, 2020 and Federal Transit administration, *Transit Noise and Vibration Assessment Manual*, 2018.

3 REGULATORY SETTING

To limit population exposure to physically or psychologically damaging as well as intrusive noise levels, the Federal government, the State of California, various county governments, and most municipalities in the state have established standards and ordinances to control noise.

3.1 State of California

California Government Code

California Government Code Section 65302(f) mandates that the legislative body of each county and city adopt a noise element as part of its comprehensive general plan. The local noise element must recognize the land use compatibility guidelines established by the State Department of Health Services. The guidelines rank noise land use compatibility in terms of "normally acceptable", "conditionally acceptable", "normally unacceptable", and "clearly unacceptable" noise levels for various land use types. Single-family homes are "normally acceptable" in exterior noise environments up to 60 CNEL and "conditionally acceptable" up to 70 CNEL. Multiple-family residential uses are "normally acceptable" up to 65 CNEL and "conditionally acceptable" up to 70 CNEL. Schools, libraries, and churches are "normally acceptable" up to 70 CNEL, as are office buildings and business, commercial, and professional uses.

Title 24 – Building Code

The State's noise insulation standards are codified in the California Code of Regulations, Title 24: Part 1, Building Standards Administrative Code, and Part 2, California Building Code. These noise standards are applied to new construction in California for interior noise compatibility from exterior noise sources. The regulations specify that acoustical studies must be prepared when noise-sensitive structures, such as residential buildings, schools, or hospitals, are located near major transportation noise sources, and where such noise sources create an exterior noise level of 65 dBA CNEL or higher. Acoustical studies that accompany building plans must demonstrate that the structure has been designed to limit interior noise in habitable rooms to acceptable noise levels. For new multi-family residential and non-residential buildings, the acceptable interior noise limit for new construction is 45 dBA CNEL.

3.2 Local

City of Highland General Plan

The City of Highland General Plan (General Plan) Noise Element (Chapter 7) identifies several policies to minimize the impacts of excessive noise levels throughout the community. The Noise Element provides policy guidance which addresses the generation, mitigation, avoidance, and the control of excessive noise. The noise policies specified in the Noise Element provide the guidelines necessary to satisfy these goals. The City of Highland Noise Control Ordinance (Chapter 8.50 of the Development Code) and the Noise Element specify the maximum acceptable levels of noise for residential uses in the City. These standards indicate that exterior noise levels at residential locations should not exceed a CNEL of 60 dBA from 7:00 a.m. to 10:00 p.m. and 55 dBA from while interior levels shall not exceed an annual CNEL of 45 dB in any habitable room. The following presents the goals and policies for noise related issues in the City of Highland:

Goal 3.6 **Provide a circulation system that reduces conflicts between commercial trucking, private/public transportation and land use.**

Policy 3.6.1 Develop berms and barriers where feasible along truck routes to minimize noise impacts to sensitive land uses.

Policy 3.6.8 Require as a part of the development review process for all new or expanding mineral extraction and all other heavy industry activities within the City, that the following information be provided: "…a detailed plan of haul roads, indicating measurements that will be taken to minimize aesthetic, noise, traffic, and particulate emission impacts to the surrounding land uses…"

Goal 6.7 **Reduce risk to people and property by limiting the type and intensity of development within identified aircraft potential zones and ensure adequate public notification of aircraft activities to residents in overflight areas.**

Policy 6.7.3 Require letters of advisement incorporating information in Conditions, Covenants and Restrictions (CCRs) or Real Estate Disclosures, which report where projects occur within the projected 65 Community Noise Equivalent (CNEL) and established Airport Influence Areas (AIA).

Goal 7.1: **Protect sensitive land uses and the citizens of Highland from annoying and excessive noise through diligent planning and regulations.**

Policy 7.1.2: Encourage the use of site planning and architectural techniques such as alternative building orientation and walls combined with landscaping to mitigate noise to levels consistent with interior and exterior noise standards.

Policy 7.1.3: Require mitigation where sensitive uses are to be placed along transportation routes to ensure compliance with interior and exterior noise standards.

Policy 7.1.7: Require that site-specific noise studies be conducted by a qualified acoustic consultant utilizing acceptable methodologies while reviewing the development of sensitive land uses or development that has the potential to impact sensitive land uses. Also require a site-specific noise study if the proposed development could potentially violate the noise provisions of the General Plan or City ordinance.

Goal 7.2: **Encourage the reduction of noise from transportation-related noise sources such as automobile and truck traffic.**

Policy 7.2.2: Employ noise mitigation practices, as necessary, when designing future streets and highways, and when improvements occur along existing road segments. Mitigation measures should emphasize the establishment of natural buffers or setbacks between the arterial roadways and adjoining noise-sensitive areas.

Policy 7.2.19: Require that development generating increased traffic and subsequent increases in the ambient noise level adjacent to noise sensitive land uses provide appropriate mitigation measures.

Policy 7.2.19: Minimize truck traffic through residential neighborhoods.

Goal 7.3: Protect residents from the negative effects of "spill over" or nuisance noise.

Policy 7.3.2: Prohibit new industrial uses from exceeding commercial or residential stationary-source noise standards at the most proximate land uses, as appropriate. (Industrial noise may spill over to proximate industrial uses so long as the combined noise does not exceed the appropriate industrial standards.).

Policy 7.3.3: Require that construction activities employ feasible and practical techniques to minimize noise impacts on adjacent uses. Particular emphasis shall be placed on the restriction of hours in which work other than emergency work may occur.

Policy 7.3.4: Require that the hours of truck deliveries to commercial properties abutting residential uses be limited unless there is no feasible alternative or there are overriding transportation benefits by scheduling deliveries at another hour.

Policy 7.3.5: Ensure that buildings are constructed to prevent adverse noise transmission between differing uses located in the same structure and individual residences in multi-family buildings.

Action 7.3.1: As a condition of approval, limit non-emergency construction activities adjacent to existing noise-sensitive uses to daylight hours between 7:00 a.m. and 6:00 p.m. Discourage construction on weekends or holidays except in the case of construction proximate to schools where these operations could disturb the classroom environment.

Goal 10.13 Appropriately buffer the boundaries between differing land uses and provide transitions where necessary.

Policy 10.13.1 Encourage the use of landscaped walls or fences that buffer residential areas from commercial uses to allow privacy and noise absorption.

Goal 11.1 Reduce exposure of people to aircraft noise and overflights and ensure adequate public notification through buyer awareness measures.

Policy 11.1.1 Limit the development of sensitive land uses located within the 65 decibel (dB) Community Noise Equivalent Level (CNEL) contour.

Policy 11.1.2 Require acoustical analysis and noise mitigation measures for sensitive land uses, especially residential uses, in areas significantly impacted by noise.

Policy 11.1.3 Ensure compliance of new development with noise standards in the Code of Federal Regulations and California Airport Noise Regulations.

Policy 11.1.4 Ensure adherence to standards in the California Building Code (CBC) that govern acceptable interior noise levels associated with exterior airport noise sources.

General Plan Table 7.3 provides noise criteria to evaluate the land use compatibility of transportation-related noise; see Exhibit 4: Land Use Compatibility for Community Noise Exposure. The compatibility criteria indicate that residential land uses for residential low-density single-family dwellings, duplexes, and mobile homes are considered normally acceptable below 60 dBA L_{dn} and conditionally acceptable with noise levels less than 70 dBA L_{dn}. Residential land uses for multi-family dwellings are considered normally acceptable below 65 dBA L_{dn} and conditionally acceptable with noise levels less than 70 dBA L_{dn}.

General Plan Table 7-3 identifies a maximum allowable exterior noise level of 60 dBA CNEL and an interior noise level limit of 45 dBA CNEL for new residential developments; see Table 4: City of Highland Interior Noise Standards and Table 5: City of Highland Exterior Noise Standards. The City identifies exterior noise level limits for residential, agricultural/equestrian, commercial, manufacturing or industrial, and open space uses and identifies interior noise level limits for residential, educational/churches/other institutional uses, general offices, retail stores/restaurants, manufacturing/warehousing, agricultural, and sand/gravel operations.

Table 4: City of Highland Interior Noise Standards

Type of Land Use	CNEL (dBA)
Residential	45
Educational/churches, other institutional uses	45
General offices	50
Retail stores, restaurants	55
Manufacturing, warehousing	65
Agricultural	55
Sand and Gravel Operations	75

Source: City of Highland, *General Plan Noise Element, Table 7.1.*

Table 5: City of Highland Exterior Noise Standards

Type of Land Use	Time Interval	CNEL (dBA)
Residential	10:00 p.m. – 7:00 a.m.	55
	7:00 a.m. – 10:00 p.m.	60
Agricultural/Equestrian	10:00 p.m. – 7:00 a.m.	60
	7:00 a.m. – 10:00 p.m.	65
Commercial	10:00 p.m. – 7:00 a.m.	65
	7:00 a.m. – 10:00 p.m.	70
Manufacturing or Industrial	Any Time	75
Open Space	Any Time	75

Source: City of Highland, *General Plan Noise Element, Table 7.2.*

Exhibit 4: Land Use Compatibility for Community Noise Exposure

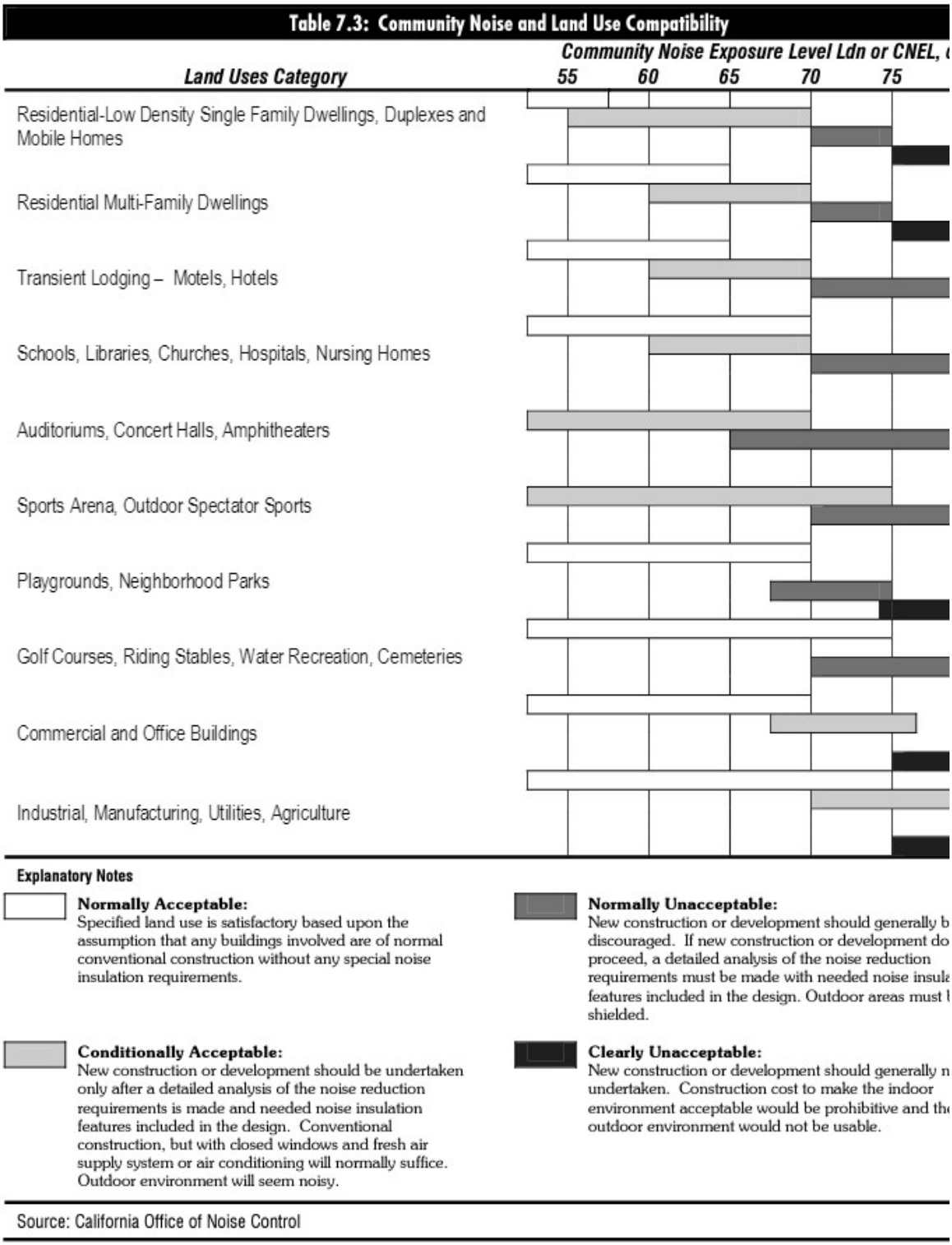


Table 7.3: Community Noise and Land Use Compatibility

Land Uses Category	Community Noise Exposure Level Ldn or CNEL, d 55	60	65	70	75
Residential-Low Density Single Family Dwellings, Duplexes and Mobile Homes					
Residential Multi-Family Dwellings					
Transient Lodging – Motels, Hotels					
Schools, Libraries, Churches, Hospitals, Nursing Homes					
Auditoriums, Concert Halls, Amphitheaters					
Sports Arena, Outdoor Spectator Sports					
Playgrounds, Neighborhood Parks					
Golf Courses, Riding Stables, Water Recreation, Cemeteries					
Commercial and Office Buildings					
Industrial, Manufacturing, Utilities, Agriculture					

Explanatory Notes

Normally Acceptable:
Specified land use is satisfactory based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.

Normally Unacceptable:
New construction or development should generally b discouraged. If new construction or development do proceed, a detailed analysis of the noise reduction requirements must be made with needed noise insula features included in the design. Outdoor areas must b shielded.

Conditionally Acceptable:
New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply system or air conditioning will normally suffice. Outdoor environment will seem noisy.

Clearly Unacceptable:
New construction or development should generally n undertaken. Construction cost to make the indoor environment acceptable would be prohibitive and the outdoor environment would not be usable.

Source: California Office of Noise Control

Source: City of Highland, *General Plan Noise Element, Table 7.3, 2012.*

City of Highland Municipal Code

Operational Noise Standards

Pursuant to Chapter 8.50 (Noise Control) of the City's Municipal Code, allowable daytime (7:00 a.m. and 10:00 p.m.) and nighttime (10:00 p.m. and 7:00 a.m.) noise levels are as follows:

- Residential: 60 dBA daytime, 55 dBA nighttime
- Commercial: 70 dBA daytime, 65 dBA nighttime
- Industrial: 75 dBA at any time

Construction Noise Standards

The City of Highland Municipal Code (HMC) Noise Control Ordinance (Chapter 8.50) includes regulations to control the negative effects of nuisance noise, but it does not identify specific exterior noise level limits. HMC § 8.50.050 states that no person shall be engaged in construction and operation-related activities, including operation of domestic power tools, electrically operated compressors, pile drivers, ground vehicles, etc., except within the hours of 5:00 a.m. and 10:00 p.m. on any day in the industrial (I) zone, and between the hours of 7:00 a.m. and 10:00 p.m. in all other zones. While the City establishes limits to the hours during which construction activity may take place, it does not identify specific noise level limits for construction noise levels. The following activities are unlawful for any person to engage in at a time other than between the areas:

HMC § 8.50.050 specifically states that it shall be unlawful for any person to engage in the following activities at a time other than between 5:00 a.m. and 10:00 p.m. on any day in the industrial (I) zone, and between the hours of 7:00 a.m. and 10:00 p.m. on any day in all other zones:

A. Operate or permit the use of powered model vehicles and planes.

B. Load or unload any vehicle, or operate or permit the use of dollies, carts, forklifts, or other wheeled equipment that causes any impulsive sound, raucous or unnecessary noise within 1,000 feet of a residence.

C. Operate or permit the use of domestic power tools, machinery, or any other equipment or tool in any garage, workshop, house or any other structure.

D. Operate or permit the use of gasoline or electric-powered leaf blowers such as commonly used by gardeners and other persons for cleaning lawns, yards, driveways, gutters and other property.

E. Operate or permit the use of privately operated street/parking lot sweepers or vacuums, except that emergency work and/or work necessitated by unusual conditions may be performed with the written consent of the code enforcement officer.

F. Operate or permit the use of electrically operated compressor(s), fan(s) and other similar device(s).

G. Operate or permit the use of pile driver(s), steam or gasoline shovel(s), pneumatic hammer(s), steam or electric hoist(s) or other similar device(s).

H. Perform ground maintenance on golf course grounds and tennis courts contiguous to golf courses that creates a noise disturbance across a residential or commercial property line.

I. Operate or permit the use of any motor vehicle with a gross vehicle weight rating in excess of 10,000 pounds, or of any auxiliary equipment attached to such a vehicle, including but not limited to refrigerated truck compressors, for a period longer than 15 minutes in any hour while the vehicle is stationary and on a public right-of-way or public space, except when movement of said vehicle is restricted by other traffic.

J. Repair, rebuild, reconstruct or dismantle any motor vehicle or other mechanical equipment or device(s) in a manner so as to be plainly audible across property lines.

K. Load, unload, open, close or otherwise handle garbage cans, recycling bins or other similar objects between the hours of 10:00 p.m. and 7:00 a.m. the following morning, except city-permitted trash collection. (Ord. 352 § 1, 2010; Ord. 324 § 2, 2008).

HMC § 8.50.060 states that the following Project-applicable activities are exempt from the provisions of Chapter 8.50 – Noise Control of the HMC:

- Those noise events in the community (e.g., airport noise, arterial traffic noise, railroad noise) that are more accurately measured by application of the general plan noise element policy, utilizing the community noise equivalent level (CNEL) method.

- Warning devices necessary for the protection of the public safety, including, but not limited to, police, fire and ambulance sirens and train horns and sounds for the purpose of alerting persons to the existence of an emergency.

4 EXISTING CONDITIONS

4.1 Existing Noise Sources

As the City of Highland has developed and expanded its boundaries over time, there are numerous areas of the City that are impacted by noise. For instance, many residences are located near industrial areas or adjacent to busy streets or rail lines.

Highland is affected by several different sources of noise, including automobile, rail, and air traffic, sports events, commercial and industrial activity, and periodic nuisances such as construction. Excessive levels of noise can damage our physical health, psychological stability, social cohesion, property values, and economic productivity. The control of noise, therefore, is an essential component in creating a safe, compatible, and productive environment.

Mobile Sources

Existing roadway noise levels were calculated for the roadway segments in the Project vicinity. This task was accomplished using the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model (FHWA-RD-77-10) and existing traffic volumes from the Project Traffic Study (prepared by Kimley-Horn, DATE 2023). The noise prediction model calculates the average noise level at specific locations based on traffic volumes, average speeds, roadway geometry, and site environmental conditions. The average vehicle noise rates (also referred to as energy rates) used in the FHWA model have been modified to reflect average vehicle noise rates identified for California by the California Department of Transportation (Caltrans). The Caltrans data indicates that California automobile noise is 0.8 to 1.0 dBA higher than national levels and that medium and heavy truck noise is 0.3 to 3.0 dBA lower than national levels.

The average daily noise levels along roadway segments in proximity to the project are included in Table 6: Existing Traffic Noise Levels. Table 6 shows the existing traffic-generated noise level on Project-vicinity roadways currently ranges from 51.4 dBA CNEL to 68.3 dBA CNEL 100 feet from the centerline. As previously described, CNEL is 24-hour average noise level with a 5 dBA "weighting" during the hours of 7:00 a.m. to 10:00 p.m. and a 10 dBA "weighting" added to noise during the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity in the evening and nighttime, respectively.

Table 6: Existing Traffic Noise Levels

Roadway	Roadway Segment	ADT	dBA CNEL 100 Feet from Roadway Centerline
Palm Avenue	Meines Street to 5th Street	15,810	64.5
	5th Street to 3rd Street	18,320	67.6
Meines Street	West of Palm Avenue	640	51.4
5th Street	Palm Avenue to Church Avenue	21,170	68.3
	Church Avenue to SR-210 EB Ramps at 5th Street	21,670	68.3
3rd Street	Palm Avenue to Church Avenue	700	56.7

ADT = average daily trips; dBA = A-weighted decibels; CNEL = community noise equivalent level

Source: Based on traffic data within the Project Traffic Study, prepared by Kimley-Horn, March 2023. Refer to Appendix B: Noise Modeling Data for traffic noise modeling assumptions and results.

Stationary Sources

Stationary Sources

The nearest sources of stationary noise in the Project vicinity are generated by existing single-family residential properties to the north, south, and west, and industrial uses to the east, south, west, and at the Project site. Noise sources from residential uses typically include mechanical equipment such as HVAC, automobile related noise such as cars starting and doors slamming, and landscaping equipment. Noise sources from industrial uses typically include mechanical equipment (e.g., HVAC and mechanical tools) truck idling, and truck maneuvering. The noise associated with these sources may represent a single-event noise occurrence or short-term noise.

4.2 Sensitive Receptors

Noise exposure goals for various types of land uses reflect the varying noise sensitivities associated with those uses. Noise sensitive uses typically include residences, hospitals, schools, childcare facilities, and places of assembly. Vibration sensitive receivers are generally similar to noise sensitive receivers but may also include businesses, such as research facilities and laboratories that use vibration-sensitive equipment. The Project site is primarily surrounded by commercial uses, industrial warehousing, logistics, and distribution related uses. The sensitive land uses nearest to the Project site consist of single-family residences located to the north, northeast, south, and west. Sensitive land uses nearest to the Project are shown in Table 7: Sensitive Receptors.

Table 7: Sensitive Receptors

Receptor Description	Distance and Direction from the Project[1]
Single-Family Residences	97 feet to the south
Single-Family Residences	240 feet to the north
Single-Family Residences	290 feet to the northeast
Single-Family Residences	310 feet to the southwest
Highland Community Park	370 feet to the northwest
Single-Family Residences	818 feet to the west
Cypress Elementary School	1,960 feet to the northwest

Notes:
1. Distances were measured from the project property line to the nearest area of frequent human use at the receptor.

Source: Google Earth, 2023.

4.3 Noise Measurements

To quantify existing ambient noise levels in the Project area, Kimley-Horn conducted four short-term noise measurements on March 28, 2023; see Appendix A: Noise Data. The noise measurement sites were representative of typical existing noise exposure within and immediately adjacent to the Project site. The 10-minute measurements were taken between 2:09 p.m. and 3:32 p.m. Short-term L_{eq} measurements are considered representative of the noise levels throughout the day. The average noise levels and sources of noise measured at each location are listed in Table 8: Existing Noise Measurements and shown on Exhibit 5: Noise Measurement Locations.

Table 8: Existing Noise Measurements

Site #	Location	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)	Duration	Time
1	Along Meines Street, near southwest corner of the Project site, approximately 968 feet west of Palm Avenue.	62.9	52.8	81.6	10 mins	2:09 p.m.
2	In the cul-de-sac at the end of Lillian Lane, approximately 775 feet south of Hibiscus Street and east of Highland Community Park.	48.8	44.0	59.5	10 mins	2:30 p.m.
3	In residential neighborhood to the north of the Project site at the intersection of Drummond Avenue and Fleming Street, adjacent to single-family residence.	55.4	50.4	72.4	10 mins	2:50 p.m.
4	In residential neighborhood to the northeast of the Project site at the intersection of Peacock Avenue and 6th Street.	50.5	41.2	65.7	10 mins	3:06 p.m.
5	Near the southeast corner of the Project site, at the corner intersection of Meines Street and Palm Avenue.	65.4	52.7	79.5	10 mins	3:22 p.m.

Source: Noise measurements taken by Kimley-Horn, March 28, 2023. See Appendix A for noise measurement results.

EXHIBIT 5: Noise Measurement Locations
Meines Street and Palm Avenue Warehouse Project
City of Highland

Not to Scale

Kimley»Horn
Expect More. Experience Better.

5 SIGNIFICANCE CRITERIA AND METHODOLOGY

5.1 CEQA Thresholds

Appendix G of the California Environmental Quality Act (CEQA) contains analysis guidelines related to noise impacts. These guidelines have been used by the City to develop thresholds of significance for this analysis. A project would create a significant environmental impact if it would:

- Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- Generate excessive ground-borne vibration or ground-borne noise levels; and
- For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, expose people residing or working in the Project area to excessive noise levels.

Noise and Vibration Thresholds

Construction Noise Thresholds

The City of Highland does not establish quantitative construction noise standards and only limits the construction activities' timeframe; therefore, this analysis conservatively uses the following Federal Transit Administration (FTA) *Transit Noise and Vibration Impact Assessment Manual* (FTA, 2018) (FTA Noise and Vibration Manual) thresholds to analyze construction noise impacts at adjacent properties:

- Residential: 80 dBA $L_{eq\ (8\text{-}hour)}$
- Commercial: 85 dBA $L_{eq\ (8\text{-}hour)}$
- Industrial: 90 dBA $L_{eq\ (8\text{-}hour)}$

Operational Noise Thresholds

On-Site Stationary Noise

Operational noise is evaluated based on the standards within the HMC and General Plan. HMC Chapter 8.50 Noise Control identifies a daytime (7:00 a.m. – 10:00 p.m.) standard of 45 (interior) and 60 dBA (exterior) for residential uses and a nighttime (10:00 p.m. – 7:00 a.m.) standard of 45 dBA (interior) and 55 dBA (exterior); refer to Table 4 and Table 5. HMC also identifies a daytime standard of 70 dBA and nighttime standard of 65 dBA for commercial uses. Industrial uses have a standard of 75 dBA at any time.

Off-Site Mobile Traffic Noise

The City provides noise and land use compatibility standards (i.e., noise standards using a 24-hour metric such as L_{dn} or CNEL and with Normally Acceptable, Conditionally Acceptable, Normally Unacceptable, and Clearly Unacceptable designations) in the General Plan Noise Element. A potentially significant traffic noise impact would occur if the Project would cause ambient noise levels to increase by 3 dBA CNEL or

more and the resulting noise falls on a noise-sensitive land use that exceeds the noise and land use compatibility standards (i.e., causing the noise level of a noise sensitive land use within an area to be categorized as either "Normally Unacceptable" or "Clearly Unacceptable"). Note that noise level changes less than 3 dBA are not detectable by the human ear.

Noise levels up to 60 dBA CNEL are considered Normally Acceptable and noise levels up to 70 dBA CNEL are considered Conditionally Acceptable for single-family residential uses. Meeting the conditionally acceptable standards are appropriate as long as new construction or development is undertaken only after a detailed analysis of noise reduction and that noise insulation is included in the design. Therefore, the proposed Project would result in a potentially significant traffic noise impact if Project traffic would increase the baseline traffic level by 3 dBA CNEL and exceed the Normally Acceptable land use compatibility standard. The environmental baseline is the Without Project condition.

Vibration Thresholds

The City currently does not have a significance threshold to assess vibration impacts. The Caltrans 2020 *Transportation and Construction Vibration Guidance Manual* (Caltrans Construction Vibration Guidance Manual) identifies the vibration threshold for human annoyance, vibrations levels of 0.4 in/sec PPV is when vibrations are considered severe by people subjected to continuous vibrations and levels of 0.2 in/sec is used for building damage.

5.2 Methodology

Construction

Construction noise levels were based on typical noise levels generated by construction equipment published by the FTA and FHWA. Construction noise is assessed in dBA L_{eq}. This unit is appropriate because L_{eq} can be used to describe noise level from operation of each piece of equipment separately, and levels can be combined to represent the noise level from all equipment operating during a given period.

Construction noise modeling was conducted using the FHWA Roadway Construction Noise Model (RCNM). Reference noise levels are used to estimate operational noise levels at nearby sensitive receptors based on a standard noise attenuation rate of 6 dB per doubling of distance (line-of-sight method of sound attenuation for point sources of noise). Noise level estimates do not account for the presence of intervening structures or topography, which may reduce noise levels at receptor locations. Therefore, the noise levels presented herein represent a conservative, reasonable worst-case estimate of actual temporary construction noise. The City of Highland does not establish quantitative construction noise standards. As noted above, this analysis conservatively uses the FTA's threshold of 80 dBA (8-hour L_{eq}) for residential uses and 90 dBA (8-hour L_{eq}) for non-residential uses to evaluate construction noise impacts.

Operations

The analysis of the operational noise environment is based on noise attenuation calculations (inverse square law) and empirical observations. Reference noise level data are used to estimate the Project operational noise impacts from stationary sources. Noise levels were collected from published sources from similar types of activities and used to estimate noise levels expected with the Project's stationary sources. The reference noise levels are used to represent a worst-case noise environment as noise level

from stationary sources can vary throughout the day. Operational noise is evaluated based on the standards within the General Plan and HMC.

An analysis was conducted of the Project's effect on traffic noise conditions at off-site land uses. Without Project traffic noise levels were compared to With Project traffic noise levels. The environmental baseline is the Without Project condition. The Without Project and With Project traffic noise levels in the Project vicinity were calculated using the FHWA Highway Noise Prediction Model (FHWA-RD-77-108). The actual sound level at any receptor location is dependent upon such factors as the source-to-receptor distance and the presence of intervening structures (walls and buildings), barriers, and topography). The noise attenuating effects of changes in elevation, topography, and intervening structures were not included in the model. Therefore, the modeling effort is considered a worst-case representation of the roadway noise. In general, a 3-dBA increase in traffic noise is barely perceptible to people, while a 5-dBA increase is readily noticeable.

Vibration

Ground-borne vibration levels associated with construction-related activities for the Project were evaluated utilizing typical ground-borne vibration levels associated with construction equipment, obtained from FTA published data for construction equipment. Potential ground-borne vibration impacts related to building/structure damage and interference with sensitive existing operations were evaluated, considering the distance from construction activities to nearby land uses and typically applied criteria.

For a structure built traditionally, without assistance from qualified engineers, the FTA guidelines show that a vibration level of up to 0.20 in/sec is considered safe and would not result in any vibration damage. FTA guidelines show that modern engineered buildings built with reinforced-concrete, steel or timber can withstand vibration levels up to 0.50 in/sec and not experience vibration damage. The Caltrans Construction Vibration Guidance Manual identifies the vibration threshold for human annoyance, vibrations levels of 0.4 in/sec PPV is when vibrations are considered severe by people subjected to continuous vibrations and levels of 0.2 in/sec is used for building damage.

6 POTENTIAL IMPACTS AND MITIGATION

6.1 Acoustical Impacts

Threshold 6.1 Would the Project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Construction

On-site Construction Noise. Construction noise typically occurs intermittently and varies depending on the nature or phase of construction (e.g., land clearing, grading, excavation, paving). Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. During construction, exterior noise levels could affect the residential uses surrounding the construction site. However, it is acknowledged that construction activities would occur throughout the project site and would not be concentrated at a single point near sensitive receptors.

Construction activities would include demolition, site preparation, grading, infrastructure improvements, building construction, paving, and architectural coating. Such activities could require dozers, excavators, and concrete saws during demolition; dozers and tractors during site preparation; excavators, graders, dozers, tractors, and scrapers during grading; tractors, pavers, and rollers during infrastructure improvements; cranes, generators, tractors, and welders during building construction; pavers, rollers, and a pavement scarafier during paving; and air compressors during architectural coating. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 to 4 minutes at lower power settings. Other primary sources of acoustical disturbance would be random incidents, which would last less than one minute (such as dropping large pieces of equipment or the hydraulic movement of machinery lifts). Typical noise levels associated with individual construction equipment are listed in Table 9: Typical Construction Noise Levels.

Table 9: Typical Construction Noise Levels

Equipment	Typical Noise Level (dBA) at 50 feet from Source	Typical Noise Level (dBA) at 100 feet from Source[1]
Air Compressor	80	74
Backhoe	80	74
Compactor	82	76
Concrete Mixer	85	79
Concrete Pump	82	76
Concrete Vibrator	76	70
Crane, Mobile	83	77
Dozer	85	79
Generator	82	76
Grader	85	79
Impact Wrench	85	79
Jack Hammer	88	82
Loader	80	74
Paver	85	79
Pneumatic Tool	85	79
Pump	77	71

Table 9: Typical Construction Noise Levels		
Equipment	**Typical Noise Level (dBA) at 50 feet from Source**	**Typical Noise Level (dBA) at 100 feet from Source[1]**
Roller	85	79
Saw	76	70
Scraper	85	79
Shovel	82	76
Truck	84	78
Notes: 1. Calculated using the inverse square law formula for sound attenuation: $dBA_2 = dBA_1+20Log(d_1/d_2)$ Where: dBA_2 = estimated noise level at receptor; dBA_1 = reference noise level; d_1 = reference distance; d_2 = receptor location distance		
Source: Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018.		

Although the construction equipment noise levels in Table 9 are from FTA Noise and Vibration Manual, the noise levels are based on measured data from a U.S. Environmental Protection Agency report which uses data from the 1970s,[8] the FHWA Roadway Construction Noise Model which uses data from the early 1990s, and other measured data. Since that time, construction equipment has been required to meet more stringent emissions standards and the additional necessary exhaust systems also reduce noise from what is shown in the table.

While the HMC does not establish quantitative construction noise standards, this analysis conservatively uses the FTA's threshold of 80 dBA (8-hour L_{eq}) for residential uses, 85 dBA (8-hour L_{eq}) for commercial uses, and 90 dBA (8-hour L_{eq}) for industrial uses to evaluate construction noise impacts.[9]

Project Construction Noise Levels

The noise levels calculated in Table 10: Project Construction Noise Levels, show the exterior construction noise without accounting for attenuation from existing physical barriers which have been estimated using RCNM. The nearest noise sensitive receptors are residences located approximately 97 feet south of the property line and 560 feet from the center of construction activity. Following FTA methodology, all equipment is assumed to operate at the center of the Project site because equipment would operate throughout the site and not a fixed location for extended periods of time. These assumptions represent a worst-case noise scenario as construction activities would routinely be spread throughout the construction site further away from noise sensitive receptors.

[8] United States Environmental Protection Agency, *Noise from Construction Equipment and Operations, Building Equipment and Home Appliances*, NTID300.1, December 31, 1971.

[9] Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, Table 7-2, Page 179, September 2018.

Table 10: Project Construction Noise Levels

Construction Phase	Receptor Location			Worst Case Modeled Exterior Noise Level (dBA L_{eq})	Noise Threshold (dBA L_{eq})	Exceeded?
	Land Use	Direction	Distance (feet)[1]			
Demolition	Residential	North	524	66.0	80	No
	Residential	South	560	65.5	80	No
	Commercial	South	415	68.1	85	No
	Commercial	West	593	65.0	85	No
	Industrial	East	588	65.0	90	No
Site Preparation	Residential	North	524	67.2	80	No
	Residential	South	560	66.6	80	No
	Commercial	South	415	69.2	85	No
	Commercial	West	593	66.1	85	No
	Industrial	East	588	66.2	90	No
Grading	Residential	North	524	67.8	80	No
	Residential	South	560	67.2	80	No
	Commercial	South	415	69.8	85	No
	Commercial	West	593	66.7	85	No
	Industrial	East	588	66.8	90	No
Infrastructure Improvements	Residential	North	524	62.5	80	No
	Residential	South	560	61.9	80	No
	Commercial	South	415	64.5	85	No
	Commercial	West	593	61.4	85	No
	Industrial	East	588	61.5	90	No
Paving	Residential	North	524	66.1	80	No
	Residential	South	560	65.5	80	No
	Commercial	South	415	68.1	85	No
	Commercial	West	593	65.0	85	No
	Industrial	East	588	65.1	90	No
Building Construction	Residential	North	524	68.0	80	No
	Residential	South	560	67.4	80	No
	Commercial	South	415	70.0	85	No
	Commercial	West	593	66.9	85	No
	Industrial	East	588	67.0	90	No
Architectural Coating	Residential	North	524	53.3	80	No
	Residential	South	560	52.7	80	No
	Commercial	South	415	55.3	85	No
	Commercial	West	593	52.2	85	No
	Industrial	East	588	52.3	90	No
Overlapping Phases						
Demolition, Site Preparation, Grading	Residential	North	524	71.9	80	No
	Residential	South	560	71.3	80	No
	Commercial	South	415	73.9	85	No
	Commercial	West	593	70.8	85	No
	Industrial	East	588	70.9	90	No
Infrastructure Improvements, Paving, Building Construction	Residential	North	524	70.8	80	No
	Residential	South	560	70.3	80	No
	Commercial	South	415	72.9	85	No
	Commercial	West	593	69.8	85	No
	Industrial	East	588	69.8	90	No
Paving, Building, Architectural Coating	Residential	North	524	70.2	80	No
	Residential	South	560	72.3	80	No
	Commercial	South	415	72.3	85	No
	Commercial	West	593	69.2	85	No
	Industrial	East	588	69.2	90	No

Notes:
1. In accordance with methodology from the FTA Noise and Vibration Manual, the equipment distance is assumed at the center of the Project site.
2. Threshold from the FTA *Transit Noise and Vibration Impact Assessment Manual*, September 2018.

Source: Federal Highway Administration, *Roadway Construction Noise Model,* 2006. Refer to Appendix A for noise modeling results.

FTA's construction threshold is an 8-hour L_{eq}, which accounts for the percentage of time each individual piece of equipment operates under full power in that period. Additionally, construction equipment would move throughout the site during that period. Following FTA methodology, when calculating construction noise, all construction equipment is assumed to operate simultaneously at the center of the active construction zone to represent an average distance throughout the day. During construction, equipment would operate throughout the site and not all of the equipment would be operating at the point closest to the sensitive receptors and considering the distance between the center of the Project site and the sensitive receptors is a reasonable assumption.

As shown in Table 10, exterior noise levels during Project construction would range between 52.2 dBA and 73.9 dBA and would not exceed the FTA's construction noise thresholds at the nearest off-site uses. The City of Highland has set restrictions to control noise impacts from construction activities within the HMC. HMC § 8.50.050 states that no person shall be engaged in construction and operation-related activities, including operation of domestic power tools, electrically operated compressors, pile drivers, ground vehicles, etc., except within the hours of 5:00 a.m. and 10:00 p.m. on any day in the industrial (I) zone, and between the hours of 7:00 a.m. and 10:00 p.m. in all other zones. However, since the Project is adjacent to existing residences, the Project would be required to comply with the following General Plan limitations on construction noise hours (Goal 7.3, Action 1):

> *As a condition of approval, limit non-emergency construction activities adjacent to existing noise-sensitive uses to daylight hours between 7:00 a.m. and 6:00 p.m. Discourage construction on weekends or holidays except in the case of construction proximate to schools where these operations could disturb the classroom environment.*

With incorporation of the City's standard conditions from the General Plan, impacts from short-term construction noise would be less than significant.

Operations

Implementation of the proposed project would create new sources of noise in the Project vicinity. The major noise sources associated with the Project including the followings:

- Mechanical equipment (i.e., trash compactors, air conditioners, etc.);
- Slow moving trucks on the Project site, approaching and leaving the loading areas;
- Truck Back-Up Alarms;
- Activities at the loading areas (i.e., maneuvering and idling trucks, equipment noise);
- Parking areas (i.e., car door slamming, car radios, engine start-up, and car pass-by); and
- Off-Site Traffic Noise.

Each noise source is discussed in more detail below. On-site operational noise sources are expected to include rooftop air conditioning units, parking lot activity, and truck loading dock activity. Off-site noise could be generated by vehicles, including heavy trucks, accessing the Project site and contributing to vehicular roadway noise.

Mechanical Equipment

Potential stationary noise sources related to long-term operation of the Project site would include mechanical equipment. Mechanical equipment (e.g., heating ventilation and air conditioning [HVAC] equipment) typically generates noise levels of approximately 52 dBA at 50 feet.[10] The HVAC equipment would be roof mounted and would be located as close as approximately 170 feet from the nearest residential uses to the south. At this distance, HVAC equipment noise would be approximately 41.7 dBA based on distance attenuation alone (using the inverse square law of sound propagation)[11] and would not exceed the City's most stringent daytime or nighttime noise standards of 60 dBA and 55 dBA, respectively, for residential uses. It should also be noted that the proposed warehouse building would include a parapet wall along the perimeter of the roof that would reduce HVAC noise at sensitive receptors in the Project vicinity. Therefore, the proposed Project would result in a less than significant impact related to mechanical equipment noise levels.

Truck and Loading Dock Noise

During loading and unloading activities, noise would be generated by the trucks' diesel engines, exhaust systems, and brakes during low gear shifting braking activities; backing up toward the docks; dropping down the dock ramps; and maneuvering away from the docks. Loading or unloading activities would occur on the northern façade of the proposed warehouse building in the northern portion of the Project site. Truck access to the site would occur via two 40-foot-wide access driveways along Meines Street and Palm Avenue (i.e., one access driveway from each roadway).

Typically, heavy truck operations generate a noise level of 70 dBA at a distance of 50 feet.[12] As the closest residences would be located approximately 400 feet north of the proposed truck loading area, truck and loading noise would be approximately 46.9 dBA,[13] which is below the City's most stringent daytime and nighttime noise standards of 60 dBA and 55 dBA, respectively, for residential uses. It should also be noted that the loading dock doors would be surrounded with protective aprons, gaskets, or similar improvements that, when a trailer is docked, would serve as a noise barrier between the interior warehouse activities and the exterior loading area. This would attenuate noise emanating from interior loading activities to negligible noise levels outside of the warehouse building, and as such, interior loading and associated activities would comply with HMC § 8.50.050(b) and would be permissible during all hours of the day.

[10] Elliott H. Berger, Rick Neitzel, and Cynthia A. Kladden, *Noise Navigator Sound Level Database with Over 1700 Measurement Values*, June 26, 2015.

[11] Sound level reduces by 6 dB for every doubling of distance.

[12] Elliott H. Berger, Rick Neitzel, and Cynthia A. Kladden, *Noise Navigator Sound Level Database with Over 1700 Measurement Values*, June 26, 2015.

[13] Based on the inverse square law of sound propagation and assuming a minimum 5 dBA reduction from the proposed 10-foot-high perimeter screen wall along the northern boundary of the Project site.

It is also noted that cargo forklifts could be used at the outdoor loading dock area during daytime and nighttime hours for truck loading/unloading activities. Cargo forklifts generate noise levels of approximately 85 dBA at 3 feet.[14] The nearest sensitive receptors (single-family residences) would be located approximately 400 feet north of where cargo forklifts would operate at the Project site. At this distance, forklift noise levels would be approximately 37.5 dBA[15] and would not exceed the City's most stringent daytime or nighttime noise standards of 60 dBA and 55 dBA, respectively, for residential uses. As such, cargo forklift noise levels (37.5 dBA at the nearest sensitive uses) would be similar to background noise in a theater or a large conference room (see Table 1) and would comply with HMC § 8.50.050(b).

As discussed above, noise levels associated with trucks and loading/unloading activities would not exceed the City's noise standards and would comply with the provisions of HMC § 8.50.050. Therefore, noise impacts from truck and loading dock noise would be less than significant.

Truck Back-Up Alarms**.** Medium and heavy-duty trucks reversing into loading docks would produce noise from back-up alarms (also known as back-up beepers). Back-up beepers produce a typical volume of 97 dBA at one meter from the source.[16] The nearest sensitive receptors (single-family residences) would be located approximately 400 feet north of the truck loading area where trucks would be reversing and maneuvering into the loading area. At this distance, exterior noise levels from back-up beepers would be approximately 49.5 dBA,[17] which is below the City's most stringent daytime or nighttime noise standards of 60 dBA and 55 dBA, respectively, for residential uses. Back-up beeper noise levels (49.5 dBA at the nearest sensitive uses) would be similar to that of a dishwasher (see Table 1) and would attenuate to at least 35 dBA (assuming a windows open condition) within the nearest residences and would be below the City's 45 dBA interior noise level standard. Further, it is noted that back-up beeper noise is short in duration and would occur intermittently throughout the day/night. Therefore, back-up beeper noise would not exceed the City's applicable noise standards and would comply with the provisions of HMC § 8.50.

Parking Noise

The proposed Project would provide a total of 240 parking spaces, including 47 trailer stalls, 39 dock door parking spaces, and 193 standard auto parking spaces. Parking stalls would surround the proposed warehouse building to the north, east, and west. According to the Traffic Impact Study, the Project would generate up to 51 trips during the peak hour. For the purpose of providing a conservative, quantitative estimate of the noise levels that would be generated from the vehicles entering and exiting the parking lot, the methodology recommended by FTA for the general assessment of stationary transit noise sources is used. Using the methodology, the Project's peak hourly noise level that would be generated by the on-site parking levels was estimated using the following FTA equation for a parking lot:

[14] Noise Testing Workplace Noise Consultants, *Warehouse & Forklift Workplace Noise Levels*, https://www.noisetesting.info/blog/warehouse-forklift-workplace-noise-levels/, accessed on May 2, 2023.

[15] Based on the inverse square law of sound propagation and assuming a minimum 5 dBA reduction from the proposed 10-foot-high perimeter screen wall along the northern boundary of the Project site.

[16] Environmental Health Perspectives, *Vehicle Motion Alarms: Necessity, Noise Pollution, or Both?* https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3018517/, accessed May 2023.

[17] Based on the inverse square law of sound propagation and assuming a minimum 5 dBA reduction from the proposed 10-foot-high perimeter screen wall along the northern boundary of the Project site.

$$L_{eq(h)} = SEL_{ref} + 10 \log (NA/1{,}000) - 35.6$$

Where:

$L_{eq(h)}$ = hourly L_{eq} noise level at 50 feet

SEL_{ref} = reference noise level for stationary noise source represented in sound exposure level (SEL) at 50 feet

NA = number of automobiles per hour

35.6 is a constant in the formula, calculated as 10 times the logarithm of the number of seconds in an hour

Using FTA's reference noise level of 92 dBA SEL[18] at 50 feet from the noise source, the Project's highest peak hour vehicle trips would generate noise levels of approximately 43.5 dBA L_{eq} at 50 feet from the parking lot. The closest sensitive receptor is located approximately 100 feet from the parking lot. Conservatively assuming that all vehicles would park at a location nearest to sensitive receptors rather than dispersed throughout all available parking and based strictly on distance attenuation, parking lot noise at the nearest receptor would be 37.5 dBA, which is below the City's most stringent daytime and nighttime noise standards of 60 dBA and 55 dBA, respectively, for residential uses. Parking lot noise would be consistent with the existing noise in the vicinity and would be partially masked by background noise from traffic along area roadways. Noise associated with parking lot activities is not anticipated to exceed the City's noise standards during operation. Therefore, noise impacts from parking lots would be less than significant.

Off-Site Traffic Noise

Implementation of the Project would generate increased traffic volumes along nearby roadway segments. Based on the Traffic Study, the proposed Project would result in approximately 487 daily trips. The Opening Year "2024 Without Project" and "2024 With Project" scenarios are compared in Table 11: Project Traffic Noise Levels. Table 11 shows roadway noise levels without the Project would range from 51.4 dBA CNEL to 69.4 dBA CNEL and between 54.9 dBA CNEL and 69.6 dBA CNEL with the Project.

In general, a traffic noise increase of less than 3 dBA is barely perceptible to people, while a 5-dBA increase is readily noticeable.[19] As shown in Table 11, the "With Project" noise levels would result in a maximum increase of 3.5 dBA CNEL along Meines Street (West of Palm Avenue), which is largely attributed to heavy truck travel. Although this roadway segment would experience a barely noticeable traffic noise increase as a result of the Project, the "With Project" noise level would not exceed the Normally Acceptable noise standard along this roadway for residential uses; see Table 11. As such, traffic noise impacts from the proposed Project would be less than significant.

Mitigation Measures: No mitigation is required.

Level of Significance: Less than significant impact.

[18] Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018.

[19] Federal Highway Administration, *Highway Traffic Noise Analysis and Abatement Policy and Guidance, Noise Fundamentals*, https://www.fhwa.dot.gov/environMent/noise/regulations_and_guidance/polguide/polguide02.cfm, accessed April 24, 2023.

Table 11: Project Traffic Noise Levels

Roadway Segment		2024 Without Project		2024 With Project		Change	Normally Acceptable Standard (dBA CNEL)[2]	Significant Impact[3]
		ADT	dBA CNEL[1]	ADT	dBA CNEL[1]			
Palm Avenue	Meines Street to 5th Street	17,680	65.0	18,140	65.2	0.2	70	No
	5th Street to 3rd Street	14,770	66.7	14,840	66.7	0.0	70	No
Meines Street	West of Palm Avenue	640	51.4	790	54.9	3.5	60	No
5th Street	Palm Avenue to Church Avenue	21,260	68.3	21,590	68.5	0.2	70	No
	Church Avenue to SR-210 EB Ramps at 5th Street	28,190	69.4	28,570	69.6	0.2	75	No
3rd Street	Palm Avenue to Church Avenue	6,870	66.7	6,920	66.5	-0.2	70	No

ADT = average daily traffic; dBA = A-weighted decibels; CNEL = community noise equivalent level.

Notes:
1. Traffic noise levels are at 100 feet from the roadway centerline. The actual sound level at any receptor location is dependent upon such factors as the source-to-receptor distance and the presence of intervening structures, barriers, and topography.
2. The lowest Normally Acceptable land use compatibility noise standard for developed uses along each roadway segment is conservatively used to analyze impacts; see Exhibit 4.
3. Potential impacts occur when the Project change exceeds 3 dBA and the Normally Acceptable land use compatibility standard is exceeded (i.e., both must occur).

Source: Based on traffic data within the Traffic Study, prepared by Kimley-Horn, January 2023. Refer to Appendix B for traffic noise modeling assumptions and results.

Threshold 6.2 Would the Project expose persons to or generate excessive ground borne vibration or ground-borne noise levels?

Construction Vibration

Construction can generate varying degrees of ground vibration, depending on the construction procedures and equipment. Operation of construction equipment generates vibrations that spread through the ground and diminish with distance from the source. Construction on the project site would have the potential to result in varying degrees of temporary ground-borne vibration, depending on the specific construction equipment used and the operations involved.

The FTA has published standard vibration velocities for construction equipment operations. In general, the FTA architectural damage criterion for continuous vibrations (i.e., 0.2 in/sec) appears to be conservative. The types of construction vibration impacts include human annoyance and building damage. Human annoyance occurs when construction vibration rises significantly above the threshold of human perception for extended periods of time. Building damage can be cosmetic or structural. Ordinary buildings that are not particularly fragile would not experience any cosmetic damage (e.g., plaster cracks) at distances beyond 30 feet. This distance can vary substantially depending on the soil composition and underground geological layer between vibration source and receiver. In addition, not all buildings respond similarly to vibration generated by construction equipment. For example, for a building that is constructed with reinforced concrete with no plaster, the FTA guidelines show that a vibration level of up to 0.20 in/sec is considered safe and would not result in any construction vibration damage.

Table 12: Typical Construction Equipment Vibration Levels, lists vibration levels at 25 feet for typical construction equipment. Ground-borne vibration generated by construction equipment spreads through the ground and diminishes in magnitude with increases in distance. As indicated in Table 9, based on FTA data, vibration velocities from typical heavy construction equipment operations that would be used during Project construction range from 0.003 to 0.089 in/sec PPV at 25 feet from the source of activity.

Table 12: Typical Construction Equipment Vibration Levels		
Equipment	**Peak Particle Velocity at 25 Feet (in/sec)**	**Peak Particle Velocity at 30 Feet (in/sec)[1]**
Large Bulldozer	0.089	0.0677
Caisson Drilling	0.089	0.0677
Loaded Trucks	0.076	0.0578
Jackhammer	0.035	0.0266
Small Bulldozer/Tractors	0.003	0.0023

Notes:
1. Calculated using the following formula: $PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$, where: PPV_{equip} = the peak particle velocity in in/sec of the equipment adjusted for the distance; PPV_{ref} = the reference vibration level in in/sec from Table 7-4 of the Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, 2018; D = the distance from the equipment to the receiver.

Source: Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, 2018.

As noted above, the nearest structure to the Project construction site is approximately 30 feet away. Table 12 shows that at 30 feet, the vibration velocities from construction equipment would not exceed 0.0677 in/sec PPV, which is below the FTA's 0.20 in/sec PPV threshold for building damange and below the 0.4 in/sec PPV annoyance threshold. It is also acknowledged that construction activities would occur throughout the project site and would not be concentrated at the point closest to the nearest structure. Therefore, vibration impacts associated with Project construction would be less than significant.

Operational Vibration

The Project would include truck movement activity at the Project site. These movements would generally be low-speed (i.e., less than 15 miles per hour) and would occur over new, smooth surfaces. For perspective, Caltrans has studied the effects of propagation of vehicle vibration on sensitive land uses and notes that "heavy trucks, and quite frequently buses, generate the highest earthborn vibrations of normal traffic." Caltrans further notes that the highest traffic-generated vibrations are along freeways and state routes. Their study finds that "vibrations measured on freeway shoulders (five meters from the centerline of the nearest lane) have never exceeded 0.08 inches per second, with the worst combinations of heavy trucks and poor roadway conditions (while such trucks were moving at freeway speeds). This level coincides with the maximum recommended safe level for ruins and ancient monuments (and historic buildings)".[20] Since the Project's truck movements would be at low speed (not at freeway speeds) and would be over smooth surfaces (not under poor roadway conditions), Project-related vibration associated with truck activity would not result in excessive ground-borne vibrations; no vehicle-generated vibration impacts would occur. In addition, there are no sources of substantial ground-borne vibration associated with the Project, such as rail or subways. The Project would not create or cause any vibration impacts due to operations.

Mitigation Measures: No mitigation is required.

Level of Significance: Less than significant impact.

[20] California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol ("TeNS")*, September 2013.

Threshold 6.3 For a Project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

The closest airport is the San Bernardino International Airport and it is located approximately 0.5-mile southwest of the Project site. The Project site is located outside of the 65 dBA CNEL noise level contour boundary of the airport.[21] No exterior or interior noise mitigation is required to satisfy the policies in the General Plan or HMC. Additionally, there are no private airstrips located within the Project vicinity. Therefore, the Project would not expose people working in the Project area to excessive airport- or airstrip-related noise levels and no mitigation is required. A less than significant impact would occur in this regard.

Mitigation Measures: No mitigation is required.

Level of Significance: Less than significant impact.

6.2 Cumulative Noise Impacts

Cumulative Construction Noise

The Project's construction activities would not result in a substantial temporary increase in ambient noise levels. Construction noise would be periodic and temporary noise impacts that would cease upon completion of construction activities. The Project would contribute to other proximate construction project noise impacts if construction activities were conducted concurrently. As discussed above, Project construction noise levels would not be significant, and the Project would not represent a noticeable increase over the ambient conditions. Therefore, the Project's construction noise would not represent a substantial noise increase in excess of City standards and would not be cumulatively considerable.

Construction activities at other planned and approved projects near the Project site would be required to comply with applicable City rules related to noise and would take place during daytime hours on the days permitted by the HMC, and projects requiring discretionary City approvals would be required to evaluate construction noise impacts, comply with the City's standard conditions of approval, and implement mitigation, if necessary, to minimize noise impacts. Construction noise impacts are by nature localized. Based on the fact that noise dissipates as it travels away from its source, noise impacts would be limited to the Project site and vicinity. Therefore, Project construction would not result in a cumulatively considerable contribution to significant cumulative impacts, assuming such a cumulative impact existed, and impacts in this regard are not cumulatively considerable.

[21] San Bernardino International Airport Authority, *San Bernardino International Airport, Airport Layout Plan Narrative Report*, November 2010.

Cumulative Operational Noise

Cumulative Off-Site Traffic Noise

Cumulative noise impacts describe how much noise levels are projected to increase over existing conditions with the development of the proposed Project and other foreseeable projects. Cumulative noise impacts would occur primarily as a result of increased traffic on local roadways due to buildout of the proposed Project and other projects in the vicinity. Cumulative increases in traffic noise levels were estimated by comparing the Existing and Opening Year Without Project scenarios to the Opening Year Plus Project scenario. The traffic analysis considers cumulative traffic from future growth assumed in the transportation model, as well as cumulative projects.
A project's contribution to a cumulative traffic noise increase would be considered significant when the combined effect exceeds perception level (i.e., auditory level increase) threshold. The following criteria is used to evaluate the combined and incremental effects of the cumulative noise increase.

- *Combined Effect*. The cumulative with Project noise level ("Opening Year With Project") would cause a significant cumulative impact if a 3.0 dB increase over "Existing" conditions occurs and the resulting noise level exceeds the applicable exterior standard at a sensitive use. Although there may be a significant noise increase due to the proposed Project in combination with other related projects (combined effects), it must also be demonstrated that the Project has an incremental effect. In other words, a significant portion of the noise increase must be due to the proposed Project.

- *Incremental Effects*. The "Opening Year With Project" causes a 1.0 dBA increase in noise over the "Opening Year Without Project" noise level.

A significant impact would result only if both the combined and incremental effects criteria have been exceeded, and the resultant noise level exceeds the Normally Acceptable land use compatibility noise standard. Noise by definition is a localized phenomenon and reduces as distance from the source increases. Consequently, only the proposed Project and growth due to occur in the general area would contribute to cumulative noise impacts.

Table 13: Cumulative Off-Site Traffic Noise Levels identifies the traffic noise effects along roadway segments in the Project vicinity for "Existing," "Opening Year Without Project," and "Opening Year With Project," conditions, including incremental and net cumulative impacts. Table 13 shows the combined and incremental effect criterion would not be exceeded along any of the Project roadway segments. As discussed above, a cumulative traffic noise impact would occur if both the combined and incremental effects criteria are exceeded, and the resultant noise level exceeds the Normally Acceptable land use compatibility standard. Therefore, cumulative traffic impacts from the proposed Project would be less than significant.

Cumulative Stationary Noise

Stationary noise sources of the proposed Project would not result in an incremental increase in non-transportation noise sources in the Project vicinity. Furthermore, as discussed above, operational noise caused by the proposed Project would be less than significant. Similar to the proposed Project, other planned and approved projects would be required to mitigate for stationary noise impacts at nearby

sensitive receptors, if necessary. As stationary noise sources are generally localized, there is a limited potential for other projects to contribute to cumulative noise impacts.

No known past, present, or reasonably foreseeable projects would combine with the operational noise levels generated by the Project to increase noise levels above acceptable standards because each project must comply with applicable City regulations that limit operational noise. Therefore, the Project, together with other projects, would not create a significant cumulative impact, and even if there was such a significant cumulative impact, the Project would not make a cumulatively considerable contribution to significant cumulative operational noises.

Given that noise dissipates as it travels away from its source, operational noise impacts from on-site activities and other stationary sources would be limited to the Project site and vicinity. Thus, cumulative operational noise impacts from related projects, in conjunction with Project specific noise impacts, would not be cumulatively significant.

Mitigation Measures: No mitigation is required.

Level of Significance: Less than significant impact.

Table 13: Cumulative Off-Site Traffic Noise Levels

Roadway Segment		Existing[1]	Opening Year Without Project[1]	Opening Year With Project[1]	Combined Effects	Incremental Effects	Normally Acceptable Standard (dBA CNEL)[2]	Cumulatively Significant Impact?[3]
					Difference In dBA Between Existing and Opening Year With Project	Difference In dBA Between Opening Year Without Project and Opening Year With Project		
Palm Avenue	Meines Street to 5th Street	64.5	65.0	65.2	0.8	0.3	70	No
	5th Street to 3rd Street	67.6	66.7	66.7	-0.9	0.0	70	No
Meines Street	West of Palm Avenue	51.4	51.4	54.9	3.4	3.4	60	No
5th Street	Palm Avenue to Church Avenue	68.3	68.3	68.5	0.2	0.2	70	No
	Church Avenue to SR-210 EB Ramps at 5th Street	68.3	69.4	69.6	1.3	0.2	75	No
3rd Street	Palm Avenue to Church Avenue	56.7	66.7	66.5	9.7	-0.2	70	No

ADT = average daily trips; dBA = A-weighted decibels; CNEL = Community Noise Equivalent Level

Notes:
1. Traffic noise levels are at 100 feet from the roadway centerline. The actual sound level at any receptor location is dependent upon such factors as the source-to-receptor distance and the presence of intervening structures, barriers, and topography.
2. The lowest Normally Acceptable land use compatibility noise standard for developed uses along each roadway segment is conservatively used to analyze impacts; see Exhibit 4.
3. A significant impact would result only if both the combined and incremental effects criteria have been exceeded, and the resultant noise level exceeds the Normally Acceptable land use compatibility standard.

Source: Based on traffic data within the Traffic Study, prepared by Kimley-Horn, March 2023. Refer to Appendix B for traffic noise modeling assumptions and results.

7 REFERENCES

1. California Department of Transportation, *California Vehicle Noise Emission Levels*, 1987.
2. California Department of Transportation, *Traffic Noise Analysis Protocol*, 2020.
3. California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol*, 2013.
4. California Department of Transportation, *Transportation and Construction Vibration Guidance Manual*, 2020.
5. City of Highland, *City of Highland General Plan*, 2012.
6. City of Highland, *Highland Municipal Code*, current through Ordinance 459, passed January 10, 2023.
7. Cyril M. Harris, *Handbook of Noise Control*, 1979.
8. Elliott H. Berger, Rick Neitzel, and Cynthia A. Kladden, *Noise Navigator Sound Level Database with Over 1700 Measurement Values*, June 26, 2015.
9. Environmental Health Perspectives, *Vehicle Motion Alarms: Necessity, Noise Pollution, or Both?* https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3018517/, accessed May 2023.
10. Kariel, H. G., *Noise in Rural Recreational Environments*, Canadian Acoustics 19(5), 3-10, 1991.
11. Federal Highway Administration, *Highway Traffic Noise Analysis and Abatement Policy and Guidance, Noise Fundamentals*, https://www.fhwa.dot.gov/environMent/noise/regulations_and_guidance/polguide/polguide02.cfm, accessed April 24, 2023.
12. Federal Highway Administration, *National Transportation Noise Map*, https://www.bts.gov/geospatial/national-transportation-noise-map, accessed April 24, 2023.
13. Federal Highway Administration, *Noise Fundamentals*, 2017, https://www.fhwa.dot.gov/environMent/noise/regulations_and_guidance/polguide/polguide02.cfm, accessed April 24, 2023.
14. Federal Highway Administration, *Roadway Construction Noise Model*, 2006.
15. Federal Highway Administration, *Roadway Construction Noise Model User's Guide Final Report*, 2006.
16. Federal Interagency Committee on Noise, *Federal Agency Review of Selected Airport Noise Analysis Issues*, 1992.
17. Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018.
18. James P. Cowan, *Handbook of Environmental Acoustics,* 1994.
19. Noise Testing Workplace Noise Consultants, Warehouse & Forklift Workplace Noise Levels, https://www.noisetesting.info/blog/warehouse-forklift-workplace-noise-levels/, accessed on May 2, 2023.
20. San Bernardino International Airport Authority, *San Bernardino International Airport, Airport Layout Plan Narrative Report*, November 2010.
21. United States Department of Housing and Urban Development, *Noise Guidebook*, 2009.

22. United States Environmental Protection Agency, *Noise from Construction Equipment and Operations, Building Equipment and Home Appliances*, NTID300.1, December 31, 1971.
23. United States Environmental Protection Agency, *Protective Noise Levels (EPA 550/9-79-100)*, 1979.

Appendix A

Existing Ambient Noise Measurements

Noise Measurement Field Data

Project:	Meines Street and Palm Avenue Warehouse	**Job Number:**	195466001
Site No.:	ST-1	**Date:**	3/28/2023
Analyst:	Skye Hansen and Sarah Miller	**Time:**	2:09 PM - 2:19 PM
Location:	Along Meines Street, near southwest corner of the Project site, approximately 968 feet west of Palm Avenue.		
Noise Sources:	Cars driving along Meines Street		

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
62.9	52.8	81.6	110.4

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	70
Wind (mph):	7
Sky:	Clear
Bar. Pressure:	30.02
Humidity:	22%

Photo:

Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	ST-.076.s	Computer's File Name	LxTse_0007061-20230328 140958-ST-.076.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Start Time	2023-03-28 14:09:58	Duration	0:10:00.0		
End Time	2023-03-28 14:19:58	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-03-23 11:12:03	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	62.9 dB		
LAE	90.7 dB	SEA	--- dB
EA	130.0 µPa²h		
LA_{peak}	110.4 dB	2023-03-28 14:09:58	
LAS_{max}	81.6 dB	2023-03-28 14:14:28	
LAS_{min}	52.8 dB	2023-03-28 14:11:21	
LA_{eq}	62.9 dB		
LC_{eq}	76.9 dB	LC_{eq} - LA_{eq}	14.0 dB
LAI_{eq}	66.6 dB	LAI_{eq} - LA_{eq}	3.7 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
62.9 dB	62.9 dB	0.0 dB

LDEN	LDay	LEve	LNight
62.9 dB	62.9 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	62.9 dB		76.9 dB		--- dB	
$LS_{(max)}$	81.6 dB	2023-03-28 14:14:28	--- dB	None	--- dB	None
$LS_{(min)}$	52.8 dB	2023-03-28 14:11:21	--- dB	None	--- dB	None
$L_{Peak(max)}$	110.4 dB	2023-03-28 14:09:58	--- dB	None	--- dB	None

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	66.2 dB
LAS 10.0	63.3 dB
LAS 33.3	58.7 dB
LAS 50.0	57.2 dB
LAS 66.6	56.4 dB
LAS 90.0	55.6 dB

Time History

Noise Measurement Field Data

Project:	Meines Street and Palm Avenue Warehouse	**Job Number:**	195466001
Site No.:	ST-2	**Date:**	3/28/2023
Analyst:	Skye Hansen and Sarah Miller	**Time:**	2:30 PM - 2:40 PM
Location:	In the cul-de-sac at the end of Lillian Lane, approximately 775 feet south of Hibiscus Street and east of Highland Community Park.		
Noise Sources:	Traffic noise from Hibiscus Street.		

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
48.8	44.0	59.5	89.5

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	70
Wind (mph):	7
Sky:	Clear
Bar. Pressure:	30.02
Humidity:	23%

Photo:

Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	ST-.077.s	Computer's File Name	LxTse_0007061-20230328 143041-ST-.077.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Start Time	2023-03-28 14:30:41	Duration	0:10:00.0		
End Time	2023-03-28 14:40:41	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-03-23 11:12:03	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	48.8 dB		
LAE	76.6 dB	SEA	--- dB
EA	5.1 µPa²h		
LA_{peak}	89.5 dB	2023-03-28 14:30:42	
LAS_{max}	59.5 dB	2023-03-28 14:39:31	
LAS_{min}	44.0 dB	2023-03-28 14:31:25	
LA_{eq}	48.8 dB		
LC_{eq}	63.6 dB	LC_{eq} - LA_{eq}	14.8 dB
LAI_{eq}	51.7 dB	LAI_{eq} - LA_{eq}	2.9 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
48.8 dB	48.8 dB	0.0 dB

LDEN	LDay	LEve	LNight
48.8 dB	48.8 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	48.8 dB		63.6 dB		--- dB	
$LS_{(max)}$	59.5 dB	2023-03-28 14:39:31	--- dB	None	--- dB	None
$LS_{(min)}$	44.0 dB	2023-03-28 14:31:25	--- dB	None	--- dB	None
$L_{Peak(max)}$	89.5 dB	2023-03-28 14:30:42	--- dB	None	--- dB	None

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	52.0 dB
LAS 10.0	50.6 dB
LAS 33.3	48.4 dB
LAS 50.0	47.8 dB
LAS 66.6	47.3 dB
LAS 90.0	46.7 dB

Time History

Noise Measurement Field Data

Project:	Meines Street and Palm Avenue Warehouse	**Job Number:**	195466001
Site No.:	ST-3	**Date:**	3/28/2023
Analyst:	Skye Hansen and Sarah Miller	**Time:**	2:50 PM - 3:00 PM
Location:	In residential neighborhood to the north of the Project site at the intersection of Drummond Avenue and Fleming Street, adjacent to single-family residence.		
Noise Sources:	Car pass-bys in residential neighborhood		

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
55.4	50.4	72.4	90.4

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	70
Wind (mph):	7
Sky:	Clear
Bar. Pressure:	30.01
Humidity:	24%

Photo:

Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	ST-.078.s	Computer's File Name	LxTse_0007061-20230328 145022-ST-.078.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Start Time	2023-03-28 14:50:22	Duration	0:10:00.0		
End Time	2023-03-28 15:00:22	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-03-23 11:12:03	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	55.4 dB		
LAE	83.2 dB	SEA	--- dB
EA	23.1 µPa²h		
LA_{peak}	90.4 dB	2023-03-28 15:00:15	
LAS_{max}	72.4 dB	2023-03-28 14:50:42	
LAS_{min}	50.4 dB	2023-03-28 14:57:58	
LA_{eq}	55.4 dB		
LC_{eq}	67.3 dB	LC_{eq} - LA_{eq}	11.9 dB
LAI_{eq}	63.5 dB	LAI_{eq} - LA_{eq}	8.1 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
55.4 dB	55.4 dB	0.0 dB

LDEN	LDay	LEve	LNight
55.4 dB	55.4 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	55.4 dB		67.3 dB		--- dB	
$LS_{(max)}$	72.4 dB	2023-03-28 14:50:42	--- dB	None	--- dB	None
$LS_{(min)}$	50.4 dB	2023-03-28 14:57:58	--- dB	None	--- dB	None
$L_{Peak(max)}$	90.4 dB	2023-03-28 15:00:15	--- dB	None	--- dB	None

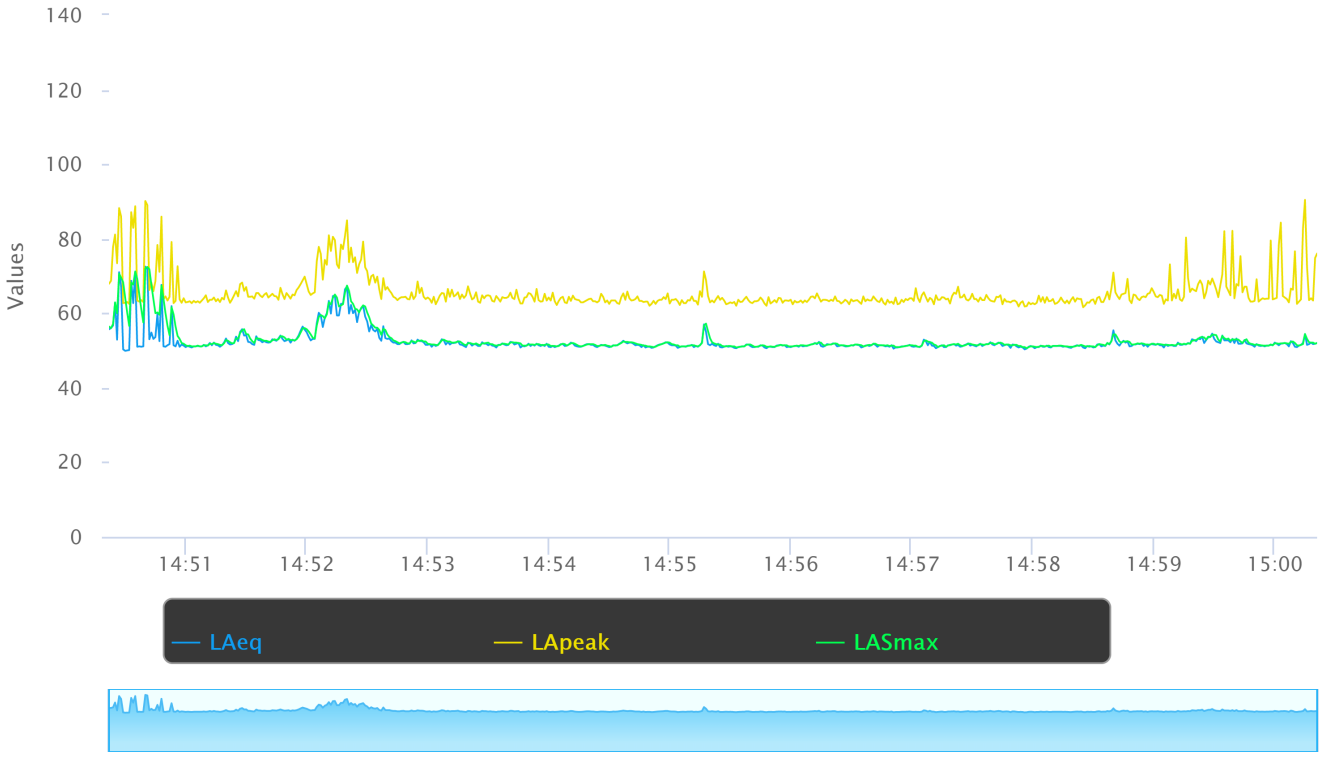
Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	60.6 dB
LAS 10.0	55.6 dB
LAS 33.3	51.9 dB
LAS 50.0	51.6 dB
LAS 66.6	51.3 dB
LAS 90.0	51.0 dB

Time History



Noise Measurement Field Data

Project:	Meines Street and Palm Avenue Warehouse	**Job Number:**	195466001
Site No.:	ST-4	**Date:**	3/28/2023
Analyst:	Skye Hansen and Sarah Miller	**Time:**	3:06 PM - 3:16 PM
Location:	In residential neighborhood to the northeast of the Project site at the intersection of Peacock Avenu		
Noise Sources:	Car pass-bys in residential neighborhood		

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
50.5	41.2	65.7	79.2

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	70
Wind (mph):	7
Sky:	Clear
Bar. Pressure:	30.01
Humidity:	24%

Photo:

Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	ST-.079.s	Computer's File Name	LxTse_0007061-20230328 150640-ST-.079.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Start Time	2023-03-28 15:06:40	Duration	0:10:00.0		
End Time	2023-03-28 15:16:40	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-03-23 11:12:03	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	50.5 dB		
LAE	78.3 dB	SEA	--- dB
EA	7.5 µPa²h		
LA_{peak}	79.2 dB	2023-03-28 15:12:01	
LAS_{max}	65.7 dB	2023-03-28 15:12:01	
LAS_{min}	41.2 dB	2023-03-28 15:09:11	
LA_{eq}	50.5 dB		
LC_{eq}	63.4 dB	LC_{eq} - LA_{eq}	12.9 dB
LAI_{eq}	52.0 dB	LAI_{eq} - LA_{eq}	1.5 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
50.5 dB	50.5 dB	0.0 dB

LDEN	LDay	LEve	LNight
50.5 dB	50.5 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	50.5 dB		63.4 dB		--- dB	
$LS_{(max)}$	65.7 dB	2023-03-28 15:12:01	--- dB	None	--- dB	None
$LS_{(min)}$	41.2 dB	2023-03-28 15:09:11	--- dB	None	--- dB	None
$L_{Peak(max)}$	79.2 dB	2023-03-28 15:12:01	--- dB	None	--- dB	None

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	54.3 dB
LAS 10.0	52.1 dB
LAS 33.3	49.3 dB
LAS 50.0	48.2 dB
LAS 66.6	47.3 dB
LAS 90.0	45.0 dB

Time History

Noise Measurement Field Data

Project:	Meines Street and Palm Avenue Warehouse	**Job Number:**	195466001
Site No.:	ST-5	**Date:**	3/28/2023
Analyst:	Skye Hansen and Sarah Miller	**Time:**	3:22 PM - 3:32 PM
Location:	Near the southeast corner of the Project site, at the corner intersection of Meines Street and Palm Avenue.		
Noise Sources:	Cars on Meines Street and Palm Avenue		
Comments:	Hellicopter flew over noise meter at 3:30 PM		

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
65.4	52.7	79.5	102.9

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	69
Wind (mph):	8
Sky:	Clear
Bar. Pressure:	30.01
Humidity:	25%

Photo:

Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	ST-.080.s	Computer's File Name	LxTse_0007061-20230328 152202-ST-.080.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Start Time	2023-03-28 15:22:02	Duration	0:10:00.0		
End Time	2023-03-28 15:32:02	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-03-23 11:12:03	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	65.4 dB		
LAE	93.2 dB	SEA	--- dB
EA	231.2 µPa²h		
LA_{peak}	102.9 dB	2023-03-28 15:30:34	
LAS_{max}	79.5 dB	2023-03-28 15:30:34	
LAS_{min}	52.7 dB	2023-03-28 15:23:47	
LA_{eq}	65.4 dB		
LC_{eq}	78.7 dB	LC_{eq} - LA_{eq}	13.3 dB
LAI_{eq}	67.8 dB	LAI_{eq} - LA_{eq}	2.4 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
65.4 dB	65.4 dB	0.0 dB

LDEN	LDay	LEve	LNight
65.4 dB	65.4 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	65.4 dB		78.7 dB		--- dB	
$LS_{(max)}$	79.5 dB	2023-03-28 15:30:34	--- dB	None	--- dB	None
$LS_{(min)}$	52.7 dB	2023-03-28 15:23:47	--- dB	None	--- dB	None
$L_{Peak(max)}$	102.9 dB	2023-03-28 15:30:34	--- dB	None	--- dB	None

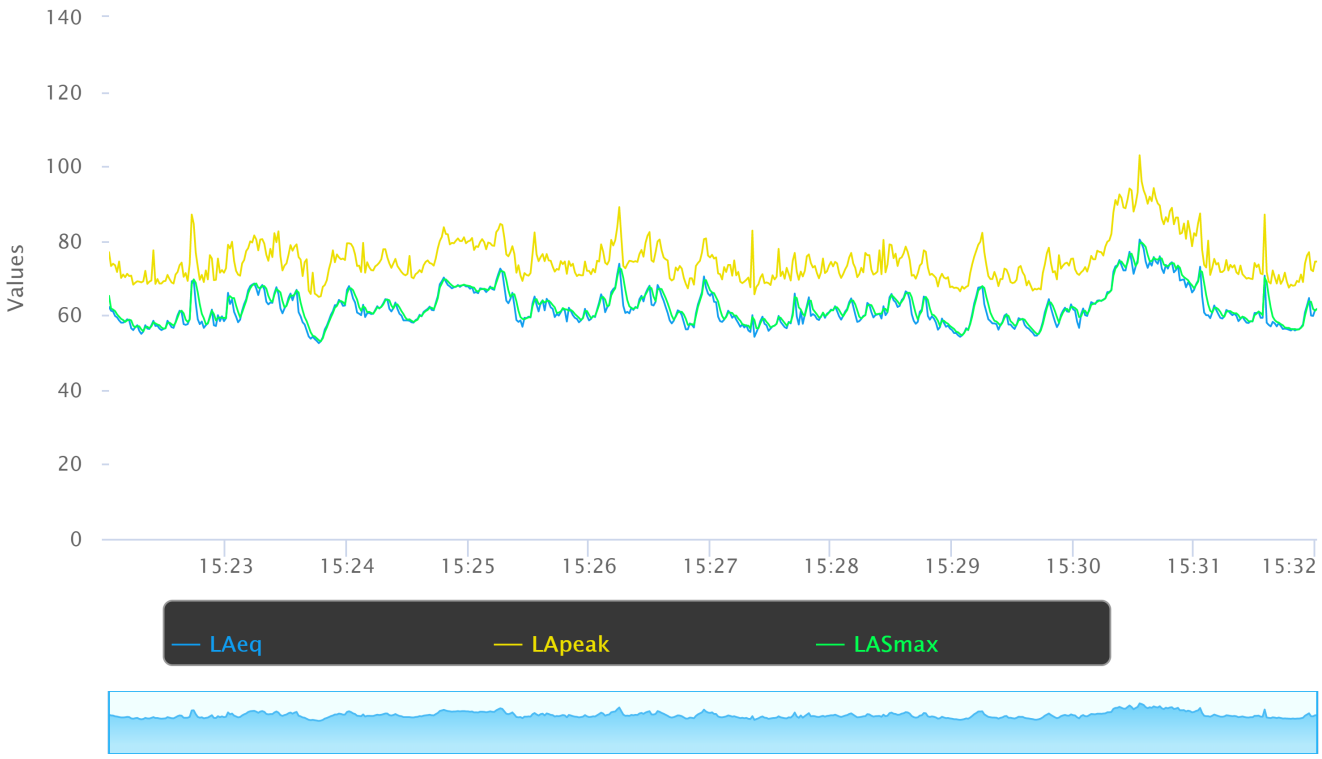
Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	72.4 dB
LAS 10.0	68.0 dB
LAS 33.3	63.0 dB
LAS 50.0	60.9 dB
LAS 66.6	59.4 dB
LAS 90.0	56.9 dB

Time History



Appendix B

Noise Modeling Data

Project: Meines St & Palm Ave Warehouse

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

	Receptor (Land Use)	Distance (feet)	Shielding	Direction
1	Residential	524	0	N
2	Residential	560	0	S
3	Commercial	415	0	S
4	Commercial	593	0	W
5	Industrial	588	0	E
6			0	NE
7			0	SW

						RECEPTOR 1		RECEPTOR 2		RECEPTOR 3		RECEPTOR 4		RECEPTOR 5	
Construction Phase	**Equipment Type**	**No. of Equip.**	**Acoustical Usage Factor**	**Reference Noise Level at 50ft per Unit, Lmax**		**Noise Level at Receptor 1, Lmax**	**Noise Level at Receptor 1, Leq**	**Noise Level at Receptor 2, Lmax**	**Noise Level at Receptor 2, Leq**	**Noise Level at Receptor 3, Lmax**	**Noise Level at Receptor 3, Leq**	**Noise Level at Receptor 4, Lmax**	**Noise Level at Receptor 4, Leq**	**Noise Level at Receptor 5, Lmax**	**Noise Level at Receptor 5, Leq**
Demolition															
	Concrete Saw	1	20%	90		69.2	62.2	68.6	61.6	71.2	64.2	68.1	61.1	68.2	61.2
	Excavator	3	40%	81		65.1	61.1	64.5	60.5	67.1	63.1	64.0	60.0	64.1	60.1
	Dozer	2	40%	82		64.3	60.3	63.7	59.7	66.3	62.3	63.2	59.2	63.3	59.3
Combined LEQ							**66.0**		**65.5**		**68.1**		**65.0**		**65.0**
Site Preparation															
	Dozer	3	40%	82		66.1	62.1	65.5	61.5	68.1	64.1	65.0	61.0	65.1	61.1
	Tractor	4	40%	84		69.6	65.6	69.0	65.1	71.6	67.7	68.5	64.6	68.6	64.6
Combined LEQ							**67.2**		**66.6**		**69.2**		**66.1**		**66.2**
Grading															
	Excavator	2	40%	81		63.3	59.3	62.7	58.7	65.3	61.3	62.2	58.2	62.3	58.3
	Grader	1	40%	85		64.6	60.6	64.0	60.0	66.6	62.6	63.5	59.5	63.6	59.6
	Dozer	1	40%	82		61.3	57.3	60.7	56.7	63.3	59.3	60.2	56.2	60.3	56.3
	Scraper	2	40%	84		66.2	62.2	65.6	61.6	68.2	64.2	65.1	61.1	65.2	61.2
	Tractor	2	40%	84		66.6	62.6	66.0	62.0	68.6	64.6	65.5	61.5	65.6	61.6
Combined LEQ							**67.8**		**67.2**		**69.8**		**66.7**		**66.8**
Infrastructure Improvements															
	Excavator	1	40%	81		60.3	56.3	59.7	55.7	62.3	58.3	59.2	55.2	59.3	55.3
	Tractor	1	40%	84		63.6	59.6	63.0	59.0	65.6	61.6	62.5	58.5	62.6	58.6
	Roller	1	20%	80		59.6	52.6	59.0	52.0	61.6	54.6	58.5	51.5	58.6	51.6
	Paver	1	50%	77		56.8	53.8	56.2	53.2	58.8	55.8	55.7	52.7	55.8	52.8
Combined LEQ							**62.5**		**61.9**		**64.5**		**61.4**		**61.5**
Paving															
	Paver	2	50%	77		59.8	56.8	59.2	56.2	61.8	58.8	58.7	55.7	58.8	55.8
	Pavement Scarafier	2	20%	90		72.1	65.1	71.5	64.5	74.1	67.1	71.0	64.0	71.1	64.1
	Roller	2	20%	80		62.6	55.6	62.0	55.0	64.6	57.6	61.5	54.5	61.6	54.6
Combined LEQ							**66.1**		**65.5**		**68.1**		**65.0**		**65.1**
Building Construction															
	Crane	1	16%	81		60.2	52.2	59.6	51.7	62.2	54.3	59.1	51.2	59.2	51.2
	Tractor	3	40%	84		68.4	64.4	67.8	63.8	70.4	66.4	67.3	63.3	67.4	63.4
	Generator	1	50%	81		60.2	57.2	59.6	56.6	62.2	59.2	59.1	56.1	59.2	56.2
	Tractor	3	40%	84		68.4	64.4	67.8	63.8	70.4	66.4	67.3	63.3	67.4	63.4
	Welder/Torch	1	40%	74		53.6	49.6	53.0	49.0	55.6	51.6	52.5	48.5	52.6	48.6
Combined LEQ							**68.0**		**67.4**		**70.0**		**66.9**		**67.0**
Architectural Coating															
	Compressor (air)	1	40%	78		57.3	53.3	56.7	52.7	59.3	55.3	56.2	52.2	56.3	52.3
Combined LEQ							**53.3**		**52.7**		**55.3**		**52.2**		**52.3**
Overlapping Phases															
Demo/Site Prep/Grading							71.9		71.3		73.9		70.8		70.9
Infra/Paving/Building							70.8		70.3		72.9		69.8		69.8
Arch/Paving/Building							70.2		69.7		72.3		69.2		69.2
Maximum Noise Level							**71.9**		**71.3**		**73.9**		**70.8**		**70.9**

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Meines Street & Palm Avenue Warehouse
Project Number: 195466001
Scenario: Existing
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

										Vehicle Mix		Distance from Centerline of Roadway		
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Palm Avenue	Meines Street to 5th Street	5	1	15,810	45	0	1.8%	0.3%	64.5	-	89	280	887
2	Palm Avenue	5th Street to 3rd Street	4	1	18,320	45	0	3.7%	2.8%	67.6	57	182	574	1,816
3	Meines Street	West of Palm Avenue	2	0	640	35	0	0.6%	5.0%	51.4	-	-	-	44
4	5th Street	Palm Avenue to Church Avenue	4	12	21,170	45	0	4.3%	2.6%	68.3	68	215	680	2,150
5	5th Street	Church Avenue to SR-210 EB Ramps at 5th Street	4	12	21,670	45	0	4.0%	2.5%	68.3	67	211	669	2,115
6	3rd Street	Palm Avenue to Church Avenue	2	0	700	35	0	24.0%	10.2%	56.7	-	-	47	149

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Meines Street & Palm Avenue Warehouse
Project Number: 195466001
Scenario: Opening Year
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

							Vehicle Mix			Distance from Centerline of Roadway			
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Palm Avenue	Meines Street to 5th Street	5	1	17,680	45	0	1.8%	0.3%	65.0	-	99	314	991
2	Palm Avenue	5th Street to 3rd Street	4	1	14,770	45	0	3.7%	2.8%	66.7	46	146	463	1,464
3	Meines Street	West of Palm Avenue	2	0	640	35	0	0.6%	5.0%	51.4	-	-	-	44
4	5th Street	Palm Avenue to Church Avenue	4	12	21,260	45	0	4.3%	2.6%	68.3	68	216	683	2,159
5	5th Street	Church Avenue to SR-210 EB Ramps at 5th Street	4	12	28,190	45	0	4.0%	2.5%	69.4	87	275	870	2,751
6	3rd Street	Palm Avenue to Church Avenue	2	0	6,870	35	0	24.0%	10.2%	66.7	46	146	463	1,464

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Meines Street & Palm Avenue Warehouse
Project Number: 195466001
Scenario: Opening Year Plus Project
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

							Vehicle Mix			Distance from Centerline of Roadway			
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Palm Avenue	Meines Street to 5th Street	5	1	18,140	45	0	2.0%	0.3%	65.2	-	106	334	1,057
2	Palm Avenue	5th Street to 3rd Street	4	1	14,840	45	0	3.7%	2.8%	66.7	46	147	465	1,469
3	Meines Street	West of Palm Avenue	2	0	790	35	0	3.8%	9.4%	54.9	-	-	-	97
4	5th Street	Palm Avenue to Church Avenue	4	12	21,590	45	0	4.4%	2.8%	68.5	71	225	712	2,250
5	5th Street	Church Avenue to SR-210 EB Ramps at 5th Street	4	12	28,570	45	0	4.1%	2.6%	69.6	90	286	904	2,858
6	3rd Street	Palm Avenue to Church Avenue	2	0	6,920	35	0	22.6%	9.6%	66.5	44	140	442	1,398

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

Appendix J

Traffic Study

Traffic Study

for the:

Meines Street and Palm Avenue Warehouse Project

In the City of Highland

May 2023

Kimley»Horn

TRAFFIC STUDY
FOR THE PROPOSED
MEINES STREET AND PALM AVENUE WAREHOUSE PROJECT
IN THE CITY OF HIGHLAND

Prepared by:

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May 2023

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TRAFFIC STUDY
FOR THE PROPOSED
MEINES STREET AND PALM AVENUE WAREHOUSE PROJECT
IN THE CITY OF HIGHLAND

INTRODUCTION

Purpose and Study Objectives

This traffic study has been prepared to address the traffic-related effects of the proposed Meines Street and Palm Avenue Warehouse Project ("Project") in the City of Highland. This traffic study has been conducted in accordance with the traffic study requirements of the City of Highland's *Public Works Policies, Procedures and Standards* (September 2016) and the San Bernardino Association of Governments (SANBAG) Congestion Management Program (CMP) (June 2016).

This report includes a description of existing traffic conditions in the surrounding area, estimated project trip generation and distribution, future traffic growth, and an assessment of project-related effects on the roadway system. Where necessary, circulation system improvements have been identified to address project-related effects at the study locations.

Project Overview

The project site is located on the northwest corner of the intersection of Meines Street and Palm Avenue in the City of Highland. The project site is approximately 12.8 acres and is bounded by a creek to the north, Palm Avenue to the east, Meines Street to the south, and light industrial to the west. The site is shown in its regional setting on **Figure 1**. The project site is currently occupied by a mix of industrial uses and one single-family home. The project consists of the demolition of the existing uses and the construction of a warehouse building totaling approximately 284,917 square feet (SF). A copy of the project site plan is provided on **Figure 2.**

Direct vehicular access provisions for the project site would be provided via two driveways on Palm Avenue and one driveway on Meines Street. Trucks would enter and exit the site via the north driveway on Palm Avenue and the driveway on Meines Street. Trucks would be restricted from making left-turns out of the site onto Palm Avenue. Passenger vehicles would have full access at all three project driveways to enter and exit the site.

FIGURE 1
VICINITY MAP

NOT TO SCALE

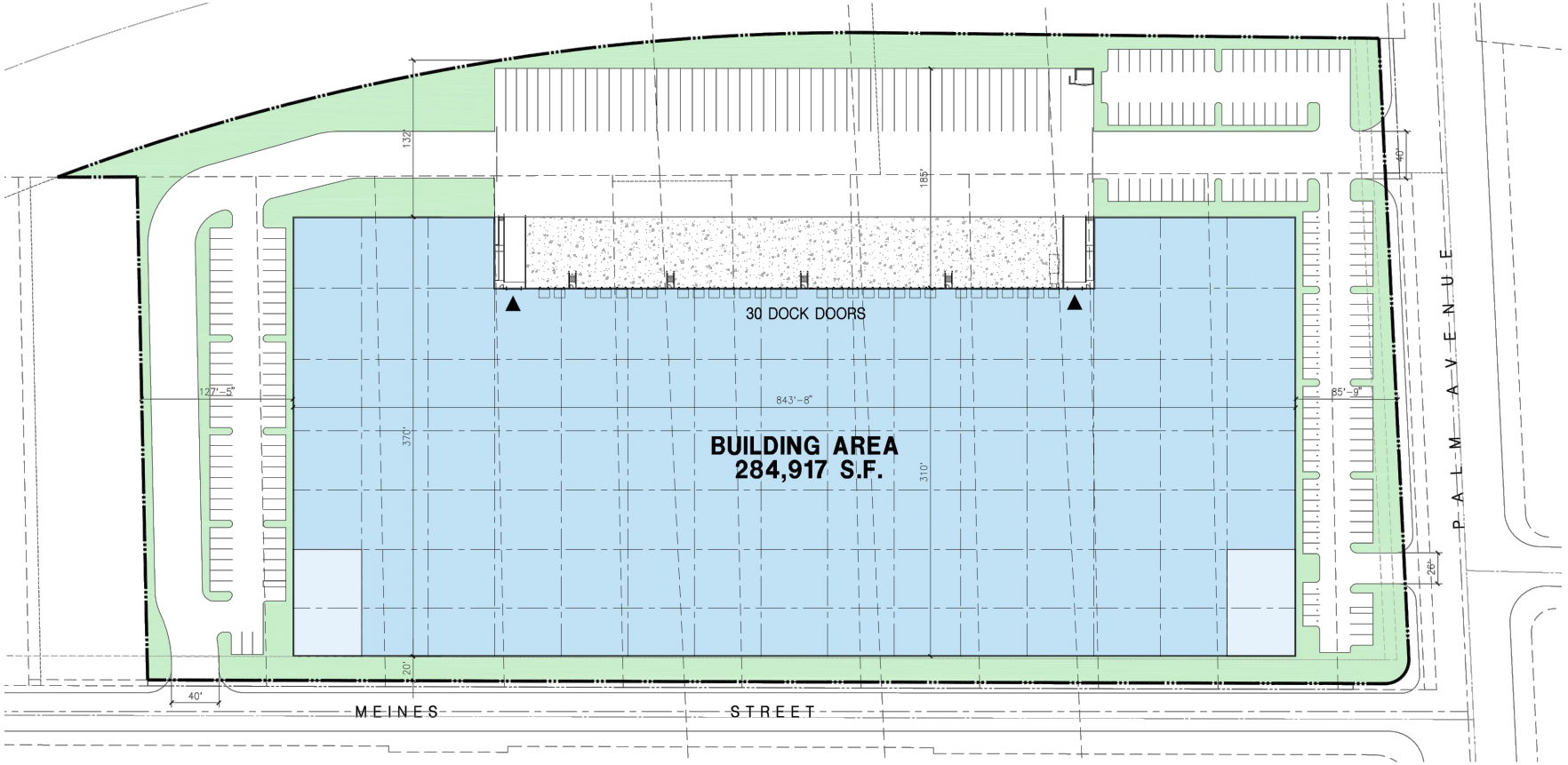


FIGURE 2
PROJECT SITE PLAN

ANALYSIS SCENARIOS AND METHODOLOGY

Analysis Scenarios

The project will be evaluated in the morning (AM) and evening (PM) peak hours for the following conditions:

- Existing Conditions
- Opening Year 2024 Cumulative
- Opening Year 2024 Cumulative Plus Project

Intersection Analysis – HCM Methodology

Peak hour intersection operations at signalized and unsignalized intersections were evaluated using the methods prescribed in the current (7th Edition) Highway Capacity Manual (HCM), consistent with the City's requirements. The intersection analysis for the proposed project has been accomplished using the Vistro software program and using the specified input parameters outlined in the San Bernardino County CMP.

For signalized intersections, the HCM methodology estimates the average delay (in average seconds per vehicle) for each of the movements through the intersection, considering a number of factors, including the number of lanes, volume of traffic, and the signal timing phasing.

For unsignalized intersections, the HCM methodology analysis determines the average total delay for each vehicle making any movement from the stop-controlled minor street, as well as left turns from the major street. Delay values are calculated based on the relationship between traffic on the major street and the availability of acceptable gaps in the traffic stream through which conflicting traffic movements can be made.

The HCM delay forecast translates to a Level of Service designation, ranging from LOS A to LOS F. A summary of each Level of Service (LOS) and the corresponding delay is provided in the following charts:

LEVEL OF SERVICE DEFINITIONS	
Level of Service	**Description**
A	No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication. Typically, the approach appears quite open, turns are made easily and nearly all drivers find freedom of operation.
B	This service level represents stable operation, where an occasional approach phase is fully utilized, and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.
C	This level still represents stable operating conditions. Occasionally drivers may have to wait through more than one red signal indication, and backups may develop behind turning vehicles. Most drivers feel somewhat restricted but not objectionably so.
D	This level encompasses a zone of increasing restriction, approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak period; however, enough cycles with lower demand occur to permit periodic clearance of developing queues, thus preventing excessive backups.
E	Capacity occurs at the upper end of this service level. It represents the most vehicles that any particular intersection approach can accommodate. Full utilization of every signal cycle is seldom attained no matter how great the demand.
F	This level describes forced flow operations at low speeds, where volumes exceed capacity. These conditions usually result from queues of vehicles backing up from a restriction downstream. Speeds are reduced substantially, and stoppages may occur for short or long periods of time due to the congestion. In the extreme case, both speed and volume can drop to zero.

LEVEL OF SERVICE CRITERIA FOR SIGNALIZED AND UNSIGNALIZED INTERSECTIONS		
Level of Service	**Signalized Intersection (Average delay per vehicle, in seconds) [1]**	**Unsignalized Intersections (Average delay per vehicle, in seconds) [2]**
A	≤ 10	0 – 10
B	> 10 – 20	> 10 – 15
C	> 20 – 35	> 15 – 25
D	> 35 – 55	> 25 – 35
E	> 55 – 80	> 35 – 50
F	> 80	> 50

[1] Source: Highway Capacity Manual (HCM 7th Edition), Exhibit 19-8.

[2] Source: Highway Capacity Manual (HCM 7th Edition), Exhibit 20-2.

Level of Service Standards and Measure of Significance

The LOS standard for intersections in the City of Highland is LOS D or better for peak hour operations and LOS C or better for roadway segments. Based on the City of Highland's *Public Works Policies, Procedures and Standards* (September 2016), all intersection levels of service below "D" and all roadway segment levels of service below "C" shall be mitigated.

If the project traffic causes operations at an intersection to go from an acceptable to an unacceptable LOS, the project would have a project-related effect at the intersection. Where necessary, recommended improvements will be identified to achieve acceptable intersection operation at deficient study intersections.

Study Area

This traffic study includes documentation of existing conditions, future conditions, and identification of project-related effects at the following study intersections:

Intersections:

1. Palm Avenue at Meines Street
2. Palm Avenue at 5th Street
3. Palm Avenue at 3rd Street
4. Church Avenue at 5th Street
5. SR-210 EB Ramps at 5th Street

D1. Palm Avenue at North Project Driveway
D2. Palm Avenue at Meines Court/South Project Driveway
D3. Meines Street at Project Driveway

The study intersections were established in consultation with City of Highland staff through the Scoping Agreement process. A copy of the approved Scoping Agreement is provided in **Appendix A.**

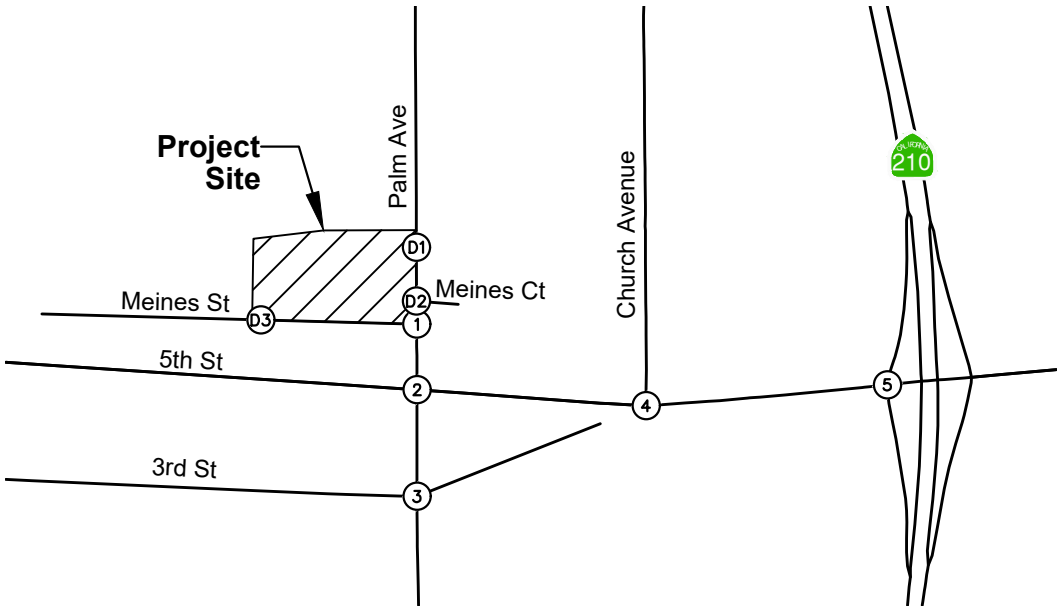
AREA CONDITIONS

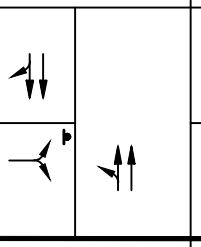
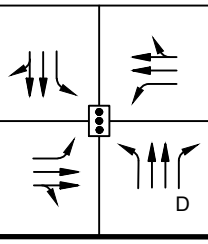
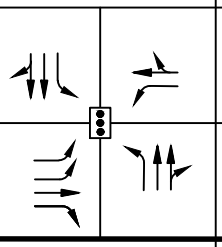
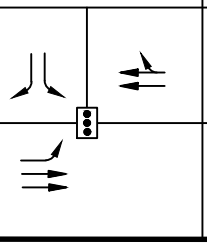
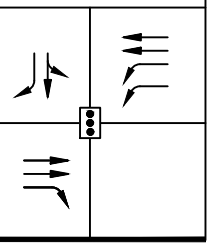
Existing Street System

Regional access to the site is provided primarily by the State Route 210 (SR-210) Highway, located approximately 0.5 miles east of the project site. Local access to the project area is provided primarily via Meines Street and Palm Avenue.

Existing lane configurations and intersection controls at the study intersections are shown on **Figure 3**. A copy of the City of Highland Roadway Network is provided on **Figure 4**. The following provides a description of the roadways surrounding the project site.

NOT TO SCALE



1. Palm Avenue at Meines Street	2. Palm Avenue at 5th Street	3. Palm Avenue at 3rd Street	4. Church Avenue at 5th Street	5. SR-210 EB Ramps at 5th Street
				

D1. Palm Avenue at North Project Driveway	D2. Palm Avenue at Meines Court/ South Project Driveway	D3. Meines Street at Project Driveway
FUTURE INTERSECTION	FUTURE INTERSECTION	FUTURE INTERSECTION

LEGEND:
X = Study Intersection
= Turn or Through Lane
= Signal
= Stop Sign
D = Defacto Right Turn

FIGURE 3
EXISTING LANE CONFIGURATION AND TRAFFIC CONTROL

NOT TO SCALE

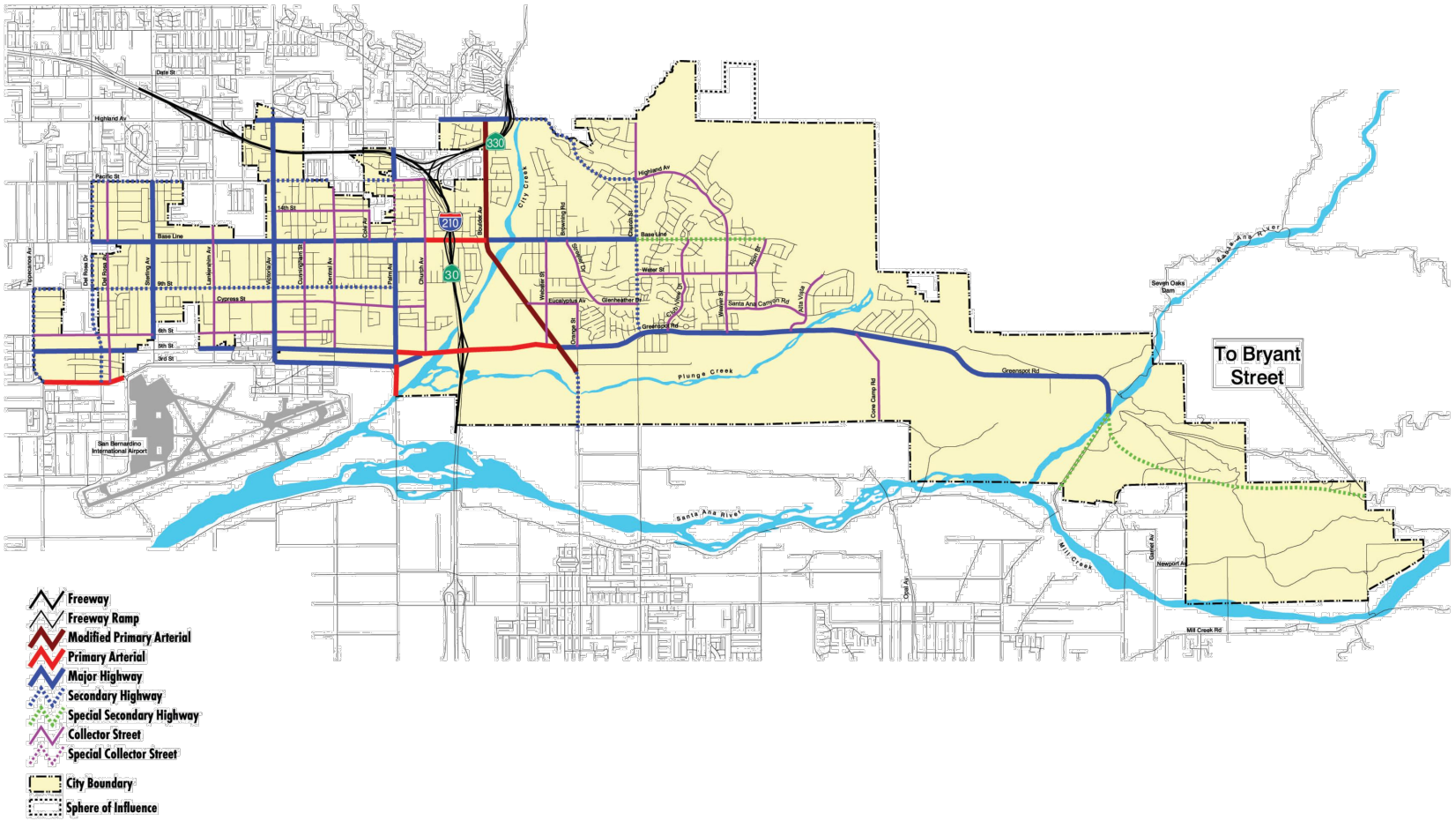


FIGURE 4
CITY OF HIGHLAND ROADWAY NETWORK

Palm Avenue is a north-south divided roadway with two vehicle lanes and one bicycle lane in each direction and a center left-turn lane within the project vicinity. The posted speed limit is 45 miles per hour (mph), and on-street parking is prohibited on both sides. In the City of Highland General Plan (March 2006), Palm Avenue is designated as a Major Highway, which includes a raised median. A raised median has not been constructed along Palm Avenue in the study area.

Meines Street is an east-west undivided roadway with one lane in each direction. There is no posted speed limit, and on-street parking is permitted on both sides.

Church Avenue is a north-south undivided roadway with one lane in each direction within the project vicinity. The posted speed limit is 35 mph, and on-street parking is generally permitted on both sides. In the City of Highland General Plan, Church Avenue is designated as a Collector Street.

5th Street is an east-west divided roadway with two vehicle lanes and one bicycle lane in each direction and a center left-turn lane within the project vicinity. The posted speed limit is 45 mph, and on-street parking is prohibited on both sides. In the City of Highland General Plan, 5th Street is designated as a Major Highway west of Palm Avenue and a Primary Arterial east of Palm Avenue, which includes a raised median. A raised median has not been constructed along 5th Street in the study area. It should be noted that 5th Street has not been built out as a Primary Arterial east of Palm Avenue.

3rd Street is an east-west divided roadway with currently two lanes in each direction and a center left-turn lane west of Palm Avenue and one lane in each direction east of Palm Avenue within the project vicinity. There is no posted speed limit, and on-street parking is prohibited on both sides. In the City of Highland General Plan, 3rd Street is designated as a Major Highway, which includes a raised median. A raised median has not been constructed along 3rd Street in the study area.

3rd Street currently dead-ends southwest of the intersection of 5th Street at Church Avenue, in the City of Highland. The City has approved an improvement project that will connect 3rd Street to 5th Street to the east and west of Church Avenue. The future connection to the east of Church Avenue will allow eastbound traffic on 3rd Street to merge onto eastbound 5th Street. The connection to the west of Church Avenue will allow eastbound traffic on 5th Street to make a free right turn from 5th Street to westbound 3rd Street. This improvement was analyzed under the Opening Year 2024 Cumulative conditions. A copy of the planned improvement is provided in *Appendix B*.

Existing Transit Service

Transit service to the project area is provided by OmniTrans, which serves San Bernardino County. The OmniTrans bus stop closest to the project site is located northeast of the intersection of Palm Avenue and Meines Court. A description of the bus route serving the project is provided on the following page.

OmniTrans Route 15 operates through the Cities of Fontana, Rialto, San Bernardino, Highland, and Redlands, traveling along Palm Avenue and 5th Street in the project vicinity. Route 15 operates weekdays from approximately 4:05 AM to 10:15 PM with approximately 1-hour headways, and weekends from approximately 5:35 AM to 7:20 PM with approximately 1-hour headways.

EXISTING CONDITIONS

Existing Traffic Volumes

Based on discussions with City staff and due to current construction within the study area, historical morning and evening peak hour turning movement counts (dated 2018) were used at the study intersections. A 3.0% annual ambient growth rate was applied to the historical traffic counts up to existing year 2023.

Historical counts were not provided for intersection #1 (Palm Avenue at Meines Street). Existing morning and evening peak hour turning movement counts were conducted in February 2023 at intersection #1 (Palm Avenue at Meines Street) and intersection #2 (Palm Avenue at 5th Street). Based on review of historical and existing counts at intersection #2, an adjustment factor of 39% was applied to the existing volumes at intersection #1.

Existing adjusted morning and evening peak hour intersection volumes are presented on Figure 5. Copies of the traffic data collection worksheets are provided in *Appendix C*.

The traffic counts included vehicle classifications for passenger cars, 2-axle trucks, 3-axle trucks, and 4+-axle trucks. The vehicle classification data was used to develop Passenger Car Equivalent (PCE) volumes by applying a PCE factor of 1.5 PCE for 2-axle trucks, 2.0 PCE for 3-axle trucks, and 3.0 for 4+-axle trucks. PCE worksheets are provided in *Appendix D*.

Peak Hour Operating Conditions

Intersection LOS analysis was conducted for the morning and evening peak hours using the analysis procedures and assumptions described previously in this report. The results of the intersection analysis for Existing Conditions are shown on Table 1. Copies of Existing Conditions intersection analysis worksheets are provided in *Appendix E*.

Review of this table indicates the following study intersection currently operates at an unacceptable LOS:

- #2 – Palm Avenue at 5th Street: PM – LOS F

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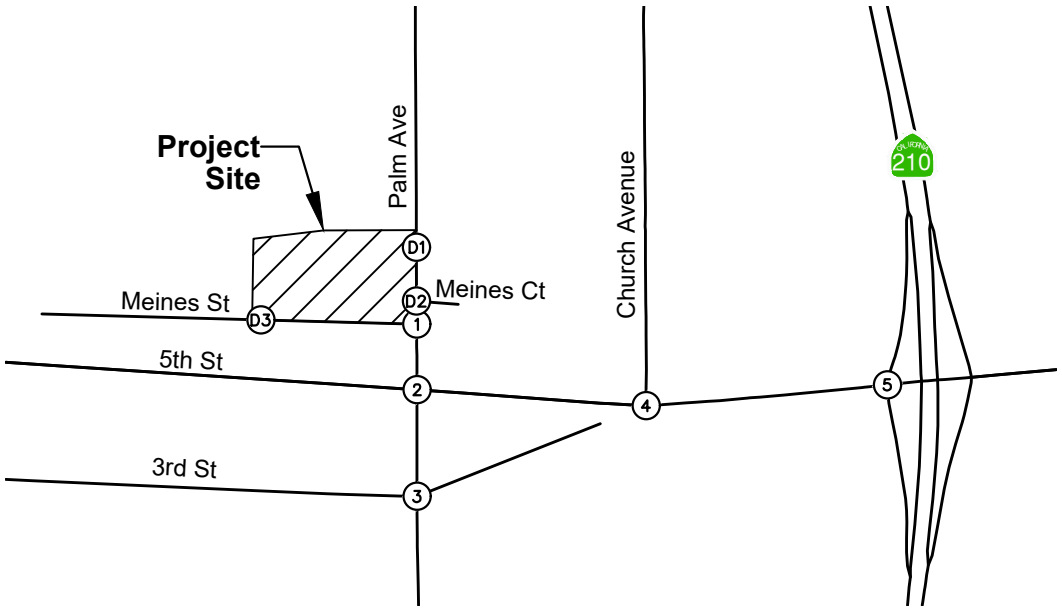


1. Palm Avenue at Meines Street	2. Palm Avenue at 5th Street	3. Palm Avenue at 3rd Street	4. Church Avenue at 5th Street	5. SR-210 EB Ramps at 5th Street
11/14 ↘ 806/639 ↙ 4/17 → 10/22 ↘ 11/11 ↑ 363/909 ↑	82/33 ↘ 664/283 ↓ 143/199 ↙ 104/152 ← 649/282 ← 407/213 ← 11/79 → 230/800 → 70/69 ↘ 37/100 ↑ 171/651 ↑ 270/611 ↑	168/94 ↘ 913/448 ↓ 37/12 ↙ 53/26 ← 5/3 ← 8/12 ← 118/481 → 3/40 → 192/412 ↘ 191/212 ↑ 405/881 ↑ 8/8 ↑	96/35 ↘ 175/91 ↙ 80/88 ← 1119/581 ← 27/67 → 613/1504 →	135/133 ↘ 8/7 ↓ 137/355 ↙ 1088/546 ← 852/319 ← 363/1066 → 436/560 ↘

D1. Palm Avenue at North Project Driveway	D2. Palm Avenue at Meines Court/ South Project Driveway	D3. Meines Street at Project Driveway
817/653 ↓ 367/926 ↑	817/653 ↓ 367/926 ↑	22/25 ← 14/39 →

Note: Volumes reflect PCE adjustments.

LEGEND:

(X) = Study Intersection

XX/YY = AM/PM Peak Hour Turning Movement Volumes

FIGURE 5
EXISTING TRAFFIC VOLUMES

TABLE 1
SUMMARY OF INTERSECTION OPERATION
EXISTING CONDITIONS

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
1	Palm Avenue at Meines Street	U	18.8	C	17.4	C
2	Palm Avenue at 5th Street	S	39.4	D	81.3	**F**
3	Palm Avenue at 3rd Street	S	29.5	C	37.3	D
4	Church Avenue at 5th Street	S	13.4	B	8.4	A
5	SR-210 EB Ramps at 5th Street	S	25.7	C	30.0	C

Notes:
- **Bold** and grey values indicate intersections operating at an unacceptable Level of Service
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

S = Signalized
U = Unsignalized

FUTURE CONDITIONS

Opening Year 2024 Cumulative

The project Opening Year is anticipated to be Year 2024. Based on consultation with City staff, an ambient annual growth rate of 2.0% per year to Opening Year 2024 was applied to the existing traffic volumes.

As noted earlier in the report, 3rd Street currently dead-ends southwest of the intersection of 5th Street at Church Avenue, in the City of Highland. The City has approved an improvement project that will connect 3rd Street to 5th Street to the east and west of Church Avenue. The future connection to the east of Church Avenue will allow eastbound traffic on 3rd Street to merge onto eastbound 5th Street. The connection to the west of Church Avenue will allow eastbound traffic on 5th Street to make a free right turn from 5th Street to westbound 3rd Street. This improvement was analyzed under the Opening Year 2024 Cumulative conditions. A copy of the planned improvement is provided in *Appendix B*. As a result of this improvement, the northbound right-turn volumes at the intersection of Palm Avenue at 5th Street (#2) have been reduced to account for this new connection. It is assumed that 75% of the existing northbound right-turn volumes at intersection #2 will be removed and shifted evenly to the eastbound through and northbound right-turn volumes at the intersection of Palm Avenue at 3rd Street (#3) under Opening Year 2024 Cumulative conditions. In addition, existing trips were removed evenly from the eastbound left-turn and northbound through volumes at the intersection of Palm Avenue at 3rd Street (#3) under Opening Year 2024 Cumulative conditions to account for this change in travel pattern.

Cumulative Project traffic was also added to Opening Year 2024 volumes and is detailed below.

Cumulative Projects

In addition to ambient growth, Cumulative Project traffic volumes are added to existing traffic volumes. Information regarding cumulative projects in the area was provided by the City of Highland and the City of San Bernardino. Cumulative Projects consist of development projects that have been approved but are not yet constructed/occupied, and projects that are in various stages of the application and approval process but have not yet been approved. A summary of Cumulative Projects in the project vicinity and the trip generation associated with each is provided on Table 2. The locations of the Cumulative Projects are shown on Figure 6.

Trip generation information for the Cumulative Projects was obtained from approved traffic studies, where available; or was developed by Kimley-Horn if approved traffic studies were not available. Likewise, trip distribution and assignment for the Cumulative Projects were either obtained from approved traffic studies, where available; or were developed by Kimley-Horn if approved traffic studies were not available. It should be noted that no traffic studies for approved cumulative projects were available. Project information and trip distribution assumptions for Cumulative Projects are provided in *Appendix F*. Traffic volumes associated with Cumulative Projects were compiled for each of the study intersections and are shown on Figure 7.

TABLE 2
SUMMARY OF CUMULATIVE PROJECTS TRIP GENERATION

Project #	Location/Description	Land Use	Quantity	Unit	Trip Generation Estimates						
					Daily	AM Peak Hour			PM Peak Hour		
						In	Out	Total	In	Out	Total
City of Highland											
1	Gas Station (Food 4 Less)	Gasoline/Service Station	14	Fueling Position	2,408	72	72	144	97	97	194
2	Victoria Square	Strip Retail Plaza (<40k)	22.034	KSF	1,200	31	21	52	73	73	146
3	Hispano Investors	Single-Family Detached Housing	17	DU	160	3	9	12	10	6	16
4	Highland Heights	Single-Family Detached Housing	35	DU	330	6	18	24	21	12	33
5	Senior Assisted Living	Senior Adult Housing-Multifamily	60	Occ. DU	194	4	8	12	9	6	15
6	O'Reilly Auto Parts	Automobile Parts Sales	7.384	KSF	403	10	8	18	17	19	36
7	Panda Express	Fast-Food Restaurant w/ Drive-thru	2.600	KSF	1,215	59	57	116	45	41	86
	Jack in the Box	Fast-Food Restaurant w/ Drive-thru	2.543	KSF	1,189	58	56	114	44	40	84
8	Smart & Final	Supermarket	27.500	KSF	2,581	46	32	78	123	123	246
9	Arco AM/PM Carwash	Automated Car Wash	2.080	KSF	-	-	-	-	15	15	30
10	Family Dollar	Variety Store (AKA dollar-type store)	8.500	KSF	541	14	12	26	29	28	57
11	Housing Authority	Senior Adult Housing-Multifamily	90	Occ. DU	292	6	12	18	14	9	23
12	Patriot Partners Warehouse	Warehousing	306.000	KSF	523	40	12	52	15	40	55
13	Roquet Offices	General Office Building	43.124	KSF	467	58	8	66	11	52	63
14	Greenspot Village & Marketplace Specific Plan	Shopping Center (>150k)	680.000	KSF	25,167	354	217	571	1,110	1,202	2,312
		Multifamily Housing (Low-Rise)	400	DU	2,696	38	122	160	128	76	204
15	Greenspot Crossings/Marketplace	Shopping Plaza (40-150k)	90.000	KSF	8,504	197	121	318	390	423	813
		Multifamily Housing (Low-Rise)	200	DU	1,348	19	61	80	64	38	102
16	East Highlands Ranch PA 39	Single-Family Detached Housing	13	DU	123	2	7	9	8	5	13
17	San Carlo Townhome Apartments	Multifamily Housing (Low-Rise)	200	DU	1,348	19	61	80	64	38	102
18	Glenrose Ranch Planned Development	Single-Family Detached Housing	121	DU	1,141	22	63	85	72	42	114
19	Express Carwash	Automated Car Wash	1.811	KSF	-	-	-	-	13	13	26
20	Gas Station	Convenience Store/Gasoline Station	8	Fueling Position	2,121	64	64	128	74	74	148
21	Mountain Mikes Pizza, Wingstop, Jamba Juice, & Jersey Mikes	Fast-Food Restaurant w/o Drive-thru	6.300	KSF	2,838	158	114	272	105	105	210
22	Wood Bridge Planned Development	Single-Family Detached Housing	130	DU	1,226	24	67	91	77	45	122
23	East Highlands Ranch PA 40/42	Single-Family Detached Housing	137	DU	1,292	25	71	96	81	48	129
24	7-Eleven Gas Station and Mini Mart	Convenience Store/Gasoline Station	12	Fueling Position	3,181	96	96	192	111	111	222
25	Harikrishna Commercial/Retail Development	Convenience Store/Gasoline Station	15	Fueling Position	3,977	120	120	240	138	138	276
City of San Bernardino											
26	Warmington Residential at Northwest Corner of Highland Avenue & Palm Avenue	Single-Family Attached Housing	133	DU	958	20	44	64	43	33	76
27	The Landing by San Manuel at Southeast Corner of 3rd Street & Victoria Avenue	Warehousing	1,153.644	KSF	1,973	151	45	196	58	150	208
Total Project Trips					**69,396**	**1,716**	**1,598**	**3,314**	**3,059**	**3,102**	**6,161**

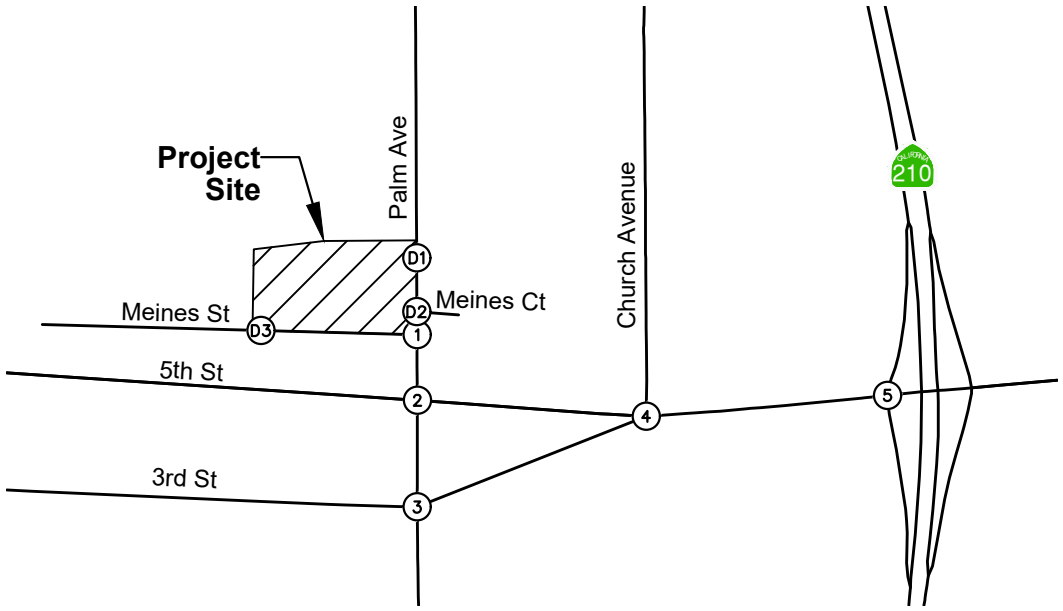
KSF = Thousand Square Feet, DU = Dwelling Units

LEGEND:

(X) = Cumulative Project

FIGURE 6
LOCATION OF CUMULATIVE PROJECTS

NOT TO SCALE



1. Palm Avenue at Meines Street	2. Palm Avenue at 5th Street	3. Palm Avenue at 3rd Street	4. Church Avenue at 5th Street	5. SR-210 EB Ramps at 5th Street
←66/78 66/78→	12/14 ↓ 18/23 ↓ 36/41 ↓ 36/41 ← 122/143 ← 92/67 ← 12/14 → 73/187 → 3/4 → 3/4 ↑ 18/23 ↑ 50/104 ↑	82/53 ↓ 12/14 ↓ 40/90 → 12/14 ↑	9/13 ↓ 9/13 ← 251/251 ← 159/332 →	79/57 ↓ 48/111 ↓ 180/208 ← 50/107 ← 116/245 → 52/99 →

D1. Palm Avenue at North Project Driveway	D2. Palm Avenue at Meines Court/ South Project Driveway	D3. Meines Street at Project Driveway
←18/23 18/23→	6/9 ↓ 12/14 ↓ 12/14 ← 60/69 ← 6/9 ↑ 60/69 ↑	

LEGEND:

(X) = Study Intersection

XX/YY = AM/PM Peak Hour Turning Movement Volumes

FIGURE 7
CUMULATIVE PROJECTS TRAFFIC VOLUMES

The ambient growth and the project-related traffic volumes from the Cumulative Projects were added to the Existing peak hour volumes to develop Opening Year 2024 Cumulative traffic forecasts. The resulting traffic volumes are shown on **Figure 8**.

Peak Hour Operating Conditions

Intersection LOS analysis was conducted for the morning and evening peak hours using the analysis procedures and assumptions described previously in this report. The results of the intersection analysis for Opening Year 2024 Cumulative conditions are shown on **Table 3**. Copies of Opening Year 2024 Cumulative intersection analysis worksheets are provided in ***Appendix E***.

Review of this table indicates the following study intersections would operate at an unacceptable LOS:

- #2 – Palm Avenue at 5th Street: PM – LOS F
- #5 – SR-210 EB Ramps at 5th Street: PM – LOS E

PROJECT TRAFFIC

Trip Generation

Trip generation estimates for the proposed project are based on daily and peak hourly trip generation rates obtained from the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition) for the following use:

- ITE Land Use 150: Warehousing

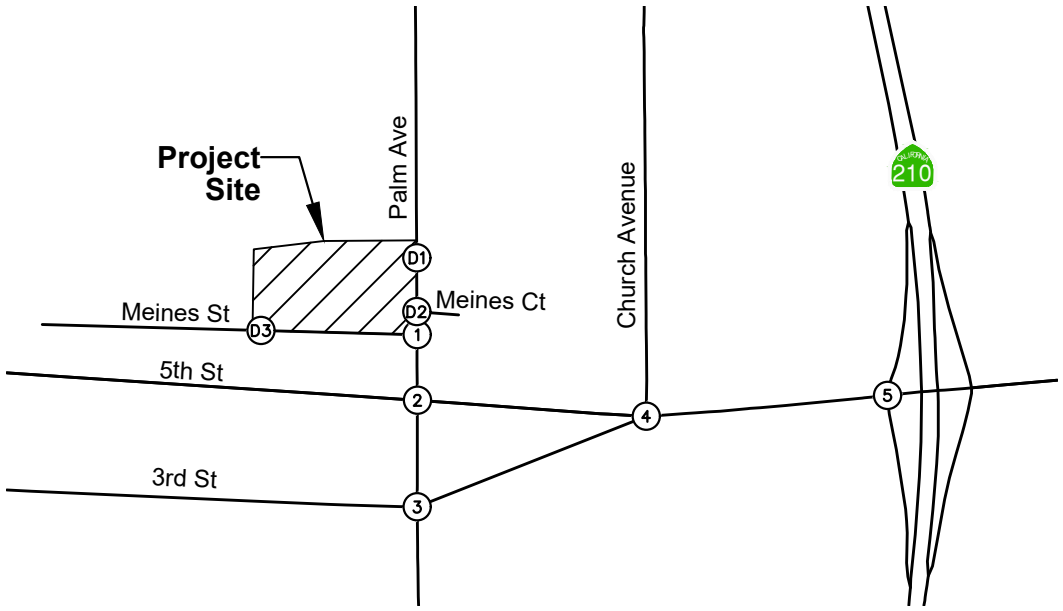
Passenger vehicle and truck mix assumptions were applied to the project land uses based on the ITE Trip Generation Manual (10th Edition, Supplement) and the City of Fontana Truck Trip Generation Study (2003). Passenger car equivalent (PCE) factors were then applied to the truck types, based on number of axles (1.5 PCE for 2-axle trucks, 2.0 PCE for 3-axle trucks, and 3.0 PCE for 4+-axle trucks) to determine the total PCE volumes to be generated by the project. The trip generation rates, PCE factors, and the resulting trip generation estimates for the project are summarized on **Table 4**. Based on Table 4, the total project is estimated to generate 686 daily PCE trips, with 68 PCE trips (53 inbound and 15 outbound) in the morning peak hour and 73 PCE trips (20 inbound and 53 outbound) in the evening peak hour.

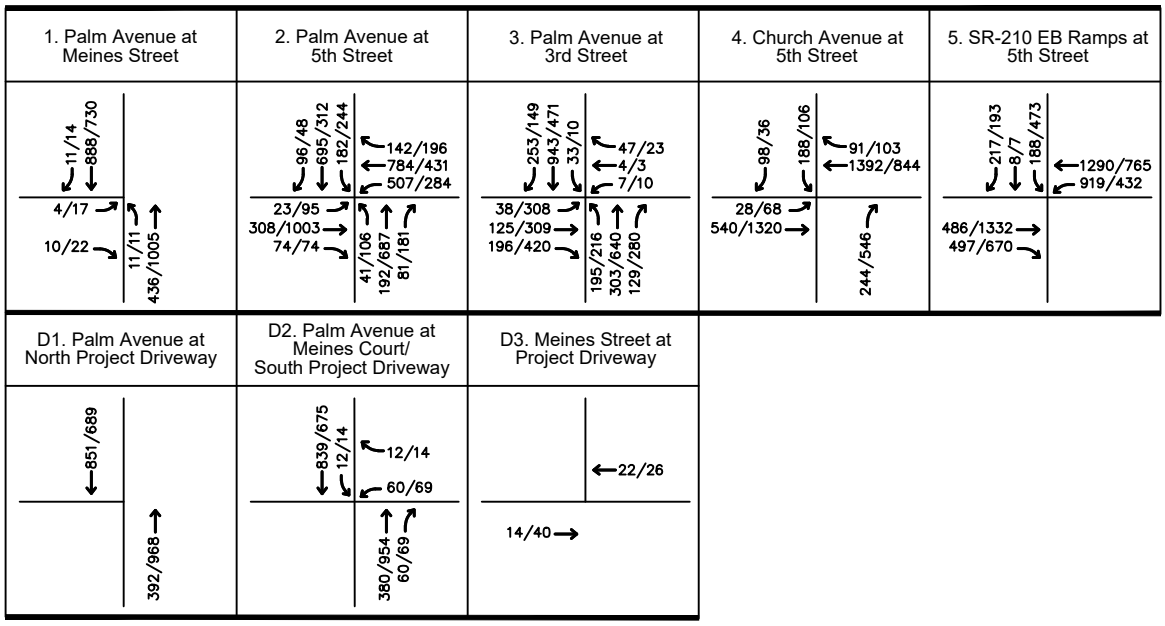
Trip Distribution and Assignment

Project trip distribution assumptions for the project site were developed considering the proposed site use and routes to and from the freeway system. Trip distribution assumptions for the proposed project are shown on **Figure 9**.

Trip distribution percentages at each study intersection were applied to the project trip generation to determine the project trips through each intersection. The resulting project-related peak hour trips are shown on **Figure 10.**

NOT TO SCALE





Note: Volumes reflect PCE adjustments.

LEGEND:

(X) = Study Intersection

XX/YY = AM/PM Peak Hour Turning Movement Volumes

FIGURE 8
OPENING YEAR 2024 CUMULATIVE TRAFFIC VOLUMES

TABLE 3
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2024 CUMULATIVE

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
1	Palm Avenue at Meines Street	U	20.7	C	19.1	C
2	Palm Avenue at 5th Street	S	45.7	D	110.5	**F**
3	Palm Avenue at 3rd Street	S	30.0	C	36.9	D
4	Church Avenue at 5th Street	S	19.9	B	24.6	C
5	SR-210 EB Ramps at 5th Street	S	40.4	D	63.5	**E**

Notes:
- **Bold** and grey values indicate intersections operating at an unacceptable Level of Service
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

S = Signalized
U = Unsignalized

TABLE 4
SUMMARY OF PROJECT TRIP GENERATION
MEINES STREET AND PALM AVENUE WAREHOUSE PROJECT

TRIP GENERATION RATES

ITE Land Use	ITE Code	Unit	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Warehousing	150	KSF	1.710	0.131	0.039	0.170	0.050	0.130	0.180

PROJECT TRIP GENERATION

Project Land Use		Quantity	Unit	Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Warehousing		284.917	KSF	487	37	11	48	14	37	51
Passenger Vehicles	73.00%			356	27	8	35	10	27	37
Trucks	27.00%			131	10	3	13	4	10	14

PROJECT TRIPS - PASSENGER CAR EQUIVALENTS (PCE)

Vehicle Type	Vehicle Mix [1, 2]	Daily Vehicles	PCE Factor	Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Passenger Vehicles	73.00%	356	1.0	356	27	8	35	10	27	37
2-Axle Trucks	4.57%	22	1.5	33	3	1	4	1	3	4
3-Axle Trucks	6.13%	30	2.0	60	5	1	6	2	5	7
4+ Axle Trucks	16.30%	79	3.0	237	18	5	23	7	18	25
Total Truck PCE Trips				330	26	7	33	10	26	36
Total Project PCE Trips				**686**	**53**	**15**	**68**	**20**	**53**	**73**

Source: Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition

PCE = Passenger Car Equivalent

KSF = Thousand Square Feet

[1] Passenger Vehicle and Truck splits were taken from the Institute of Transportation Engineers (ITE) Trip Generation Manual, 10th Edition Supplement

[2] Truck mix percentages were calculated based on a ratio between the ITE truck splits and the Truck Trip Generation Study - City of Fontana, August 2003 (Heavy Warehouse; >100 KSF)

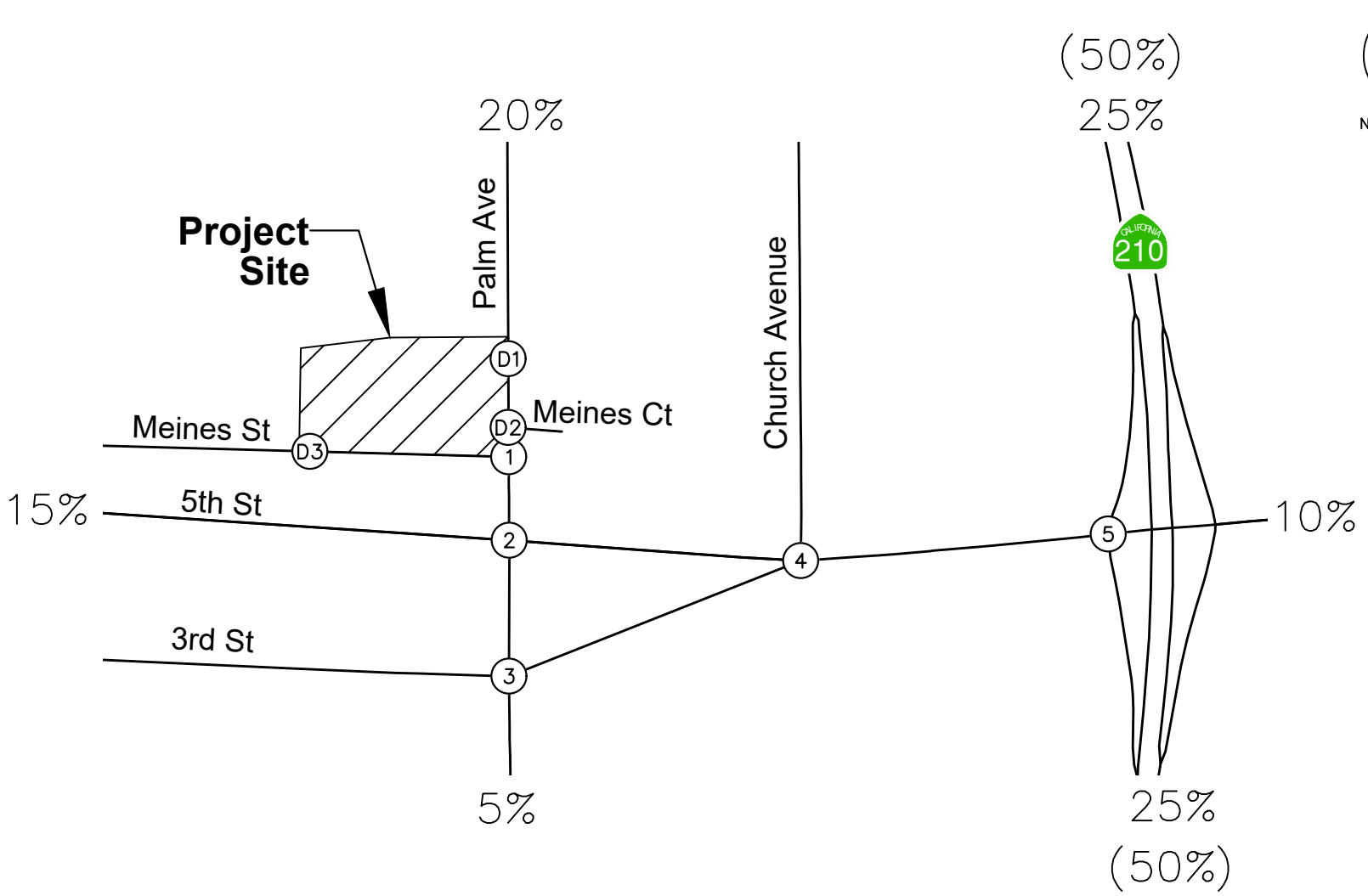


FIGURE 9
PROJECT TRIP DISTRIBUTION

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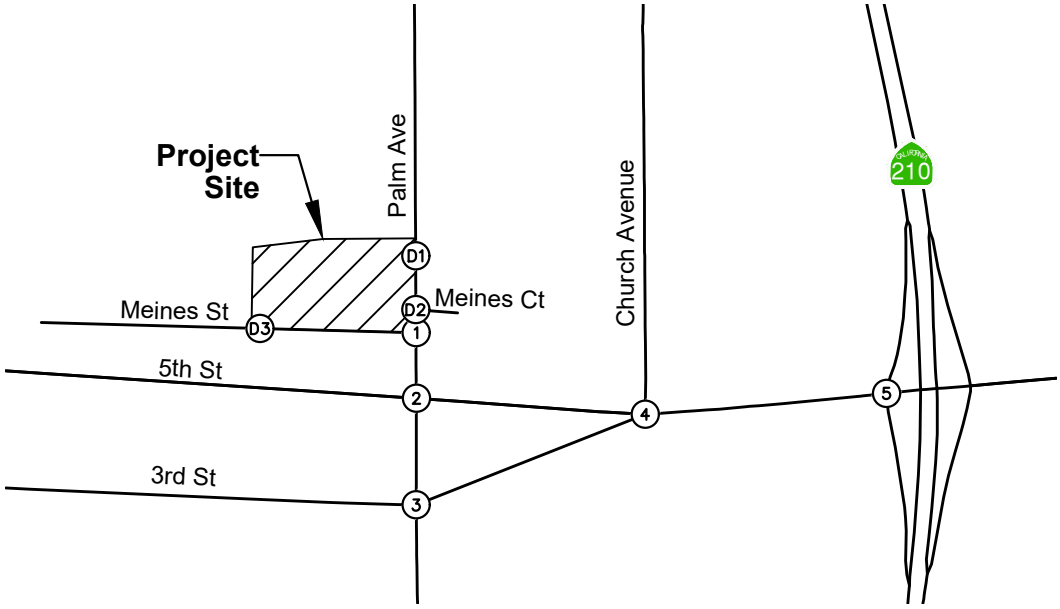


1. Palm Avenue at Meines Street	2. Palm Avenue at 5th Street	3. Palm Avenue at 3rd Street	4. Church Avenue at 5th Street	5. SR-210 EB Ramps at 5th Street
9/30 ← 4/18 → 18/8 ↑ 30/12 ↑	1/4 ← 3/14 ← 9/30 ← 43/17 ↖ 4/2 → 1/1 ↑	0/1 ← 3/13 ← 1/1 ↑	←43/17 9/30 → 3/13 ↗	20/8 ↙ ←23/9 7/23 → 5/20 ↘

D1. Palm Avenue at North Project Driveway	D2. Palm Avenue at Meines Court/ South Project Driveway	D3. Meines Street at Project Driveway
5/2 ← 2/5 → 6/20 ↘ 20/8 ↑	6/20 ← 3/10 ↘ 10/4 ↑ 20/8 ↑	4/18 ↙ 18/8 ↖

Note: Volumes reflect PCE adjustments.

LEGEND:

(X) = Study Intersection

XX/YY = AM/PM Peak Hour Turning Movement Volumes

FIGURE 10
PROJECT-RELATED TRAFFIC VOLUMES

FUTURE CONDITIONS PLUS PROJECT

Opening Year 2024 Cumulative Plus Project

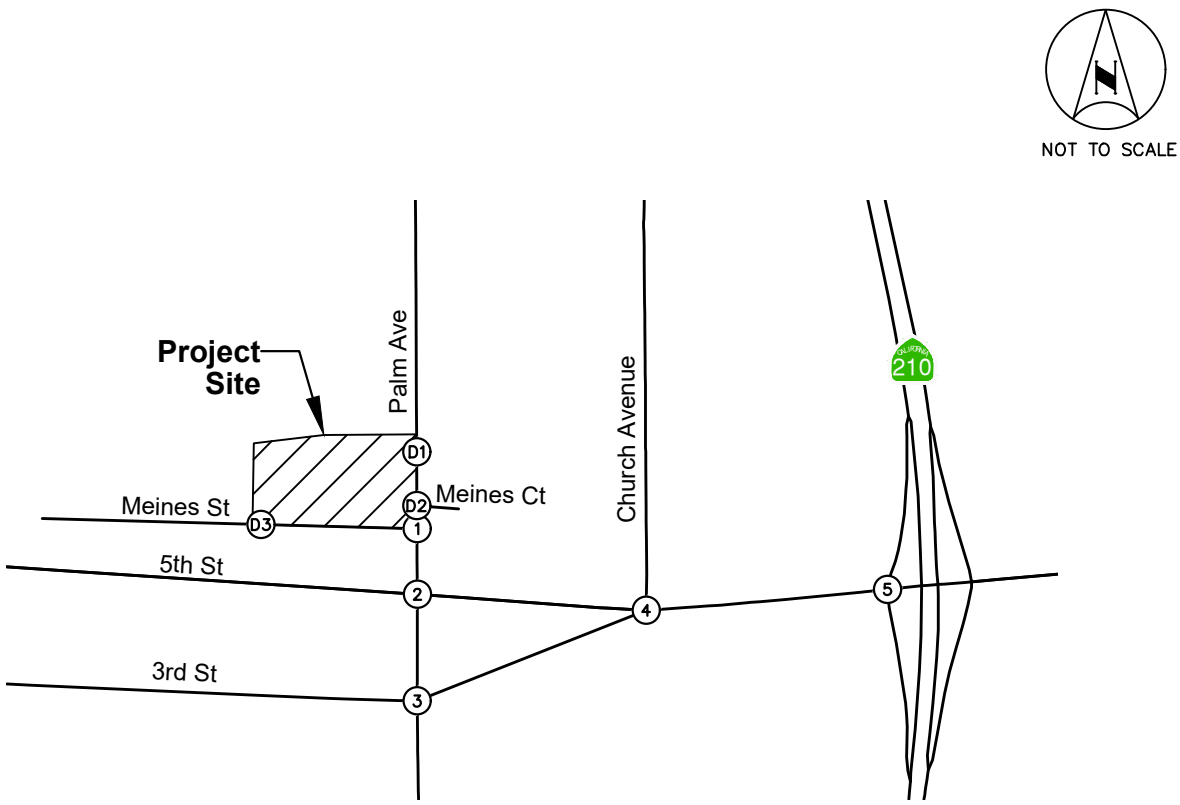
Project-related traffic was added to the Opening Year 2024 Cumulative traffic volumes. Opening Year 2024 Cumulative Plus Project traffic volumes at study intersections are shown on **Figure 11**.

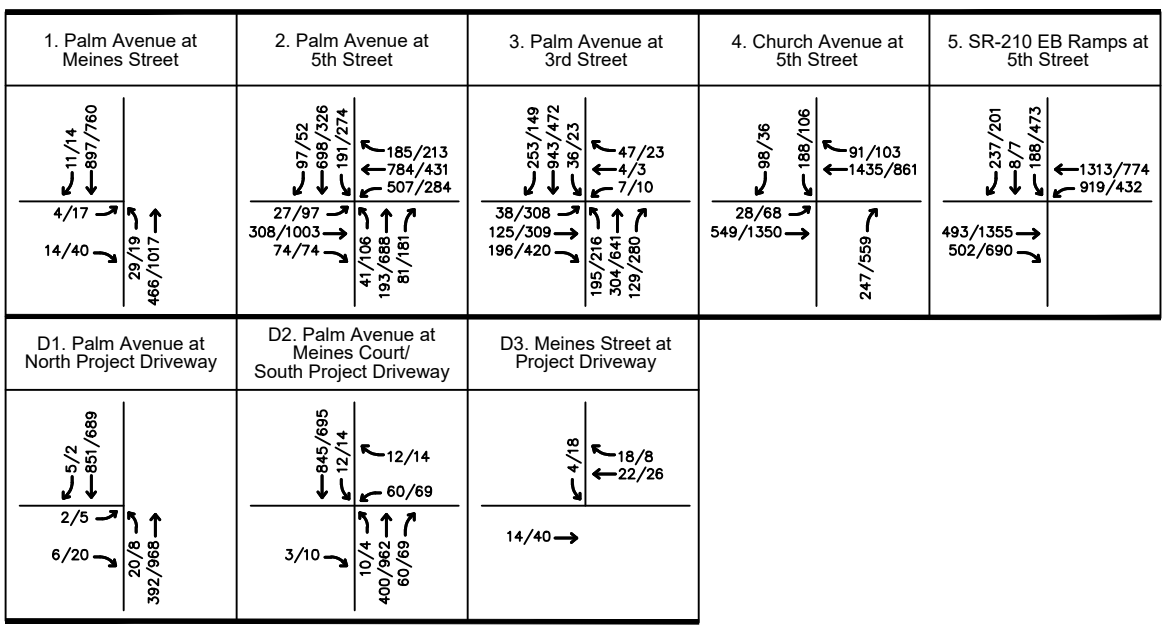
Peak Hour Operating Conditions

Intersection LOS analysis was conducted for the morning and evening peak hours for the Opening Year 2024 Cumulative Plus Project condition. The results are shown on **Table 5**. Intersection analysis worksheets for this scenario are provided in ***Appendix E***.

Review of this table indicates the following study intersections would continue to operate at an unacceptable LOS:

- #2 – Palm Avenue at 5th Street: PM – LOS F
- #5 – SR-210 EB Ramps at 5th Street: PM – LOS E





Note: Volumes reflect PCE adjustments.

LEGEND:

(X) = Study Intersection

XX/YY = AM/PM Peak Hour Turning Movement Volumes

FIGURE 11
OPENING YEAR 2024 CUMULATIVE PLUS PROJECT TRAFFIC VOLUMES

Kimley»Horn

TABLE 5
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2024 CUMULATIVE PLUS PROJECT

Int. #	Intersection	Traffic Control	AM Peak Hour						PM Peak Hour					
			Without Project		With Project		Change in Delay	Project-Related Effect?	Without Project		With Project		Change in Delay	Project-Related Effect?
			Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Palm Avenue at Meines Street	U	20.7	C	21.7	C	1.0	No	19.1	C	20.1	C	1.0	No
2	Palm Avenue at 5th Street	S	45.7	D	47.2	D	1.5	No	110.5	**F**	110.4	**F**	-0.1	No
3	Palm Avenue at 3rd Street	S	30.0	C	30.1	C	0.1	No	36.9	D	37.3	D	0.4	No
4	Church Avenue at 5th Street	S	19.9	B	20.1	C	0.2	No	24.6	C	25.3	C	0.7	No
5	SR-210 EB Ramps at 5th Street	S	40.4	D	45.1	D	4.7	No	63.5	**E**	68.1	**E**	4.6	No
D1	Palm Avenue at North Project Driveway	U	-	-	16.1	C	-	-	-	-	15.4	C	-	-
D2	Palm Avenue at Meines Court/South Project Driveway	U	-	-	15.7	C	-	-	-	-	30.1	D	-	-
D3	Meines Street at Project Driveway	U	-	-	8.8	A	-	-	-	-	8.9	A	-	-

Notes:
- **Bold** and grey values indicate intersections operating at an unacceptable Level of Service
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.
  S = Signalized
  U = Unsignalized

RECOMMENDED IMPROVEMENTS

Based on the City of Highland LOS standards and criteria noted earlier in the report, the following intersections would operate at an unacceptable LOS:

- #2 – Palm Avenue at 5th Street (cumulative effect)
- #5 – SR-210 EB Ramps at 5th Street (cumulative effect)

Implementation of the following improvements are recommended to address deficiencies at the study intersections:

<u>#2 – Palm Avenue at 5th Street</u>

- Add 2nd Northbound Left-Turn Lane
- Add 2nd Southbound Left-Turn Lane
- Add 2nd Eastbound Left-Turn Lane
- Add 2nd Westbound Left-Turn Lane
- Add Dedicated Westbound Right-Turn Lane
- Add Westbound Right-Turn Overlap Phasing

The recommended improvements noted above for intersection #2 are consistent with a sub-set of the 3rd Street/5th Street Corridors Improvement Project (Project No. STR18001).

<u>#5 – SR-210 EB Ramps at 5th Street</u>

- Add 2nd Southbound Left-Turn Lane

The recommended improvement noted above for intersection #5 would bring the LOS to an acceptable level. However, Caltrans has jurisdiction over this ramp location. Since the City or the Project does not have control over the ramp location, the operational enhancement may not be feasible, in which case the operations at the intersection would remain as forecasted. It should be noted that this ramp location operates at LOS F under Opening Year 2024 Cumulative conditions without the project.

A summary of the intersection operation before and after implementation of the recommended improvements is provided on **Table 6**. Copies of intersection analysis worksheets with improvements are provided in ***Appendix G***. Recommended improvements may include a combination of fee payments to established programs, construction of specific improvements, payment of a fair-share contribution toward future improvements, or a combination of these approaches. The project fair share proportion for non-programmed improvements at deficient study intersections under Opening Year 2024 Cumulative conditions is shown on **Table 7**. For programmed improvements, the developer will pay into the regional transportation fee program.

TABLE 6
SUMMARY OF INTERSECTION OPERATION WITH RECOMMENDED IMPROVEMENTS
OPENING YEAR 2024 CUMULATIVE PLUS PROJECT

Int. #	Intersection	Improvements	Traffic Control	AM Peak Hour						PM Peak Hour					
				Without Project		With Project		With Improvements		Without Project		With Project		With Improvements	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
2	Palm Avenue at 5th Street [1]	- Add 2nd Northbound Left-Turn Lane - Add 2nd Southbound Left-Turn Lane - Add 2nd Eastbound Left-Turn Lane - Add 2nd Westbound Left-Turn Lane - Add Dedicated Westbound Right-Turn Lane - Add Westbound Right-Turn Overlap Phasing	S	45.7	D	47.2	D	37.9	D	110.5	**F**	110.4	**F**	48.4	D
5	SR-210 EB Ramps at 5th Street	- Add 2nd Southbound Left-Turn Lane	S	40.4	D	45.1	D	33.5	C	63.5	**E**	68.1	**E**	31.4	C

Notes:
- **Bold** and grey values indicate intersections operating at an unacceptable Level of Service
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

[1] The recommended improvements noted above for intersection #2 are consistent with a sub-set of the 3rd Street/5th Street Corridors Improvement Project (Project No. STR18001).

S = Signalized
U = Unsignalized

TABLE 7

SUMMARY OF PROJECT FAIR SHARE - OPENING YEAR 2024 CUMULATIVE

Int. #	Intersection [1]	AM Peak Hour					PM Peak Hour				
		Total Volume		Total	Project		Total Volume		Total	Project	
		2023	2024	Growth	Trips	%-age	2023	2024	Growth	Trips	%-age
2	Palm Avenue at 5th Street	2,838	3,430	592	61	10.3%	3,472	4,275	803	68	8.5%
5	SR-210 EB Ramps at 5th Street	3,019	3,660	641	55	8.6%	2,986	3,932	946	60	6.3%

Notes:

- [1] Fair Share percentage is to be applied to non-programmed improvements

SITE ACCESS

Vehicular access for the project site would be provided via two driveways on Palm Avenue and one driveway on Meines Street. Trucks would enter and exit the site via the north driveway on Palm Avenue and the driveway on Meines Street. Trucks would be restricted from making left-turns out of the site onto Palm Avenue. Passenger vehicles would have full access at all three project driveways to enter and exit the site. Truck turning diagrams are provided in *Appendix H*.

STORAGE CAPACITY AT LEFT-TURN POCKETS

Queue lengths at the left-turn pockets were assessed at the following locations:

- Palm Avenue at North Project Driveway
    - Northbound Left Turn
- Palm Avenue at Meines Street
    - Northbound Left Turn
- Palm Avenue at 5th Street
    - Southbound Left Turn
- Palm Avenue at 3rd Street
    - Southbound Left Turn

A summary of the left-turn pocket storage capacity, as well as 50th and 95th percentile queue lengths at the locations noted above are summarized on Table 8. The table shows that all left-turn pockets would have adequate storage capacity for 95th percentile queues under Existing, Opening Year 2024 Cumulative, and Opening Year 2024 Cumulative Plus Project conditions, except for the following:

- Palm Avenue at 5th Street
    - Southbound Left Turn

The 95th percentile queue for the southbound left-turn pocket at the intersection of Palm Avenue at 5th Street is currently over capacity under Existing conditions. There is an existing two-way left-turn lane just north of the left-turn pocket that would be able to accommodate the queue outside of the left-turn pocket under all analysis scenarios.

Based on the queuing analysis, it is recommended that "KEEP CLEAR" markings be added at the intersections of Palm Avenue at Meines Street and Palm Avenue at Meines Court/South Project Driveway.

The left-turn pocket capacities are provided in the intersection analysis worksheets in *Appendix E* of this report.

TABLE 8
SUMMARY OF LEFT-TURN POCKET STORAGE CAPACITY
MEINES STREET AND PALM AVENUE WAREHOUSE PROJECT

Intersection	Movement	Storage Capacity (ft/ln)	Peak Hour	Queue Length (ft/ln)							
				Existing		Opening Year 2024 Cumulative		Opening Year 2024 Cumulative Plus Project		Opening Year 2024 Cumulative Plus Project Plus Recommended Improvements	
				50th Percentile	95th Percentile	50th Percentile	95th Percentile	50th Percentile	95th Percentile	50th Percentile	95th Percentile
Palm Avenue at North Project Driveway	NBL	20	AM	-	-	-	-	N/A[1]	2	N/A[1]	2
			PM	-	-	-	-	N/A[1]	1	N/A[1]	1
Palm Avenue at Meines Street	NBL	150	AM	N/A[1]	1	N/A[1]	1	N/A[1]	1	N/A[1]	1
			PM	N/A[1]	1	N/A[1]	1	N/A[1]	1	N/A[1]	1
Palm Avenue at 5th Street	SBL	80	AM	131	**224**	206	**333**	232	**373**	77	**139**
			PM	174	**283**	222	**345**	257	**388**	119	**209**
Palm Avenue at 3rd Street	SBL	60	AM	38	68[2]	33	59	37	66[2]	37	66[2]
			PM	12	22	11	19	23	41	23	41

Notes:
[1] 50th percentile queue not reported for unsignalized intersections
[2] The 95th percentile queue can be accomodated in the 60 foot transition area

VEHICLE MILES TRAVELED (VMT) ANALYSIS

Senate Bill 743 (SB 743) was approved by California legislature in September 2013. SB 743 requires changes to California Environmental Quality Act (CEQA), specifically directing the Governor's Office of Planning and Research (OPR) to develop alternative metrics to the use of vehicular "Level of Service" (LOS) for evaluating transportation projects. OPR has prepared a technical advisory ("OPR Technical Advisory") for evaluating transportation impacts in CEQA and has recommended that Vehicle Miles Traveled (VMT) replace LOS as the primary measure of transportation impacts. The Natural Resources Agency has adopted updates to CEQA Guidelines to incorporate SB 743 that requires VMT for the purposes of determining a significant transportation impact under CEQA.

Currently, the City of Highland has not adopted VMT guidelines. The County of San Bernardino's *Transportation Impact Study Guidelines* (July 2019) were used as they provide details on appropriate screening thresholds that can be used to identify when a proposed land use project is anticipated to result in a less-than-significant impact without conducting a more detailed level analysis. Screening thresholds are broken down into the following criteria:

1. Project Type Screening
2. Transit Priority Area (TPA) Screening
3. Low VMT Area Screening

Land development projects that meet one or more of the above screening thresholds may be presumed to create a less-than-significant impact on transportation and circulation. The screening thresholds were reviewed and evaluated for this project.

Project Type Screening

Projects which serve the local community and have the potential to reduce VMT should not be required to complete a VMT assessment. These projects are noted below:

- K-12 School
- Local-serving retail less than 50,000 SF
- Local Parks
- Day Care Centers
- Local Serving Gas Station
- Local Serving Banks
- Student Housing Projects
- Local Serving Community Colleges
- Projects generating less than 110 daily vehicle trips

Based on the project description and estimated trip generation, the project would not meet the Project Type Screening Criteria.

The Project Type Screening criteria is not met.

Transit Priority Area (TPA) Screening

Projects located within a TPA may be presumed to have a less-than-significant impact. A TPA is defined as a half-mile area around an existing major transit stop of an existing stop along a high-quality transit corridor. 'Major transit stop' means a site containing an existing rail station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and evening peak commute periods. A 'high-quality transit corridor' means a corridor with a fixed route bus service with service intervals no longer than 15 minutes during the peak commute hours.

Based on the SBCTA VMT Screening Tool, the project is not located within a TPA.

The TPA Screening criteria is not met.

Low VMT Area Screening

Projects located within a low VMT generating area (PA VMT per employee, 4% below County baseline) may be presumed to have a less-than-significant impact. Based on the SBCTA VMT Screening Tool, the project is located in a Low VMT Area. The results of the SBCTA VMT Screening Tool are provided in the Approved Scoping Agreement in ***Appendix A***.

The Low VMT Area Screening criteria is met.

Based on review of the VMT screening criteria, the project meets the Low VMT Area Screening threshold. Therefore, the project would result in a less-than-significant VMT impact, and no additional VMT analysis is required.

SUMMARY OF FINDINGS AND CONCLUSIONS

- The project site is located on the northwest corner of the intersection of Meines Street and Palm Avenue in the City of Highland.

- The project involves the construction of a warehouse building totaling approximately 284,917 SF.

- Vehicular access for the project site would be provided via two driveways on Palm Avenue and one driveway on Meines Street. Trucks would enter and exit the site via the north driveway on Palm Avenue and the driveway on Meines Street. Trucks would be restricted from making left-turns out of the site onto Palm Avenue. Passenger vehicles would have full access at all three project driveways to enter and exit the site.

- Under Existing Conditions, the following study intersection currently operates at an unacceptable Level of Service:

    - #2 – Palm Avenue at 5th Street: PM – LOS F

- Under Opening Year 2024 Cumulative conditions, the following study intersections would operate at an unacceptable Level of Service:

    - #2 – Palm Avenue at 5th Street: PM – LOS F
    - #5 – SR-210 EB Ramps at 5th Street: PM – LOS E

- The project is estimated to generate 686 daily PCE trips, with 68 PCE trips during the AM peak hour and 73 PCE trips during the PM peak hour.

- Under Opening Year 2024 Cumulative Plus Project conditions, the following study intersections would continue to operate at an unacceptable Level of Service:

    - #2 – Palm Avenue at 5th Street: PM – LOS F
    - #5 – SR-210 EB Ramps at 5th Street: PM – LOS E

- Recommended improvements were provided to address the deficiencies at the study intersections.

- Recommended improvements may include a combination of fee payments to established programs, construction of specific improvements, payment of a fair-share contribution toward future improvements, or a combination of these approaches.

- Based on review of the VMT screening thresholds, the project meets the Low VMT Area Screening threshold. Therefore, the project would result in a less-than-significant VMT impact, and no additional VMT analysis is required.

APPENDIX A

APPROVED SCOPING AGREEMENT

Kimley»Horn

APPROVED
FEB 21 2023
CITY OF HIGHLAND
ENGINEERING DEPT.

February 15, 2023

Carlos Zamano
Director of Public Works/City Engineer
City of Highland
27215 Base Line
Highland, CA 92346

RE: ***Traffic Scoping Agreement for the Proposed Meines Street and Palm Avenue Warehouse Project (DRA 22-022, TPM 22-0120) in the City of Highland***

Dear Mr. Zamano:

Kimley-Horn and Associates, Inc. is submitting this Traffic Scoping Agreement to the City of Highland to prepare a traffic study for the proposed Meines Street and Palm Avenue Warehouse Project in the City of Highland. The proposed traffic study scope for the project is presented below.

PROJECT DESCRIPTION

The project site is located on the northwest corner of the intersection of Meines Street and Palm Avenue in the City of Highland. The Assessor Parcel Numbers (APNs) of the properties are 1192-621-02 thru -10, -20 thru -23, and 1192-601-05, -09, -43. The project site is currently occupied by a mix of industrial uses and one single-family home. The project will involve the demolition of the existing uses and the construction of a warehouse building totaling 284,917 square feet. A copy of the project site plan is provided on **Attachment 1**.

Vehicular access provisions for the project site would be provided via two driveways on Palm Avenue and one driveway on Meines Street. Trucks would enter and exit the site via the north driveway on Palm Avenue and the driveway on Meines Street. Trucks would be restricted from making left-turns onto Palm Avenue. Passenger vehicles would have full access at all three project driveways to enter and exit the site.

SCOPE OF TRAFFIC STUDY

This traffic scope is based on the City of Highland's *Public Works Policies, Procedures and Standards* (September 2016).

Study Scenarios

- Existing Conditions
- Opening Year 2024 Cumulative
- Opening Year 2024 Cumulative Plus Project

Trip Generation

Trip generation estimates for the proposed use are based on the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition) trip rates for Warehousing (ITE Land Use 150).

Passenger car equivalent (PCE) factors, from the San Bernardino Association of Governments (SANBAG) Congestion Management Program (CMP) requirements (June 2016), were then applied to the truck types, based on the number of axles (1.5 PCE for 2-axle trucks, 2.0 PCE for 3-axle trucks, and 3.0 for 4+ axle trucks) to determine the total PCE volumes generated by the proposed industrial use. The trip generation rates, PCE factors, and the resulting trip generation estimates for the existing land use and project are summarized on **Attachment 2.** The proposed project is estimated to generate 686 PCE trips on a daily basis, with 68 PCE trips in the morning peak hour and 73 PCE trips in the evening peak hour.

Trip Distribution

Project distribution assumptions were developed based on existing travel patterns, and the likely origins and destinations of employees and trucks. Trip distribution assumptions are shown on **Attachment 3**.

Suggested Study Area

The Level of Service (LOS) analysis will be conducted at the following study intersections:

1. Palm Avenue at Meines Street
2. Palm Avenue at 5th Street
3. Palm Avenue at 3rd Street
4. Church Avenue at 5th Street
5. SR-210 EB Ramps at 5th Street

D1. Palm Avenue at North Project Driveway
D2. Palm Avenue at Meines Court/South Project Driveway
D3. Meines Street at Project Driveway

All study intersections will be analyzed using the Highway Capacity Manual (HCM), 7th Edition methodology. The intersection analysis for the traffic study will be accomplished using the Vistro software program. Intersections operating at an unacceptable LOS will be identified based on the City's LOS standard of LOS D or better.

Based on discussions with City staff and due to current construction within the study area, historical traffic counts (dated 2018) will be used at the study intersections. A 3.0% annual ambient growth rate will be applied to the historical traffic counts up to existing year 2023.

For Opening Year conditions, a 2.0% annual ambient growth rate will be applied to the existing adjusted volumes up to Opening Year 2024. Historical counts are not provided for intersection #1 (Palm Avenue at Meines Street). As such, existing counts will be conducted at intersection #1 (Palm Avenue at Meines Street) and intersection #2 (Palm Avenue at 5th Street). Based on review of historical and existing counts at intersection #2, a construction adjustment factor will be applied to the existing volumes at intersection #1.

Cumulative Project volumes will be developed based on approved projects in the City of Highland. City staff will provide a list of Cumulative Projects to assume for the traffic analysis.

Specific Issues

Based on consultation with City staff, the traffic study will address the following specific issues:

- Truck Turning Diagrams
  - Palm Avenue at North Project Driveway
  - Meines Street at Project Driveway

- Queuing Analysis (Opening Year 2024 Cumulative Plus Project)
  - Northbound Left-Turn at the intersection of Palm Avenue at North Project Driveway
  - Northbound Left-Turn at the intersection of Palm Avenue at Meines Street
  - Southbound Left-Turn at the intersection of Palm Avenue at 5th Street
  - Southbound Left-Turn at the intersection of Palm Avenue at 3rd Street

VEHICLE MILES TRAVELED (VMT) ANALYSIS

Currently, the City of Highland has not adopted VMT guidelines. The County of San Bernardino's *Transportation Impact Study Guidelines* (July 2019) were used to determine if VMT analysis is needed for the proposed project.

The County of San Bernardino's *Transportation Impact Study Guidelines* (July 2019) provide details on appropriate screening thresholds that can be used to identify when a proposed land use project is anticipated to result in a less-than-significant impact without conducting a more detailed level analysis. Screening thresholds are broken into the following three steps:

1. Project Type Screening
2. Transit Priority Area (TPA) Screening
3. Low VMT Area Screening

Project Type Screening

Projects which serve the local community and have the potential to reduce VMT should not be required to complete a VMT assessment. These projects are noted below:

- K-12 School
- Local-serving retail less than 50,000 SF
- Local Parks
- Day Care Centers
- Local Serving Gas Station
- Local Serving Banks
- Student Housing Projects
- Local Serving Community Colleges
- Projects generating less than 110 daily vehicle trips

Based on the project description and estimated trip generation, the project would not meet the Project Type Screening Criteria.

The Project Type Screening criteria is not met.

Transit Priority Area (TPA) Screening

Projects located within a TPA may be presumed to have a less-than-significant impact. A TPA is defined as a half-mile area around an existing major transit stop of an existing stop along a high-quality transit corridor. 'Major transit stop' means a site containing an existing rail station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and evening peak commute periods. A 'high-quality transit corridor' means a corridor with a fixed route bus service with service intervals no longer than 15 minutes during the peak commute hours.

Based on the SBCTA VMT Screening Tool (see **Attachment 4**), the project is not located within a TPA.

The TPA Screening criteria is not met.

Low VMT Area Screening

Projects located within a low VMT generating area (PA VMT per worker, 4% below County baseline) may be presumed to have a less-than-significant impact. Based on the SBCTA VMT Screening Tool, the project is located in a Low VMT Area. The results of the SBCTA VMT Screening Tool are provided in Attachment 4 (previously mentioned).

The Low VMT Area Screening criteria is met.

Based on review of the VMT screening criteria, the project meets the Low VMT Area Screening threshold. Therefore, the project would result in a less-than-significant transportation impact, and no additional VMT analysis is required.

Please contact me if you have any questions or comments.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

Trevor Briggs, P.E.
Project Engineer
Trevor.Briggs@Kimley-Horn.com

LOVETT INDUSTRIAL

Tyler Banton
Project Developer
Tyler.Banton@LovettIndustrial.com

APPROVED:

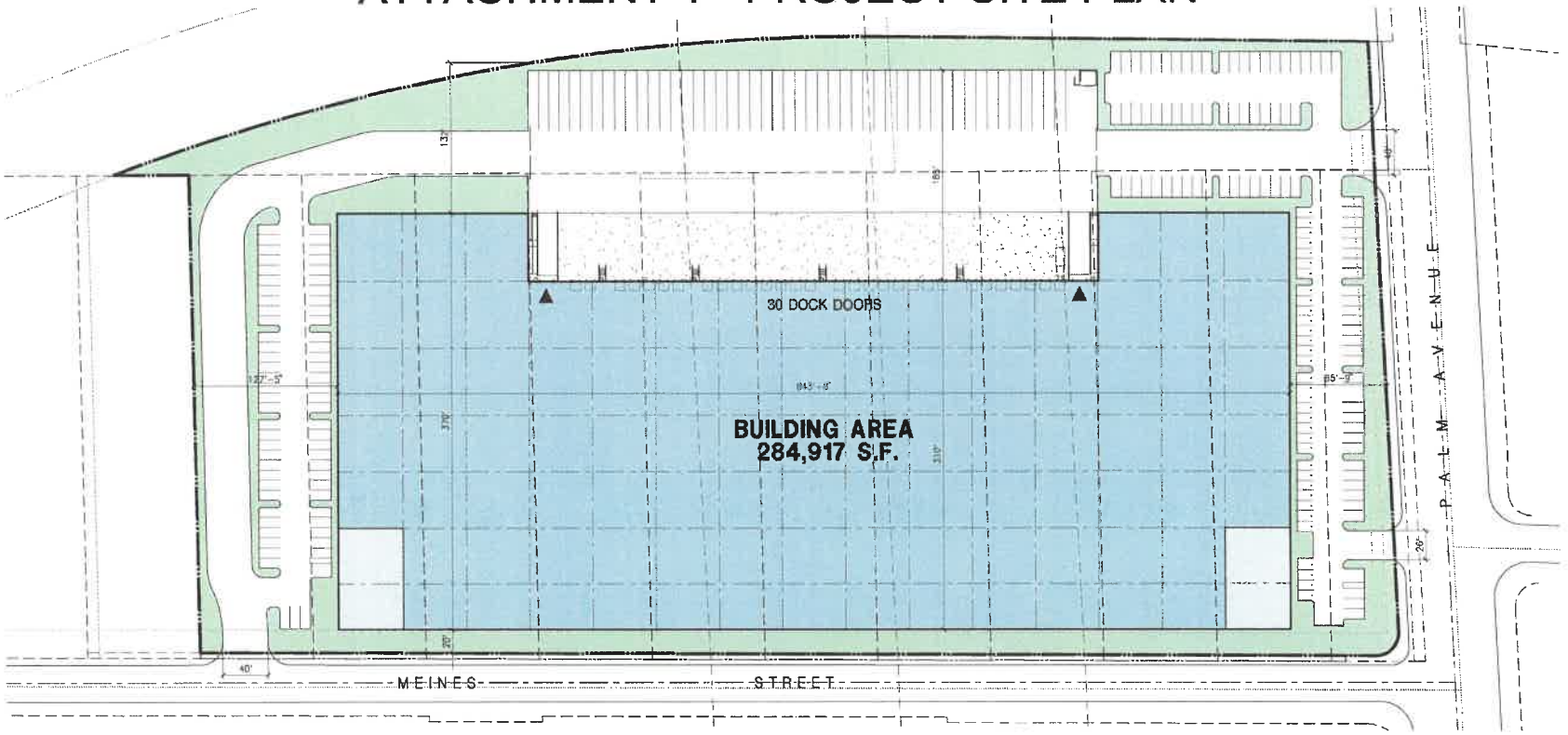
By:

_____.

Carlos Zamano
Public Works Director/City Engineer, City of Highland

CAUTION: IF THIS SHEET IS NOT 30"X42", IT IS A REDUCED PRINT

ATTACHMENT 1 - PROJECT SITE PLAN



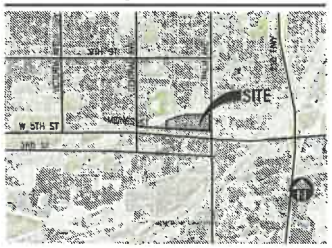
Tabulation

SITE AREA		
In s.f.	555,855	sf
In acres	12.8	ac
BUILDING AREA		
Office	8,000	sf
Mezzanine	3,000	sf
Warehouse	276,917	sf
TOTAL	284,917	sf
SITE COVERAGE		
Maximum Allowed	60%	
Actual	51.3%	
AUTO PARKING REQUIRED		
Office: 1/250 s.f.	32	stalls
Whse: 1/1,100 s.f.	277	stalls
TOTAL	309	stalls
AUTO PARKING PROVIDED		
Standard (9' x 19')	159	stalls
Compact (9' x 14')	34	stalls
Total Auto	193	stalls

TRAILER PARKING PROVIDED		
Trailer (10' x 53')	47	stalls
ZONING ORDINANCE		
Zoning - Industrial (I)		
MAXIMUM BUILDING HEIGHT ALLOWED		
Height - 50'		
LANDSCAPE REQUIREMENT		
Percentage - 10% of total parking area		
LANDSCAPE PROVIDED		
In s.f.	82,007	sf
Percentage	30.2%	
SETBACKS		
Buildings	Landscape	
Front - 20'	Min. - 10'	
Side - 0', Street side - 20'		
Rear - 0'		

Note: This is a conceptual plan. It is based on preliminary information which is not fully verified and may be incomplete. It is meant as a comparative aid in examining alternate development strategies and any quantities indicated are subject to revision as more reliable information becomes available.

Aerial Map



Legend

- POTENTIAL OFFICE
- WAREHOUSE
- ▼ DRIVE THRU DOOR

north

1" = 40'
0 40 80 120

Conceptual Site Plan

Meines Street & Palm Avenue

Highland, CA

LOVETT INDUSTRIAL

HPA architecture
18831 Bardeen Ave. - Ste. #100
Irvine, CA 92612
(949) 863-1770
www.hparchs.com

July 19, 2022 / Job #22240
Scheme 16

ATTACHMENT 2
SUMMARY OF PROJECT TRIP GENERATION
MEINES STREET AND PALM AVENUE WAREHOUSE PROJECT

TRIP GENERATION RATES

ITE Land Use	ITE Code	Unit	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Warehousing	150	KSF	1.710	0.131	0.039	0.170	0.050	0.130	0.180

PROJECT TRIP GENERATION

Project Land Use		Quantity	Unit	Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Warehousing		284.917	KSF	487	37	11	48	14	37	51
Passenger Vehicles	73.00%			356	27	8	35	10	27	37
Trucks	27.00%			131	10	3	13	4	10	14

PROJECT TRIPS - PASSENGER CAR EQUIVALENTS (PCE)

Vehicle Type	Vehicle Mix [1, 2]	Daily Vehicles	PCE Factor	Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Passenger Vehicles	73.00%	356	1.0	356	27	8	35	10	27	37
2-Axle Trucks	4.57%	22	1.5	33	3	1	4	1	3	4
3-Axle Trucks	6.13%	30	2.0	60	5	1	6	2	5	7
4+ Axle Trucks	16.30%	79	3.0	237	18	5	23	7	18	25
Total Truck PCE Trips				330	26	7	33	10	26	36
Total Project PCE Trips				**686**	**53**	**15**	**68**	**20**	**53**	**73**

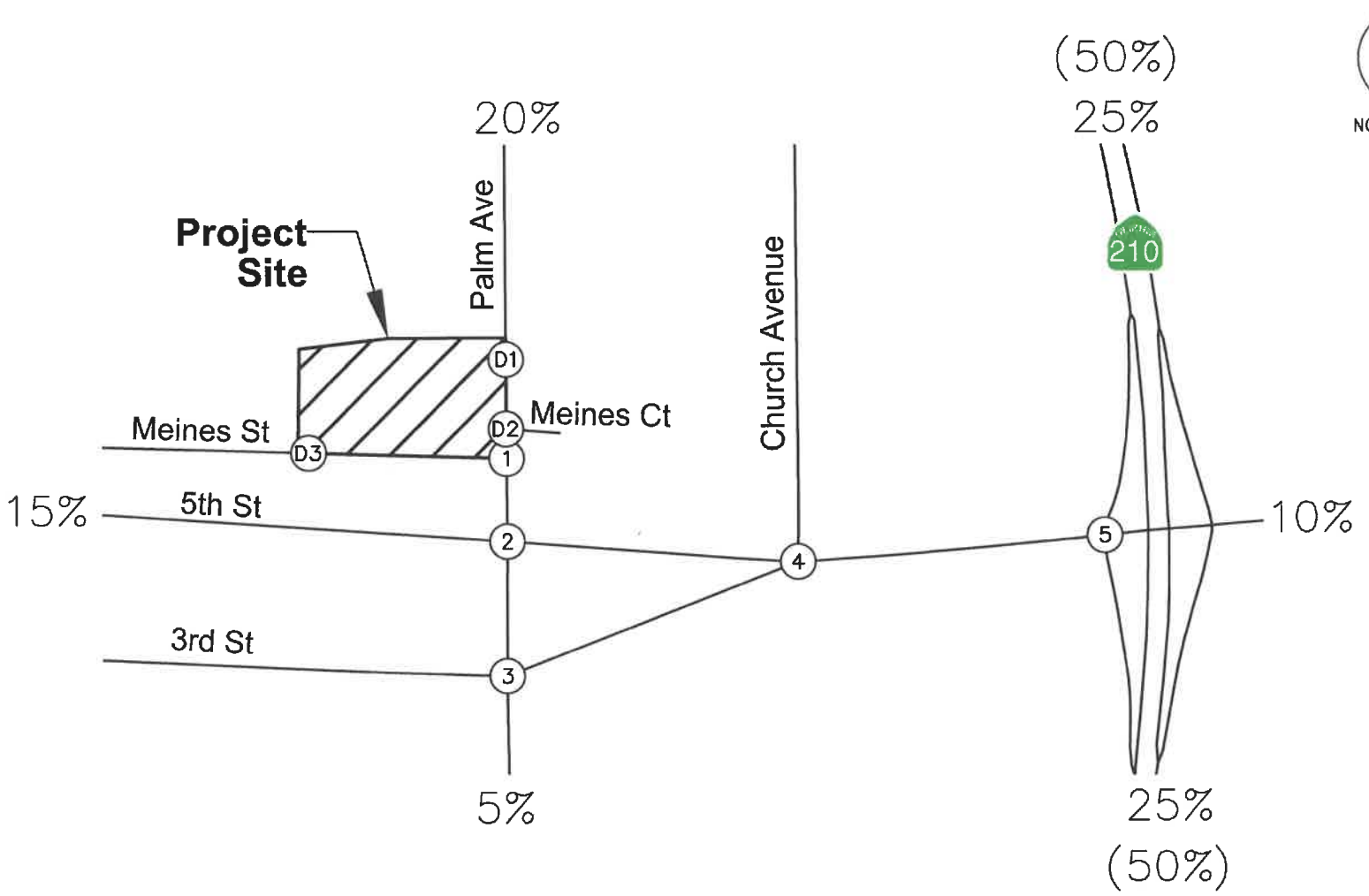
Source: Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition

PCE = Passenger Car Equivalent

KSF = Thousand Square Feet

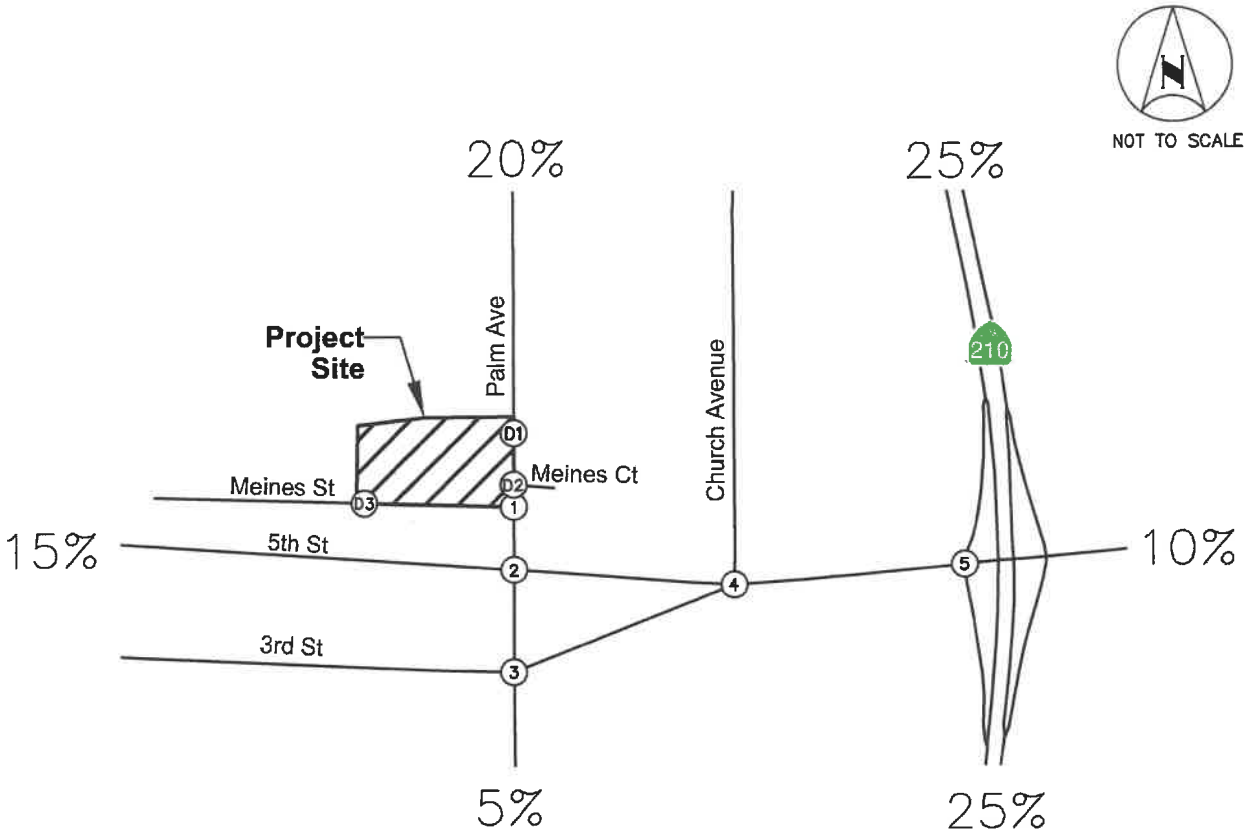
[1] Passenger Vehicle and Truck splits were taken from the Institute of Transportation Engineers (ITE) Trip Generation Manual, 10th Edition Supplement

[2] Truck mix percentages were calculated based on a ratio between the ITE truck splits and the Truck Trip Generation Study - City of Fontana, August 2003 (Heavy Warehouse; >100 KSF)



ATTACHMENT 3 (A)
STUDY AREA - PROJECT TRIP DISTRIBUTION

Kimley»Horn



1. Palm Avenue at Meines Street	2. Palm Avenue at 5th Street	3. Palm Avenue at 3rd Street	4. Church Avenue at 5th Street	5. SR-210 EB Ramps at 5th Street
(60%) ↓ (20%) → 20% ↑ 60% ↑	(15%) ↓ (5%) ↓ (60%) ↓ 60% ← 15% → 5% ↑	(5%) ↓ 5% ↑	60% ← (60%) →	25% ↓ 35% ← (35%) → (25%) ↓

D1. Palm Avenue at North Project Driveway	D2. Palm Avenue at Meines Court/ South Project Driveway	D3. Meines Street at Project Driveway
20% ↓ (20%) → (25%) ↓ 25% ↑	(25%) ↓ (35%) → 35% ↑ 25% ↑	(20%) ↓ 20% ←

LEGEND:

(X) = Study Intersection

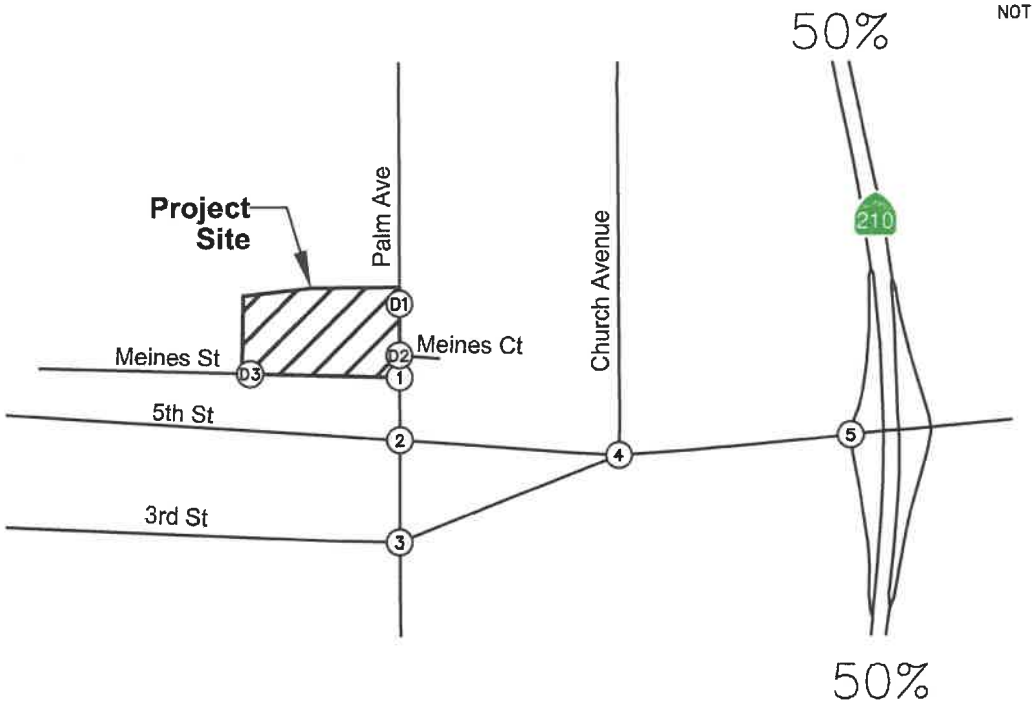
XX% = Passenger Car Distribution

YY%(ZZ%) = Passenger Car Percentage Inbound (Outbound)

ATTACHMENT 3 (B)
STUDY AREA - PASSENGER CAR TRIP DISTRIBUTION

Kimley»Horn

NOT TO SCALE



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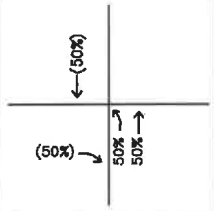
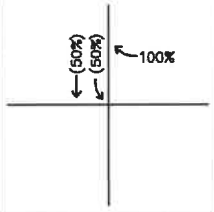
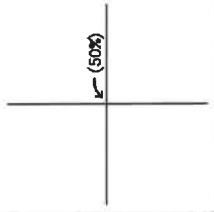
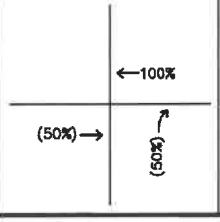
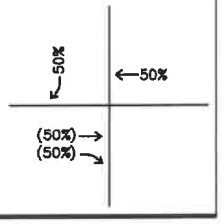
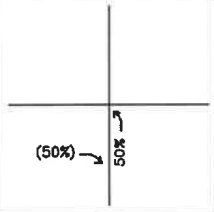
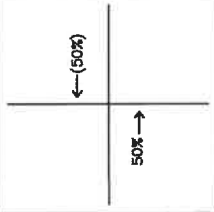
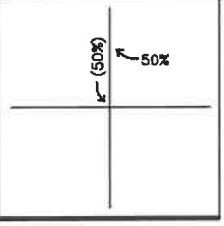
				

D1. Palm Avenue at North Project Driveway	D2. Palm Avenue at Meines Court/ South Project Driveway	D3. Meines Street at Project Driveway
		

LEGEND:

(X) = Study Intersection

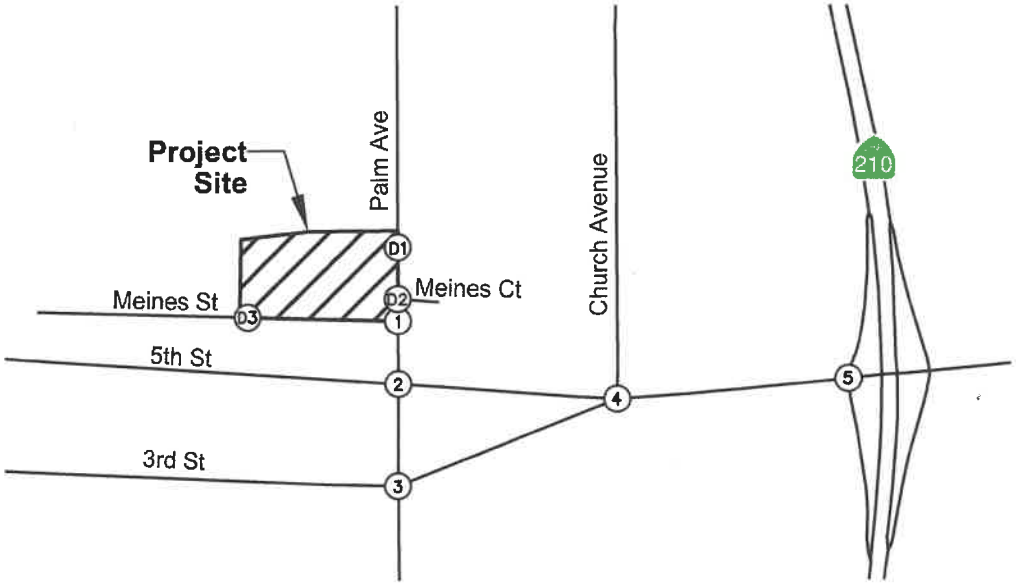
XX% = Passenger Car Distribution

YY%(ZZ%) = Passenger Car Percentage Inbound (Outbound)

ATTACHMENT 3 (C)
STUDY AREA - TRUCK TRIP DISTRIBUTION

Kimley»Horn

NOT TO SCALE



1. Palm Avenue at Meines Street	2. Palm Avenue at 5th Street	3. Palm Avenue at 3rd Street	4. Church Avenue at 5th Street	5. SR-210 EB Ramps at 5th Street
←9/30 4/18→ 18/8↑ 30/12↑	←1/4 ←3/14 ←9/30 ←43/17 4/2→ 1/1↑	←0/1 ←3/13 1/1↑	←43/17 9/30→ 3/13↑	←20/8 ←23/9 7/23→ 5/20→

D1. Palm Avenue at North Project Driveway	D2. Palm Avenue at Meines Court/ South Project Driveway	D3. Meines Street at Project Driveway
←5/2 2/5→ 20/8↑ 6/20→	←6/20 3/10→ 10/4↑ 20/8↑	←4/18 ←18/8

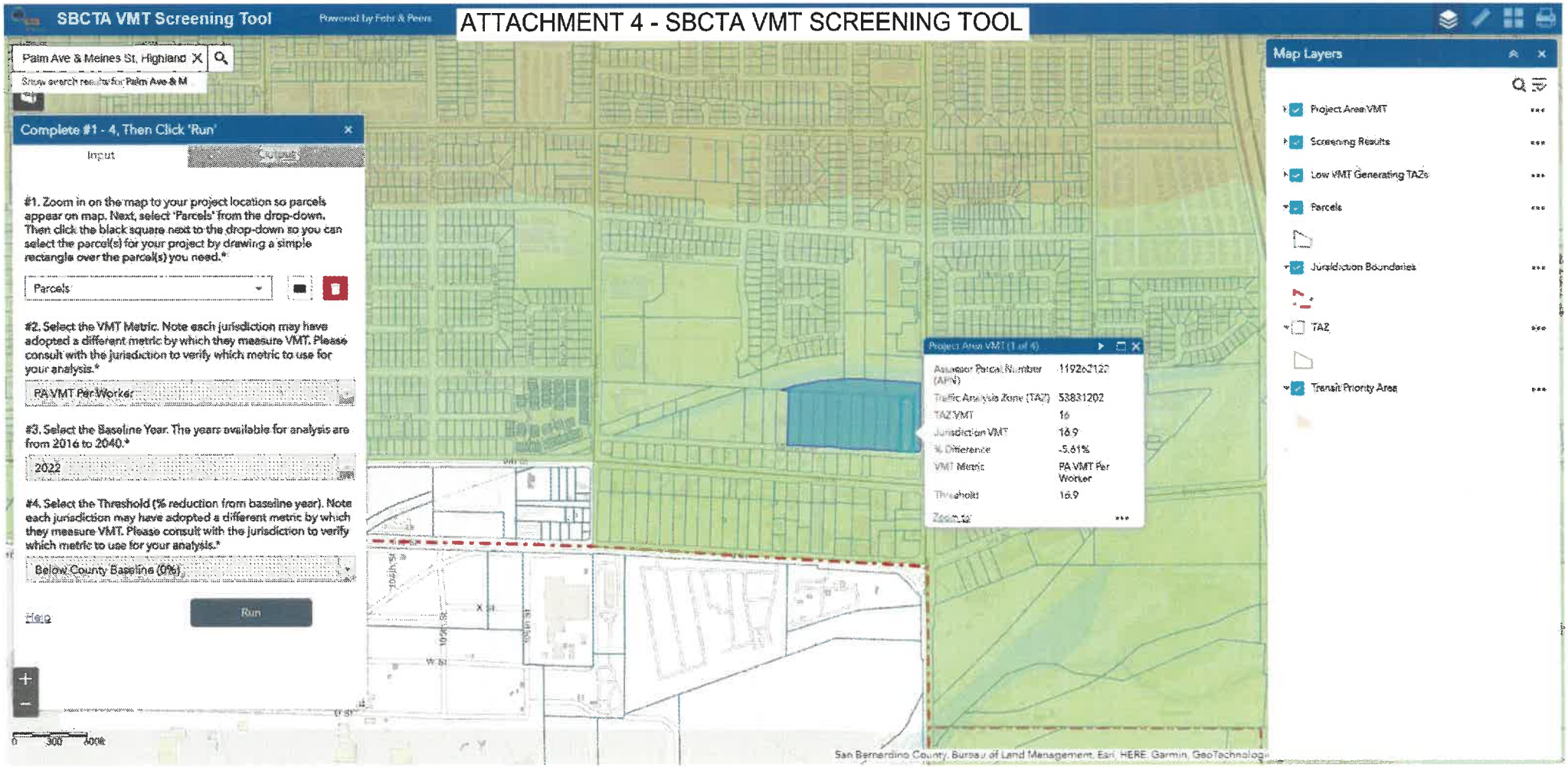
LEGEND:

(X) = Study Intersection

XX/YY = AM/PM Peak Hour Turning Movement Volumes

ATTACHMENT 3 (D)
STUDY AREA - PROJECT TRIP ASSIGNMENT

Kimley»Horn


SBCTA VMT Screening Tool
Powered by Fehr & Peers
ATTACHMENT 4 - SBCTA VMT SCREENING TOOL
Palm Ave & Meines St, Highland
Complete #1 - 4, Then Click 'Run'
Input
Outputs
#1. Zoom in on the map to your project location so parcels appear on map. Next, select 'Parcels' from the drop-down. Then click the black square next to the drop-down so you can select the parcel(s) for your project by drawing a simple rectangle over the parcel(s) you need.*
Parcels
#2. Select the VMT Metric. Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
PA VMT Per Worker
#3. Select the Baseline Year. The years available for analysis are from 2016 to 2040.*
2022
#4. Select the Threshold (% reduction from baseline year). Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
Below County Baseline (0%)
Help
Run
Project Area VMT (1 of 4)
Assessor Parcel Number (APN) 1192e2122
Traffic Analysis Zone (TAZ) 53831202
TAZ VMT 16
Jurisdiction VMT 16.9
% Difference -5.61%
VMT Metric PA VMT Per Worker
Threshold 16.9
Zoom to
Map Layers
Project Area VMT
Screening Results
Low VMT Generating TAZs
Parcels
Jurisdiction Boundaries
TAZ
Transit Priority Area
San Bernardino County, Bureau of Land Management, Esri, HERE, Garmin, GeoTechnologies

APPENDIX B

3RD STREET/5TH STREET CORRIDORS IMPROVEMENT PROJECT

3RD STREET / 5TH STREET CORRIDORS IMPROVEMENT SIGNING AND STRIPING PLAN

SIGNING AND STRIPING PLAN SHEET INDEX

(2) SIGNING AND STRIPING FOR 5TH STREET IMPROVEMENTS FROM STA 20+00 TO STA 36+50

(3) SIGNING AND STRIPING FOR 5TH STREET IMPROVEMENTS FROM STA 36+50 TO STA 50+00 & CENTRAL AVENUE IMPROVEMENTS STA 15+50 TO STA 17+40

(4) SIGNING AND STRIPING FOR 5TH STREET IMPROVEMENTS FROM STA 50+00 TO STA 66+00

(5) SIGNING AND STRIPING FOR 5TH STREET IMPROVEMENTS FROM STA 66+00 TO STA 82+00 & PALM AVENUE IMPROVEMENTS FROM STA 15+00 TO STA 17+50

(6) SIGNING AND STRIPING FOR 3RD STREET IMPROVEMENTS FROM STA 77+00 TO STA 105+25 & PALM AVENUE IMPROVEMENTS FROM STA 9+00 TO STA 11+00

(7) SIGNING AND STRIPING FOR 5TH STREET IMPROVEMENTS FROM STA 82+00 TO 89+00 & 3RD STREET IMPROVEMENTS FROM STA 105+25 TO 116+89

(8) SIGNING AND STRIPING FOR CENTRAL AVENUE IMPROVEMENTS FROM STA 10+00 TO 15+50

(9) SIGNING AND STRIPING FOR PALM AVENUE IMPROVEMENTS FROM STA 10+00 TO 20+00 & ALABAMA STREET IMPROVEMENTS FROM STA 4+00 TO STA 10+00

(10) SIGNING AND STRIPING FOR 5TH STREET IMPROVEMENTS STA 88+50 TO 98+22

(11) DETAILS

SIGNING AND STRIPING NOTES

(A) PROTECT IN PLACE

(R) REMOVE EXISTING STRIPING, PAVEMENT MARKERS, AND PAVEMENT MARKINGS

(1) APPLY 6–INCH THERMOPLASTIC SOLID DOUBLE YELLOW STRIPE PER CALTRANS STD PLAN A20A, DETAIL 22

(2) APPLY 6–INCH THERMOPLASTIC SOLID/DASHED DOUBLE YELLOW STRIPE PER CALTRANS STD PLAN A20B, DETAIL 32

(3) APPLY 6–INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20A, DETAIL 12

(4) APPLY 6–INCH THERMOPLASTIC SOLID WHITE STRIPE W/TYPE G RPM @ 25' O.C. ON THE RIGHT

(5) APPLY 8–INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A20D, DETAIL 38

(6) APPLY 12–INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A24F

(7) APPLY 6–INCH THERMOPLASTIC WHITE DASHED PER CALTRANS STD PLAN A20D DETAIL 39A

(8) APPLY 6–INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A20D, DETAIL 39

(9) APPLY 6–INCH THERMOPLASTIC SOLID DOUBLE YELLOW MEDIAN STRIPE PER CALTRANS STD PLAN A20B, DETAIL 29

(10) APPLY 6–INCH THERMOPLASTIC DASHED YELLOW STRIPE PER CALTRANS STD PLAN A20A DETAIL 2

(11) APPLY 6–INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20A DETAIL 9

(12) APPLY LIMIT LINE, 12" THERMOPLASTIC SOLID WHITE STRIPE

(13) APPLY THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD PLAN A24A TO A24G AS SHOWN ON PLAN

(14) APPLY 6–INCH THERMOPLASTIC SOLID YELLOW STRIPE PER CALTRANS STD PLAN A20B DETAIL 25

(15) APPLY 6–INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A20B DETAIL 27B

(16) APPLY 6–INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20D, DETAIL 40

(17) APPLY 12–INCH THERMOPLASTIC SOLID WHITE STRIPE CHEVRONS AT 30 FEET ON CENTER AT 30 DEGREE ANGLE

(18) APPLY 12–INCH THERMOPLASTIC SOLID YELLOW STRIPE AT 20 FEET ON CENTER 45 DEGREE ANGLE TO CENTERLINE AS SHOWN ON PLAN

(19) FURNISH AND INSTALL FIRE HYDRANT PAVEMENT MARKER PER MUTCD FIGURE 3B–102(CA)

(20) FURNISH AND INSTALL SIGN "NO PARKING / BIKE LANE" PER CITY OF HIGHLAND STD PLAN DETAIL 602 & 603 MODIFIED

(21) FURNISH AND INSTALL SIGN PANEL ON EXISTING SIGN POST/POLE

(22) FURNISH AND INSTALL SIGN PER CITY OF HIGHLAND STD PLAN DETAIL 603 MODIFIED

(23) APPLY 12–INCH THERMOPLASTIC SOLID WHITE STRIPE AT 10' ON CENTER 90° TO CENTERLINE

(24) RELOCATE EXISTING SIGN PANEL TO ANOTHER POST OR POLE

(25) RELOCATE EXISTING SIGN PANEL. INSTALL ON NEW FURNISHED SIGN POST

(26) RELOCATE EXISTING SIGN

(27) NOT USED

(28) APPLY 8–INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20C DETAIL 37B

(29) REMOVE AND SALVAGE EXISTING SIGN PANEL

(31) REMOVE AND SALVAGE EXISTING SIGN AND POST

(32) APPLY 12–INCH THERMOPLASTIC SOLID WHITE STRIPE AT 20 FEET ON CENTER 45 DEGREE ANGLE TO CENTERLINE AS SHOWN ON PLAN

(33) APPLY 2–COATED RED PAINT ON CURB, LENGTH PER PLAN

DIG ALERT
CALL BEFORE YOU DIG
811

BENCHMARK
THE ELEVATIONS FOR THIS SURVEY ARE BASED ON THE CITY OF HIGHLAND BENCHMARK #0001, BEING A CHISELED BOX AT THE EAST END OF THE NORTHEAST CURB RETURN AT 5TH STREET AND CHURCH AVENUE.
ELEVATION (NGVD29) = 1,213.30'

BASIS OF BEARING
THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE V, NAD83 (2017.50 EPOCH) AT CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) "P612", "RTHS" AND "CRFP" AS DERIVED FROM COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) COMPUTED ON 11/11/2017.

SEAL
REGISTERED PROFESSIONAL ENGINEER — ANNE M. HERNANDEZ — No. 42245 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
DATE: 03 / 02 / 2022

PLANS PREPARED BY:
Hernandez, Kroone & Associates
Engineers & Land Surveyors
HQ: 234 East Drake Drive, San Bernardino, CA 92408
PHONE: 909-884-3222 ▲ info@hkagroup.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE
0	BID SET	AH	03/02/22

CITY OF HIGHLAND

RECOMMENDED BY
ROBERT DOSS DATE
R.C.E. 31236 EXP. 9–30–22

APPROVED BY
CARLOS ZAMANO, CITY ENGINEER DATE
R.C.E. 60153 EXP. 6–30–22

3RD STREET / 5TH STREET CORRIDORS IMPROVEMENT
PROJECT NO. STR18001

SIGNING AND STRIPING PLAN
SIGNING AND STRIPING INDEX SHEET

DRAWING NO. SS-1

SHEET 62 OF 92

Path: J:\2018\18-1037 HIGHLAND – 3RD & 5TH STREET CORRIDOR IMPROVEMENT\DWG\STP\18037-SHT-STP01-INDEX – SHEET 1.DWG
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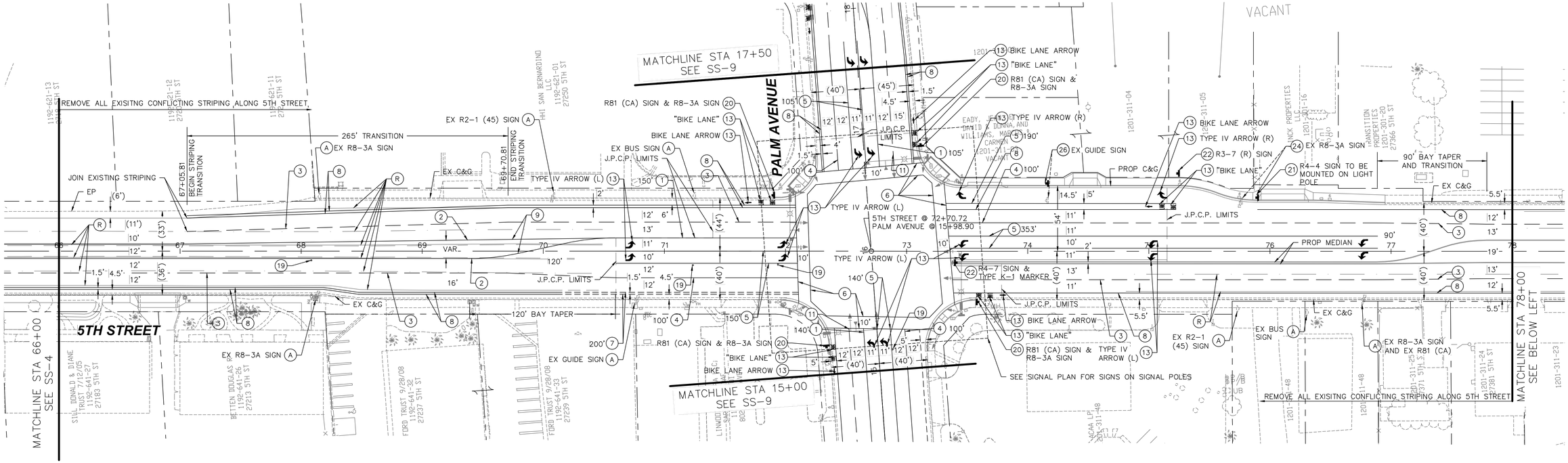

SIGNING AND STRIPING NOTES

- (A) PROTECT IN PLACE
- (R) REMOVE EXISTING STRIPING, PAVEMENT MARKERS, AND PAVEMENT MARKINGS
- (1) APPLY 6-INCH THERMOPLASTIC SOLID DOUBLE YELLOW STRIPE PER CALTRANS STD PLAN A20A, DETAIL 22
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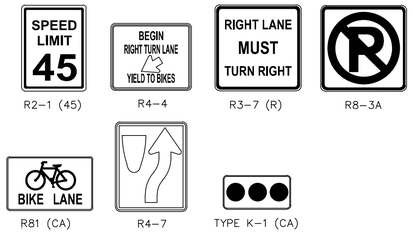
- (3) APPLY 6-INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20A, DETAIL 12
- (4) APPLY 6-INCH THERMOPLASTIC SOLID WHITE STRIPE W/TYPE G RPM @ 25' O.C. ON THE RIGHT
- (5) APPLY 8-INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A20D, DETAIL 38
- (6) APPLY 12-INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A24F
- (7) APPLY 6-INCH THERMOPLASTIC WHITE DASHED PER CALTRANS STD PLAN A20D DETAIL 39A
- (8) APPLY 6-INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A20D, DETAIL 39
- (9) APPLY 6-INCH THERMOPLASTIC SOLID DOUBLE YELLOW MEDIAN STRIPE PER CALTRANS STD PLAN A20B, DETAIL 29
- (11) APPLY 6-INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20A DETAIL 9
- (13) APPLY THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD PLAN A24A TO A24G AS SHOWN ON PLAN
- (19) FURNISH AND INSTALL FIRE HYDRANT PAVEMENT MARKER PER MUTCD FIGURE 3B-102(CA)
- (20) FURNISH AND INSTALL SIGN "NO PARKING / BIKE LANE" PER CITY OF HIGHLAND STD PLAN DETAIL 602 & 603 MODIFIED
- (21) FURNISH AND INSTALL SIGN PANEL ON EXISTING SIGN POST/POLE
- (22) FURNISH AND INSTALL SIGN PER CITY OF HIGHLAND STD PLAN DETAIL 603 MODIFIED
- (24) RELOCATE EXISTING SIGN PANEL TO ANOTHER POST OR POLE
- (26) RELOCATE EXISTING SIGN.

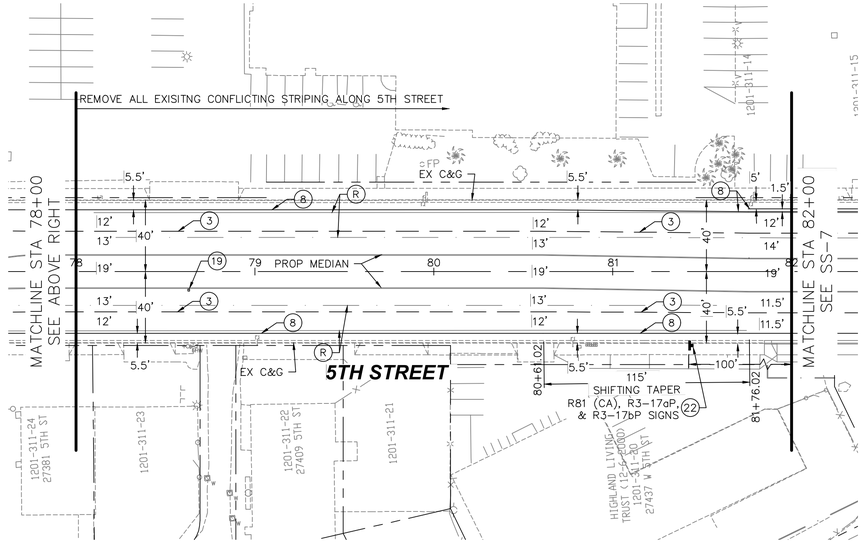
SIGN LEGEND



R2-1 (45) · R4-4 · R3-7 (R) · R8-3A · R81 (CA) · R4-7 · TYPE K-1 (CA)

LEGEND

- EXISTING SIGN – GROUND MOUNTED
- EXISTING SIGN – MOUNTED ON POLE
- PROPOSED SIGN – GROUND MOUNTED
- PROPOSED SIGN – MOUNTED ON POLE
- EXISTING LIGHT STANDARD
- PROPOSED JOINTED PLAIN CONCRETE PAVEMENT (J.P.C.P.) LIMITS



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BENCHMARK
THE ELEVATIONS FOR THIS SURVEY ARE BASED ON THE CITY OF HIGHLAND BENCHMARK #0001, BEING A CHISELED BOX AT THE EAST END OF THE NORTHEAST CURB RETURN AT 5TH STREET AND CHURCH AVENUE.
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SEAL
REGISTERED PROFESSIONAL ENGINEER — ANNE M. HERNANDEZ — No. 42249 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
DATE: 03 / 02 / 2022

PLANS PREPARED BY:
Hernandez, Kroone & Associates
Engineers & Land Surveyors
HQ: 234 East Drake Drive, San Bernardino, CA 92408
PHONE: 909-884-3222 ▲ info@hkagroup.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE
0	BID SET	AH	03/02/22

CITY OF HIGHLAND

RECOMMENDED BY
ROBERT DOSS DATE
R.C.E. 31236 EXP. 9-30-22

APPROVED BY
CARLOS ZAMANO, CITY ENGINEER DATE
R.C.E. 60153 EXP. 6-30-22

3RD STREET / 5TH STREET CORRIDORS IMPROVEMENT PROJECT NO. STR18001

SIGNING AND STRIPING PLAN
5TH STREET IMPROVEMENTS
FROM STA 66+00 TO STA 82+00
PALM AVENUE IMPROVEMENTS
FROM STA 15+00 TO STA 17+50

DRAWING NO. SS-5

SHEET 66 OF 92

Path: J:\2018\18-1037 HIGHLAND - 3RD & 5TH STREET CORRIDOR IMPROVEMENT\DWG\SITP\18037-SHT-STP05-5TH - SHEET 5.DWG
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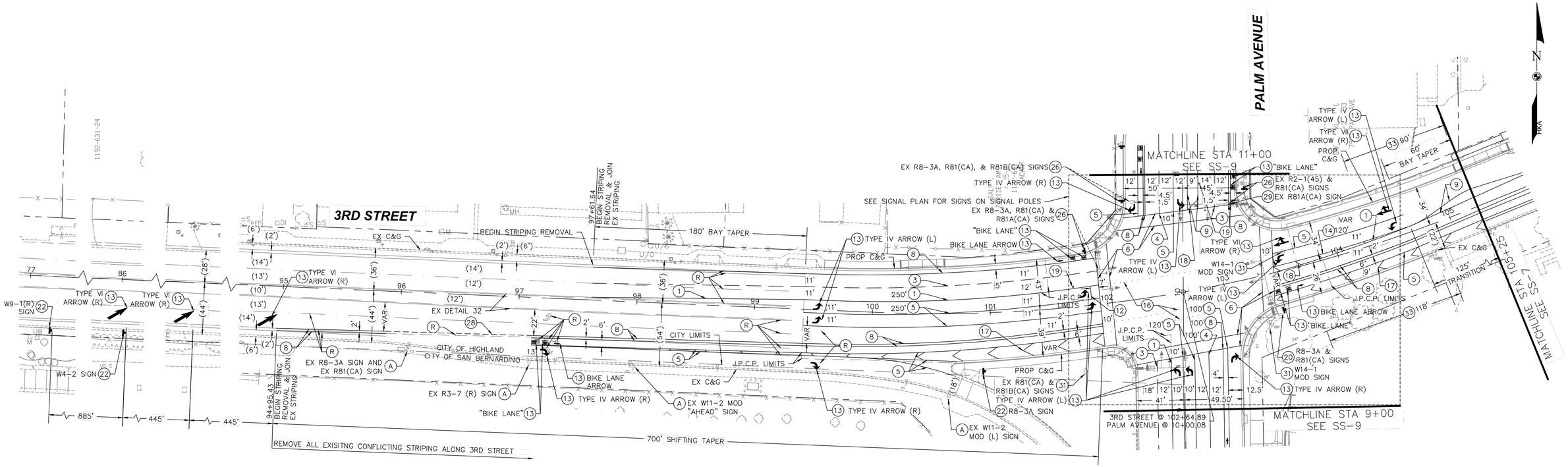

SIGNING AND STRIPING NOTES

(A) PROTECT IN PLACE

(R) REMOVE EXISTING STRIPING, PAVEMENT MARKERS, AND PAVEMENT MARKINGS

(1) APPLY 6-INCH THERMOPLASTIC SOLID DOUBLE YELLOW STRIPE PER CALTRANS STD PLAN A20A, DETAIL 22

(3) APPLY 6-INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20A, DETAIL 12

(4) APPLY 6-INCH THERMOPLASTIC SOLID WHITE STRIPE W/TYPE G RPM @ 25' O.C. ON THE RIGHT

(5) APPLY 8-INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A20D, DETAIL 38

(6) APPLY 12-INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A24F

(8) APPLY 6-INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A20D, DETAIL 39

(9) APPLY 6-INCH THERMOPLASTIC SOLID DOUBLE YELLOW MEDIAN STRIPE PER CALTRANS STD PLAN A20B, DETAIL 29

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(16) APPLY 6-INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20B, DETAIL 40

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(20) FURNISH AND INSTALL SIGN "NO PARKING / BIKE LANE" PER CITY OF HIGHLAND STD PLAN DETAIL 602 & 603 MODIFIED.

(22) FURNISH AND INSTALL SIGN PER CITY OF HIGHLAND STD PLAN DETAIL 603 MODIFIED

(26) RELOCATE EXISTING SIGN

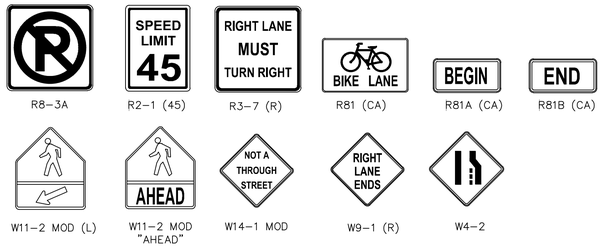
(28) APPLY 8-INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20C DETAIL 37B

(29) REMOVE AN SALVAGE EXISTING SIGN PANEL

(31) REMOVE AND SALVAGE EXISTING SIGN AND POST

(33) APPLY 2-COATED RED PAINT ON CURB, LENGTH PER PLAN

SIGN LEGEND



LEGEND

- EXISTING SIGN – GROUND MOUNTED
- EXISTING SIGN – MOUNTED ON POLE
- PROPOSED SIGN – GROUND MOUNTED
- PROPOSED SIGN – MOUNTED ON POLE
- EXISTING LIGHT STANDARD
- PROPOSED JOINTED PLAIN CONCRETE PAVEMENT (J.P.C.P.) LIMITS
- CITY LIMITS

0 40' 80' 120'

1" = 40'

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811

BENCHMARK
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SEAL
REGISTERED PROFESSIONAL ENGINEER — ANNE M. HERNANDEZ — No. 42849 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
DATE: 03 / 02 / 2022

PLANS PREPARED BY:
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Engineers & Land Surveyors
HQ: 234 East Drake Drive, San Bernardino, CA 92408
PHONE: 909-884-3222 ▲ info@hkagroup.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE
0	BID SET	AH	03/02/22

CITY OF HIGHLAND

RECOMMENDED BY
ROBERT DOSS DATE
R.C.E. 31236 EXP. 9-30-22

APPROVED BY
CARLOS ZAMANO, CITY ENGINEER DATE
R.C.E. 60153 EXP. 6-30-22

3RD STREET / 5TH STREET CORRIDORS IMPROVEMENT PROJECT NO. STR18001

SIGNING AND STRIPING PLAN
3RD STREET IMPROVEMENTS
FROM STA 77+00 TO STA 105+25
PALM AVENUE IMPROVEMENTS
FROM STA 9+00 TO STA 11+00

DRAWING NO. SS-6

SHEET 67 OF 92

Path: J:\2018\18-1057 HIGHLAND - 3RD & 5TH STREET CORRIDOR IMPROVEMENT\DWG\STP\181037-SHT-STP06-3RD - SHEET 6.DWG
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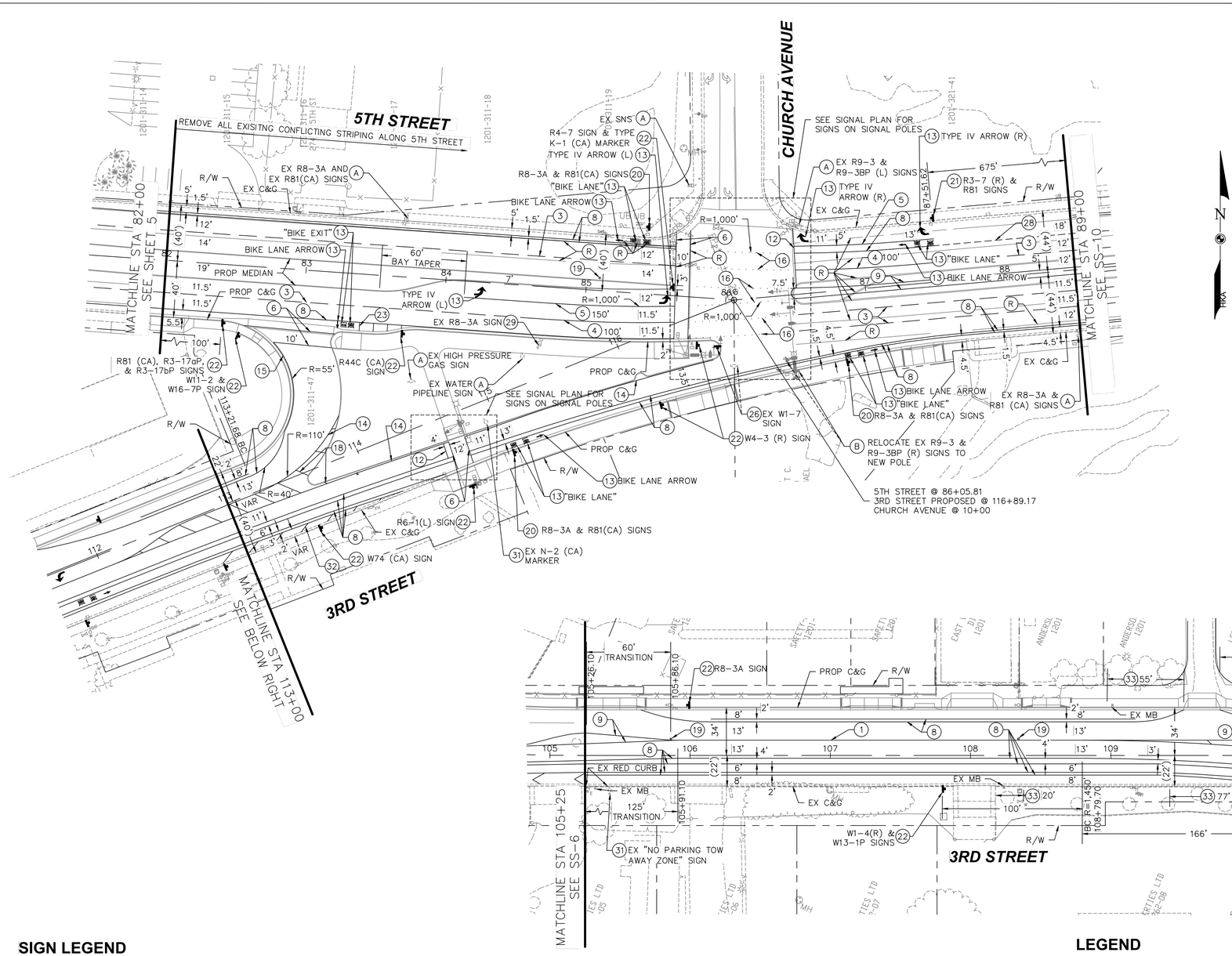

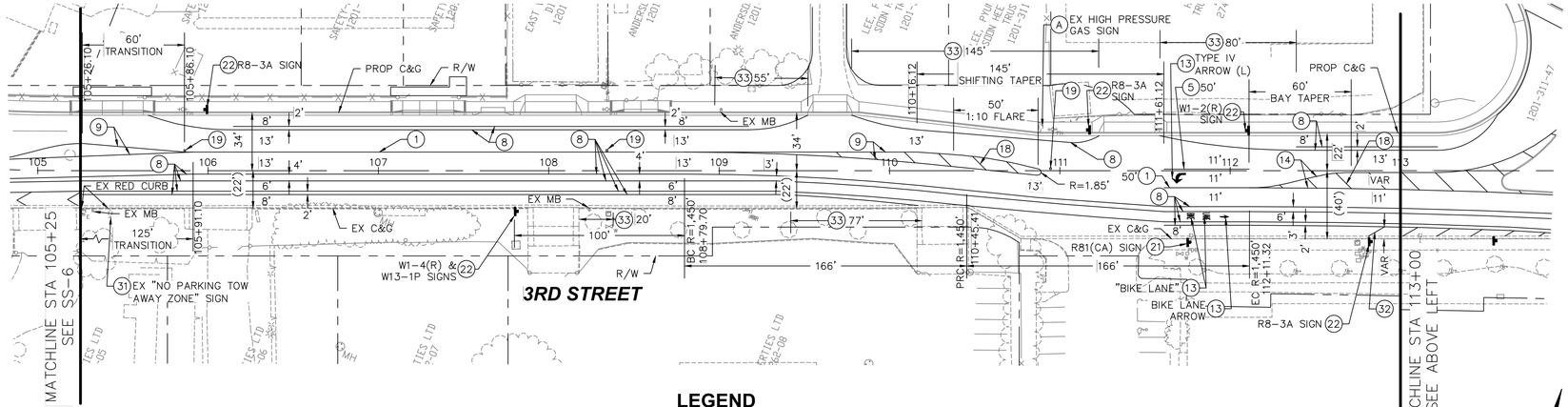

SIGNING AND STRIPING NOTES

(A) PROTECT IN PLACE
(B) SEE SIGNAL PLANS
(R) REMOVE EXISTING STRIPING, PAVEMENT MARKERS, AND PAVEMENT MARKINGS
(1) APPLY 6-INCH THERMOPLASTIC SOLID DOUBLE YELLOW STRIPE PER CALTRANS STD PLAN A20A DETAIL 22
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(8) APPLY 6-INCH THERMOPLASTIC SOLID WHITE STRIPE PER CALTRANS STD PLAN A20D DETAIL 39
(9) APPLY 6-INCH THERMOPLASTIC SOLID DOUBLE YELLOW MEDIAN STRIPE PER CALTRANS STD PLAN A20B DETAIL 29
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(22) FURNISH AND INSTALL SIGN PER CITY OF HIGHLAND STD PLAN DETAIL 603 MODIFIED
(23) APPLY 12-INCH THERMOPLASTIC SOLID WHITE STRIPE AT 10' ON CENTER 90° TO CENTERLINE
(24) RELOCATE EXISTING SIGN PANEL ON POST OR POLE
(26) RELOCATE EXISTING SIGN
(28) APPLY 8-INCH THERMOPLASTIC DASHED WHITE STRIPE PER CALTRANS STD PLAN A20C DETAIL 37B
(29) REMOVE AND SALVAGE EXISTING SIGN PANEL
(31) REMOVE AND SALVAGE EXISTING SIGN AND POST
(32) APPLY 12-INCH THERMOPLASTIC SOLID WHITE STRIPE AT 20 FEET ON CENTER 45 DEGREE ANGLE TO CENTERLINE AS SHOWN ON PLAN
(33) APPLY 2-COATED RED PAINT ON CURB, LENGTH PER PLAN

SIGN LEGEND

R3-7 (R) — RIGHT LANE MUST TURN RIGHT
R3-17aP — AHEAD
R3-17bP — ENDS
R4-7
R6-1 (L) — ONE WAY
R8-3A
R9-3
R9-3BP (L) — USE CROSSWALK
R9-3BP (R) — USE CROSSWALK
W1-4(R)
W13-1P — 35 MPH
R44C (CA) — BICYCLES MUST EXIT
R81 (CA) — BIKE LANE
W1-7
W4-3 (R)
W11-2
W16-7P
"NO PARKING TWO AWAY ZONE" — NO PARKING TOW AWAY ZONE
N-2 (CA)
TYPE K-1 (CA)
W1-2(R)
W74(CA) — THRU TRAFFIC MERGE LEFT

LEGEND

EXISTING SIGN – GROUND MOUNTED
EXISTING SIGN – MOUNTED ON POLE
PROPOSED SIGN – GROUND MOUNTED
PROPOSED SIGN – MOUNTED ON POLE
EXISTING LIGHT STANDARD
EXISTING MAILBOX

DIG ALERT
CALL BEFORE YOU DIG
811

BENCHMARK
THE ELEVATIONS FOR THIS SURVEY ARE BASED ON THE CITY OF HIGHLAND BENCHMARK #0001, BEING A CHISELED BOX AT THE EAST END OF THE NORTHEAST CURB RETURN AT 5TH STREET AND CHURCH AVENUE.
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SEAL — REGISTERED PROFESSIONAL ENGINEER — ANNE M. HERNANDEZ — No. 42245 — CIVIL — STATE OF CALIFORNIA

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CARLOS ZAMANO, CITY ENGINEER DATE
R.C.E. 60153 EXP. 6-30-22

3RD STREET / 5TH STREET CORRIDORS IMPROVEMENT
PROJECT NO. STR18001

SIGNING AND STRIPING PLAN
5TH STREET IMPROVEMENTS
FROM STA 82+00 TO 89+00
3RD STREET IMPROVEMENTS
FROM STA 105+25 TO 116+89

DRAWING NO. SS-7
SHEET 68 OF 92

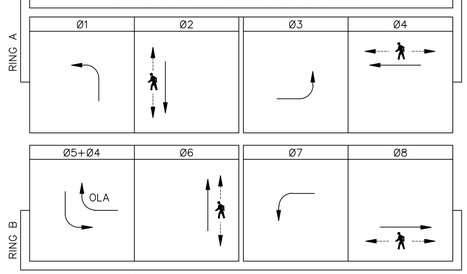
Path: J:\2018\18-1037 HIGHLAND - 3RD & 5TH STREET CORRIDOR IMPROVEMENT\DWG\STP\181037-SHT-STP07-5TH3RD - SHEET2.DWG
Plot Date: Mar. 2, 22 5:53 PM

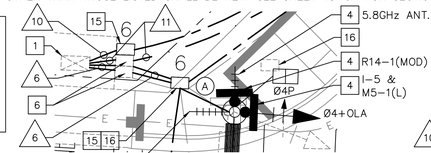
POLE SCHEDULE

POLE	SIGNAL STANDARD TYPE	SIG. M.A.	LUM. M.A.	POLE HT.	*F DIST.	LUMINAIRE LED (WATTS)	STREET NAME SIGN TYPE LEGEND	VEHICLE SIGNAL MOUNTING M.A. (END)	M.A. (*F DIST.)	POLE	PED. SIG. MOUNTING (POLE)	PED. PUSH BUTTON PHASE	QUAD.	ARROW	PLACEMENT** A	B	REMARKS*** SEE TC-3A FOR DETAILS
(A)	26-4-100	45'	15'	30'	20'	71 W	PALM	MAS	MAS	SV-1-T	SP-1-T	Ø2	E	→	6.75'	3'	INSTALL 5-SECTION HEAD FOR Ø4+OLA; INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø7
(B)	1-A	–	–	10'	–	–	–	–	–	TV-2-T	SP-1-T	Ø4	S	→	7'	3'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø1
(C)	29-5-100	50'	15'	30'	24'	71 W	5TH ST	MAS	MAS	SV-1-T	SP-1-T	Ø4	S	←	9.5'	3'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø1
(D)	1-A	–	–	10'	–	–	–	–	–	TV-2-T	SP-1-T	Ø6	W	→	10'	3'	INSTALL 5-SECTION HEAD FOR Ø4+OLA; INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø3
(E)	29-5-100	50'	15'	30'	22'	71 W	PALM	MAS	MAS	SV-1-T	SP-1-T	Ø6	W	←	11.75'	8'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø3
(F)	1-A	–	–	10'	–	–	–	–	–	TV-2-T	SP-1-T	Ø8	N	→	12'	8'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø5
(G)	29-5-100	50'	15'	30'	22'	71 W	5TH ST	MAS	MAS	SV-1-T	SP-1-T	Ø8	N	←	9.5'	8'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø5
(H)	1-A	–	–	10'	–	–	–	–	–	TV-2-T	SP-1-T	Ø2	E	→	9.75'	8'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø7

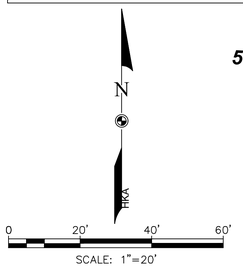
ABBREVIATIONS: DIST.=DISTANCE; HT.=HEIGHT; LUM.=LUMINAIRE; M.A.=MAST ARM; PED.=PEDESTRIAN; QUAD.=QUADRANT; SIG.=SIGNAL
*REFER TO CALTRANS STANDARD PLANS; **REFER TO POLE PLACEMENT DIAGRAM (SHEET TS-3A); ***REFER TO SIGNAL EQUIPMENT RELOCATION GUIDE FOR PLACEMENT AND REUSE OF EXISTING SIGNAL EQUIPMENT; ALL OTHER EQUIPMENT OTHER THAN THOSE LISTED SHALL BE NEW. SEE SHEET TS-3A FOR SECTION HEAD DETAILS.

SIGNAL PHASE DIAGRAM





DETAIL "A"
SCALE: 1=10'



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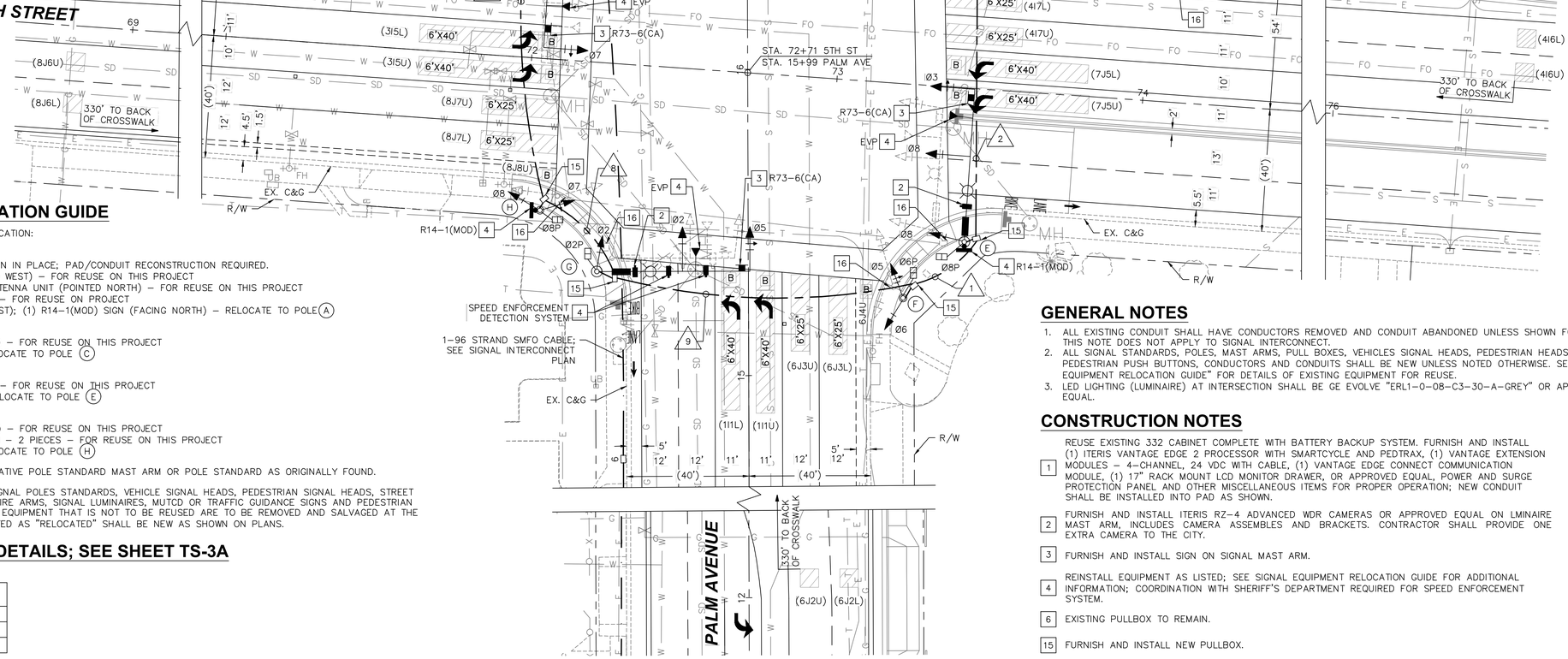


CONDUCTOR SCHEDULE

AWG SIZE, WIRE OR CABLE TYPE	POLE	PHASE OR PURPOSE	CONDUIT SIZE AND RUN NUMBER 1	2	3	4	5	6	7	8	9	10	11
12 WIRE CONDUCTOR CABLE 11-#14 1-#12	(A)	Ø4,Ø7,Ø4+OLA,Ø4P /Ø2PPB						2/1					
	(B)	Ø1,Ø2,Ø2P /Ø4PPB					1/1	1/1					
	(C)	Ø1,Ø6,Ø6P /Ø4PPB				1/1	1/1	1/1					
	(D)	Ø3,Ø4+OLA,Ø4P /Ø6PPB			2/1	2/1	2/1	2/1					
	(E)	Ø3,Ø8,Ø8P /Ø6PPB		1/1	1/1	1/1	1/1	1/1					
	(F)	Ø5,Ø6,Ø6P /Ø8PPB	1/1	1/1	1/1	1/1	1/1	1/1					
3 WIRE CONDUCTOR CABLE	(G)	Ø2,Ø5,Ø2P /Ø8PPB						1/1	1/1	1/1			
	(H)	Ø7,Ø8,Ø8P /Ø2PPB						1/1	1/1				
TOTAL OF CONDUCTOR SIGNAL CABLES			1/1	2/2	4/3	5/4	6/5	10/8	2/2	1/1			
#6		SIGNAL SERVICE										2	
#10		LUMINAIRE		2	2	2	2	2	2	2			
#12		IISNS		2	2	2	2	2	2	2			
OPTICOM CABLE #138		EVP		1	1	2	2	4	1	1			
3-#16		VIDEO POWER CABLE		1	1	2	2	6	3	3			
BELDON #8281 COAX		VIDEO CABLE		1	1	2	2	6	3	3			
LMR 400		COMM. COAX (ENCOM)						1					
CAT 5e		ETHERNET (POE FOR ENCOM)						1					
96 SMFO		SIGNAL INTERCONNECT											2
PULL ROPE		FOR FUTURE USE									1		
PERCENT FILL			9%	23%	22%	19%	21%	20%	20%	18%	3%	2%	5%
CONDUIT SIZES (INCHES)			1-3"	1-3"	1-4"	2-3.5"	2-3.5"	3-4"	1-3.5"	1-3"	1-3"	1-3"	1-3"

LEGEND

- (B) — BICYCLE VIDEO DETECTION ZONE; 4'X6'
- SIZE — VEHICLE VIDEO DETECTION ZONE; SIZE AS NOTED
- SIZE — FURNISH AND INSTALL PULL BOX; SIZE IS NO. 5 UNLESS NOTED OTHERWISE
- EXISTING CONTROLLER CABINET
- PROPOSED SERVICE ENCLOSURE
- EXISTING SIGNAL CONDUIT
- PROPOSED SIGNAL CONDUIT
- PROPOSED SIGNAL INTERCONNECT
- EXISTING SIGN – MOUNTED ON POLE
- PROPOSED SIGN – MOUNTED ON POLE

SIGNAL EQUIPMENT RELOCATION GUIDE

EXISTING SIGNAL EQUIPMENT LOCATION AND RELOCATION:

NORTHWEST CORNER
- (1) TRAFFIC SIGNAL ENCLOSURE – TO REMAIN IN PLACE; PAD/CONDUIT RECONSTRUCTION REQUIRED.
- (1) 900MHz ENCOM YAGI ANTENNA (POINTED WEST) – FOR REUSE ON THIS PROJECT
- (1) 5.8GHz ENCOM WIRELESS RADIO AND ANTENNA UNIT (POINTED NORTH) – FOR REUSE ON THIS PROJECT
- (1) EVP DETECTION DEVICE (POINTED EAST) – FOR REUSE ON PROJECT
- (1) I-5 AND (1) M5-1(L) SIGNS (FACING EAST); (1) R14-1(MOD) SIGN (FACING NORTH) – RELOCATE TO POLE (A)

NORTHEAST CORNER
- (1) EVP DETECTION DEVICE (POINTED SOUTH) – FOR REUSE ON THIS PROJECT
- (1) R14-1(MOD) SIGN (FACING EAST) – RELOCATE TO POLE (C)

SOUTHEAST CORNER
- (1) EVP DETECTION DEVICE (POINTED WEST) – FOR REUSE ON THIS PROJECT
- (1) R14-1(MOD) SIGN (FACING SOUTH) – RELOCATE TO POLE (E)

SOUTHWEST CORNER
- (1) EVP DETECTION DEVICE (POINTED NORTH) – FOR REUSE ON THIS PROJECT
- (1) SPEED ENFORCEMENT DETECTION SYSTEM – 2 PIECES – FOR REUSE ON THIS PROJECT
- (1) R14-1(MOD) SIGN (FACING WEST) – RELOCATE TO POLE (H)

REUSED EQUIPMENT SHALL BE PLACED ON A RELATIVE POLE STANDARD MAST ARM OR POLE STANDARD AS ORIGINALLY FOUND.

OTHER EQUIPMENT SUCH AS EXISTING TRAFFIC SIGNAL POLES STANDARDS, VEHICLE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, STREET NAME SIGNS, SIGNAL MAST ARMS, SIGNAL LUMINAIRE ARMS, SIGNAL LUMINAIRES, MUTCD OR TRAFFIC GUIDANCE SIGNS AND PEDESTRIAN PUSH BUTTONS ARE NOT TO BE REUSED. SIGNAL EQUIPMENT THAT IS NOT TO BE REUSED ARE TO BE REMOVED AND SALVAGED AT THE CITY YARD. ALL OTHER EQUIPMENT NOT DESIGNATED AS "RELOCATED" SHALL BE NEW AS SHOWN ON PLANS.

SIGN LEGEND AND SIGNAL DETAILS; SEE SHEET TS-3A

QUANTITY FOR SIGNAL STANDARD REMOVAL	
29-5-100	1
1-A	4
26-4-80	3

GENERAL NOTES

1. ALL EXISTING CONDUIT SHALL HAVE CONDUCTORS REMOVED AND CONDUIT ABANDONED UNLESS SHOWN FOR REUSE; THIS NOTE DOES NOT APPLY TO SIGNAL INTERCONNECT.
2. ALL SIGNAL STANDARDS, POLES, MAST ARMS, PULL BOXES, VEHICLES SIGNAL HEADS, PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, CONDUCTORS AND CONDUITS SHALL BE NEW UNLESS NOTED OTHERWISE. SEE "SIGNAL EQUIPMENT RELOCATION GUIDE" FOR DETAILS OF EXISTING EQUIPMENT FOR REUSE.
3. LED LIGHTING (LUMINAIRE) AT INTERSECTION SHALL BE GE EVOLVE "ERL1-0-08-C3-30-A-GREY" OR APPROVED EQUAL.

CONSTRUCTION NOTES

1. REUSE EXISTING 332 CABINET COMPLETE WITH BATTERY BACKUP SYSTEM. FURNISH AND INSTALL (1) ITERIS VANTAGE EDGE 2 PROCESSOR WITH SMARTCYCLE AND PEDTRAX, (1) VANTAGE EXTENSION MODULES – 4-CHANNEL, 24 VDC WITH CABLE, (1) VANTAGE EDGE CONNECT COMMUNICATION MODULE, (1) 17" RACK MOUNT LCD MONITOR DRAWER, OR APPROVED EQUAL, POWER AND SURGE PROTECTION PANEL AND OTHER MISCELLANEOUS ITEMS FOR PROPER OPERATION; NEW CONDUIT SHALL BE INSTALLED INTO PAD AS SHOWN.
2. FURNISH AND INSTALL ITERIS RZ-4 ADVANCED WDR CAMERAS OR APPROVED EQUAL ON LMINAIRE MAST ARM, INCLUDES CAMERA ASSEMBLES AND BRACKETS. CONTRACTOR SHALL PROVIDE ONE EXTRA CAMERA TO THE CITY.
3. FURNISH AND INSTALL SIGN ON SIGNAL MAST ARM.
4. REINSTALL EQUIPMENT AS LISTED; SEE SIGNAL EQUIPMENT RELOCATION GUIDE FOR ADDITIONAL INFORMATION; COORDINATION WITH SHERIFF'S DEPARTMENT REQUIRED FOR SPEED ENFORCEMENT SYSTEM.
6. EXISTING PULLBOX TO REMAIN.
15. FURNISH AND INSTALL NEW PULLBOX.
16. REMOVE AND DISPOSE EXISTING PULLBOX.

DIG ALERT
CALL BEFORE YOU DIG
811

BENCHMARK
THE ELEVATIONS FOR THIS SURVEY ARE BASED ON THE CITY OF HIGHLAND BENCHMARK #0001, BEING A CHISELED BOX AT THE EAST END OF THE NORTHEAST CURB RETURN AT 5TH STREET AND CHURCH AVENUE.
ELEVATION (NGVD29) = 1,213.30'

BASIS OF BEARING
THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE V, NAD83 (2017.50 EPOCH) AT CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) "P612", "RTHS" AND "CRFP" AS DERIVED FROM COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) COMPUTED ON 11/11/2017.

SEAL
REGISTERED PROFESSIONAL ENGINEER — ANNE M. HERNANDEZ — No. 42245 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
DATE: 03 / 02 / 2022

PLANS PREPARED BY:
Hernandez, Kroone & Associates
Engineers & Land Surveyors
HQ: 234 East Drake Drive, San Bernardino, CA 92408
PHONE: 909-884-3222 ▲ info@hkagroup.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE
0	BID SET	AH	03/02/22

CITY OF HIGHLAND

RECOMMENDED BY
ROBERT DOSS DATE
R.C.E. 31236 EXP. 9-30-22

APPROVED BY
CARLOS ZAMANO, CITY ENGINEER DATE
R.C.E. 60153 EXP. 6-30-22

3RD STREET / 5TH STREET CORRIDORS IMPROVEMENT PROJECT NO. STR18001

SIGNAL MODIFICATION PLANS
5TH STREET AND PALM AVENUE

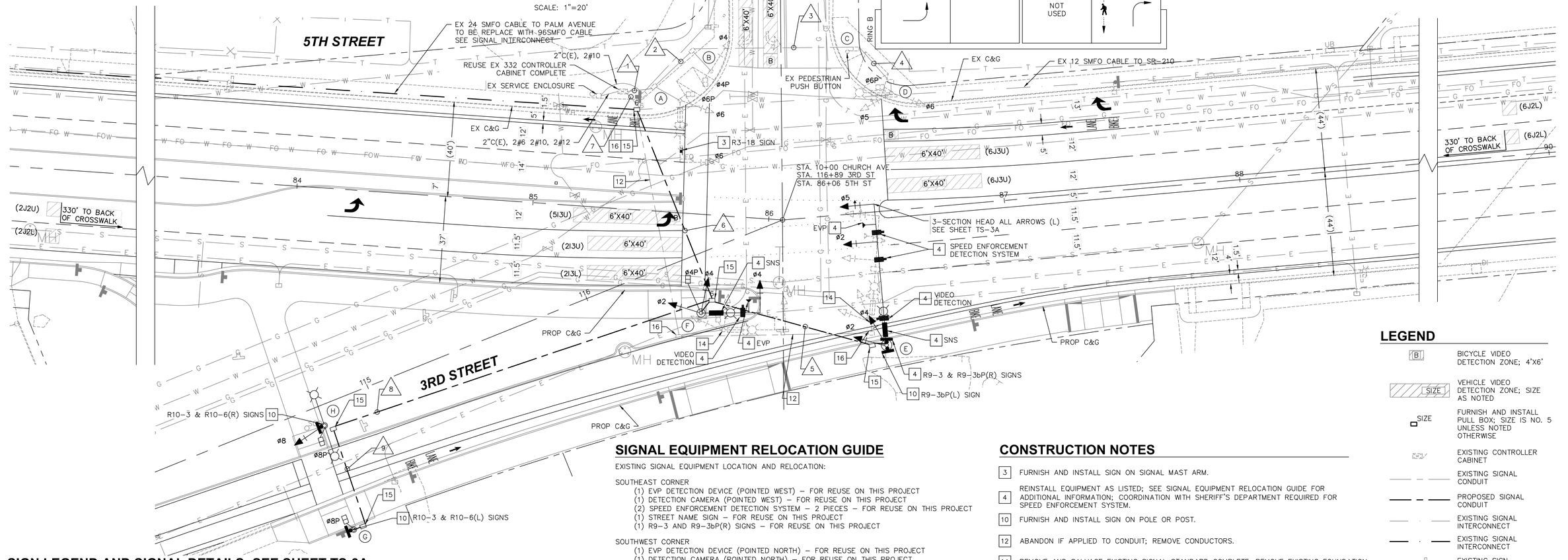
DRAWING NO. TS-1
SHEET 73 OF 92

Path: J:\2018\18-1037 HIGHLAND - 3RD & 5TH STREET CORRIDOR IMPROVEMENT\DWG\TSP\181037-SHT-TSP01-5THPALM - PALM AND 5TH.DWG
Plot Date: Mar. 2, 22 3:34 PM

CONDUCTOR SCHEDULE

AWG SIZE, WIRE OR CABLE TYPE	POLE	PHASE OR PURPOSE	CONDUIT SIZE AND RUN NUMBER 1	2	3	4	5	6	7	8	9
12 WIRE CONDUCTOR CABLE 11–#14 1–#12	A	Ø6,Ø6P /Ø4PPB	1/1								
	B	Ø4,Ø4P /Ø6PPB	1/1	1/1							
	C	– /Ø6PPB	0/1	0/1	0/1						
	D	Ø5,Ø6,Ø6P / –	1/0	1/0	1/0	1/0					
	E	Ø2,Ø4,Ø5 / –					1/0	1/0	1/0		
	F	Ø2,Ø4,Ø4P /Ø4PPB						1/1	1/1		
3 WIRE CONDUCTOR CABLE	G	Ø8P /Ø8PPB						1/1	1/1	1/1	1/1
	H	Ø8,Ø8P /Ø8PPB						1/1	1/1	1/1	
TOTAL CABLES			3/3	2/2	1/1	1/0	1/0	4/3	4/3	2/2	1/1
#10	LUMINAIRE		2	2	2	2	2	4	4	2	
#12	IISNS		2				2	2	2		
3–#16	VIDEO CAMERA POWER		1				1	2	2		
#6	SIGNAL SERVICE										
OPTICOM CABLE #138	EVP		1				1	2	2		
BELDON #8281 COAX	VIDEO CABLE		1				1	2	2		
12–SMFO	INTERCONNECT CABLE								1		
PERCENT FILL			16%	9%	11%	18%	12%	21%	22%	19%	20%
CONDUIT SIZES (INCHES)			(2–3")	(2–3")	(3")	(2")	3"	2–3"	(2–3")	3"	2"

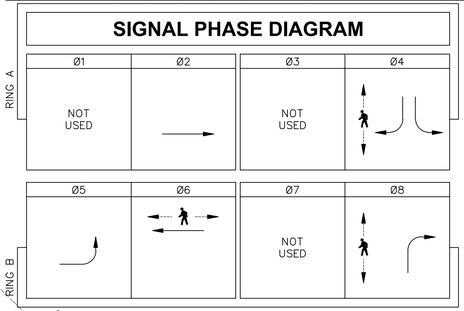
NOTE: (XX) INDICATE EXISTING CONDUIT.



POLE SCHEDULE

POLE	SIGNAL STANDARD TYPE	SIG. M.A.	LUM. M.A.	POLE HT.	*F DIST.	LUMINAIRE LED (WATTS)***	I.I.S.N.S. LEGEND	VEHICLE SIGNAL MOUNTING M.A. (END)	M.A. (*F DIST.)	POLE	PED. SIG. MOUNTING (POLE)	PED. PUSH BUTTON PLACEMENT PHASE	QUAD.	ARROW	STATION	OFFSET	REMARKS
A	19–2–80(E)	30'	15'	30'	–	200 W HPSV(E)	CHURCH AVE (E)	MAS	MAS	SV–1–T	SP–1–T	Ø4	E	←	–	–	PROTECT IN PLACE; INSTALL R3–18
B	1–A (E)	–	–	10'	–	–	–	–	–	TV–1–T	SP–1–T	Ø6	S	→	–	–	PROTECT IN PLACE
C	PPB (E)	–	–	4'–7"	–	–	–	–	–	–	–	Ø6	S	←	–	–	PROTECT IN PLACE
D	15 (E)	–	–	–	–	200 W HPSV (E)	–	–	–	SV–2–TA	SP–1–T	–	–	–	–	–	PROTECT IN PLACE
E	61–5–100	60'	15'	30'	16'	71 W	CHURCH AVE (R)	MAS	MAS	SV–2–TA	–	–	–	–	86+45.00 5TH ST	56.70'	SEE SIGNAL EQUIPMENT RELOCATION GUIDE
F	19–2–100	25'	15'	30'	–	71 W	FIFTH ST (R)	MAS	–	SV–2–TA	SP–1–T	Ø4	W	←	85+74.17 5TH ST	41.71'	SEE SIGNAL EQUIPMENT RELOCATION GUIDE
G	1–A	–	–	7'	–	–	–	–	–	–	SP–1–T	Ø8	W	→	114+72.00 3RD ST	54.00'	INSTALL R10–3 & R10–6(L)
H	15TS (MOD)	–	2–12'	30'	–	2–71 W	–	–	–	SV–1–T	SP–1–T	Ø8	W	←	114+76.95 3RD ST	8.50'	INSTALL R10–3 & R10–6(R); SEE NOTE 2

SIGNAL PHASE DIAGRAM



ABBREVIATIONS: DIST.=DISTANCE; HT.=HEIGHT; LUM.=LUMINAIRE; M.A.=MAST ARM; PED.=PEDESTRIAN; QUAD.=QUADRANT; SIG.=SIGNAL; HPSV= HIGH PRESSURE SODIUM VAPOR; PPB=PEDESTRIAN PUSH BUTTON
*REFER TO CALTRANS STANDARD PLANS; ***ALL LUMINAIRE SHALL BE GE EVOLVE "ERL1–0–08–C3–30–A–GREY", UNLESS NOTED OTHERWISE.

NOTES:
1. ALL POLES, HEADS, LUMINAIRE, AND OTHER EQUIPMENT ARE NEW, UNLESS OTHERWISE LABELED WITH (E) OR INDICATED IN THE SIGNAL EQUIPMENT RELOCATION GUIDE.
   - (E) INDICATES EXISTING POLES AND EQUIPMENT TO BE PROTECTED IN PLACE
   - (R) INDICATES RELOCATE EXISTING EQUIPMENT
   - (MOD) INDICATES MODIFIED SIGNAL AND LIGHTING STANDARD
   - I.I.S.N.S. INTERNALLY ILLUMINATED STREET NAME SIGN
2. FOR DOUBLE LUMINAIRE MAST ARM MOUNTING, SEE DETAIL C ON CALTRANS STANDARD PLANS ES–6D.

SIGN LEGEND AND SIGNAL DETAILS; SEE SHEET TS-3A

QUANTITY FOR SIGNAL STANDARD REMOVAL	
26–4–80	1
19–2–80	1

SIGNAL EQUIPMENT RELOCATION GUIDE

EXISTING SIGNAL EQUIPMENT LOCATION AND RELOCATION:

SOUTHEAST CORNER
- (1) EVP DETECTION DEVICE (POINTED WEST) – FOR REUSE ON THIS PROJECT
- (1) DETECTION CAMERA (POINTED WEST) – FOR REUSE ON THIS PROJECT
- (2) SPEED ENFORCEMENT DETECTION SYSTEM – 2 PIECES – FOR REUSE ON THIS PROJECT
- (1) STREET NAME SIGN – FOR REUSE ON THIS PROJECT
- (1) R9–3 AND R9–3bP(R) SIGNS – FOR REUSE ON THIS PROJECT

SOUTHWEST CORNER
- (1) EVP DETECTION DEVICE (POINTED NORTH) – FOR REUSE ON THIS PROJECT
- (1) DETECTION CAMERA (POINTED NORTH) – FOR REUSE ON THIS PROJECT
- (1) STREET NAME SIGN – FOR REUSE ON THIS PROJECT

REUSED EQUIPMENT SHALL BE PLACED ON A RELATIVE POLE STANDARD MAST ARM OR POLE STANDARD AS ORIGINALLY FOUND.

OTHER EQUIPMENT SUCH AS EXISTING TRAFFIC SIGNAL POLES STANDARDS, VEHICLE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, SIGNAL MAST ARMS, SIGNAL LUMINAIRE ARMS, SIGNAL LUMINAIRES AND PEDESTRIAN PUSH BUTTONS LISTED ON ABOVE LOCATIONS ARE TO BE REMOVED AND SALVAGED AT THE CITY YARD.

CONSTRUCTION NOTES

- 3 FURNISH AND INSTALL SIGN ON SIGNAL MAST ARM.
- 4 REINSTALL EQUIPMENT AS LISTED; SEE SIGNAL EQUIPMENT RELOCATION GUIDE FOR ADDITIONAL INFORMATION; COORDINATION WITH SHERIFF'S DEPARTMENT REQUIRED FOR SPEED ENFORCEMENT SYSTEM.
- 10 FURNISH AND INSTALL SIGN ON POLE OR POST.
- 12 ABANDON IF APPLIED TO CONDUIT; REMOVE CONDUCTORS.
- 14 REMOVE AND SALVAGE EXISTING SIGNAL STANDARD COMPLETE. REMOVE EXISTING FOUNDATION.
- 15 FURNISH AND INSTALL NEW PULLBOX.
- 16 REMOVE AND DISPOSE EXISTING PULLBOX.

LEGEND

- B — BICYCLE VIDEO DETECTION ZONE; 4'X6'
- SIZE — VEHICLE VIDEO DETECTION ZONE; SIZE AS NOTED
- SIZE — FURNISH AND INSTALL PULL BOX; SIZE IS NO. 5 UNLESS NOTED OTHERWISE
- EXISTING CONTROLLER CABINET
- EXISTING SIGNAL CONDUIT
- PROPOSED SIGNAL CONDUIT
- EXISTING SIGNAL INTERCONNECT
- EXISTING SIGNAL INTERCONNECT
- EXISTING SIGN – MOUNTED ON POLE
- PROPOSED SIGN – MOUNTED ON POLE

DIG ALERT
CALL BEFORE YOU DIG
811

BENCHMARK
THE ELEVATIONS FOR THIS SURVEY ARE BASED ON THE CITY OF HIGHLAND BENCHMARK #0001, BEING A CHISELED BOX AT THE EAST END OF THE NORTHEAST CURB RETURN AT 5TH STREET AND CHURCH AVENUE.
ELEVATION (NGVD29) = 1,213.30'

BASIS OF BEARING
THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE V, NAD83 (2017.50 EPOCH) AT CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) "P612", "RTHS" AND "CRFP" AS DERIVED FROM COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) COMPUTED ON 11/11/2017.

SEAL
REGISTERED PROFESSIONAL ENGINEER — ANNE M. HERNANDEZ — No. 42245 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
DATE: 03 / 02 / 2022

PLANS PREPARED BY:
Hernandez, Kroone & Associates
Engineers & Land Surveyors
HQ: 234 East Drake Drive, San Bernardino, CA 92408
PHONE: 909-884-3222 ▲ info@hkagroup.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE
0	BID SET	AH	03/02/22

CITY OF HIGHLAND

RECOMMENDED BY
ROBERT DOSS DATE
R.C.E. 31236 EXP. 9–30–22

APPROVED BY
CARLOS ZAMANO, CITY ENGINEER DATE
R.C.E. 60153 EXP. 6–30–22

3RD STREET / 5TH STREET CORRIDORS IMPROVEMENT PROJECT NO. STR18001

SIGNAL MODIFICATION PLANS
5TH STREET AND CHURCH AVENUE

DRAWING NO. TS-2
SHEET 74 OF 92

Path: L:\2018\18-1037 HIGHLAND – 3RD & 5TH STREET CORRIDOR IMPROVEMENT\DWG\TSP\18037-SHT-TSP02-5THCHURCH – 5TH ST AND CHURCH AVE.DWG
Plot Date: Mar. 2, 22 3:49 PM

CONDUCTOR SCHEDULE

AWG SIZE, WIRE OR CABLE TYPE	POLE	PHASE OR PURPOSE	CONDUIT SIZE AND RUN NUMBER 1	2	3	4	5	6	7	8	9	10
12 WIRE CONDUCTOR CABLE 11–#14 1–#12	A	Ø1,Ø6,Ø6P /Ø4PPB						1/1	1/1		1/1	1/1
	B	Ø3,Ø4P,Ø4+OLB /Ø6PPB							2/1		2/1	2/1
	C	Ø3,Ø8,Ø8+OLA,Ø8P /Ø6PPB									2/1	2/1
	D	Ø5,Ø6,Ø6P /Ø8PPB								1/1	1/1	1/1
	E	Ø2,Ø5,Ø2P /Ø8PPB	1/1							1/1	1/1	1/1
	F	Ø7,Ø8+OLA,Ø8P /Ø2PPB	2/1	2/1						2/1	2/1	2/1
3 WIRE CONDUCTOR CABLE	G	Ø4,Ø7,Ø4+OLB,Ø4P /Ø2PPB				2/1	2/1	2/1	2/1		2/1	2/1
	H	Ø1,Ø2,Ø2P /Ø4PPB					1/1	1/1	1/1		1/1	1/1
TOTAL OF CONDUCTOR SIGNAL CABLES			3/2	2/1	0/0	2/1	3/2	4/3	6/4	4/3	12/8	12/8
#6	SIGNAL SERVICE											
#10	LUMINAIRE		2			2	2	2	2	2	2	
#12	IISNS		2			2	2	2	2	2	2	
OPTICOM CABLE #138	EVP		1			1	1	2	2	1	4	4
3–#16	VIDEO POWER CABLE		1			1	1	2	2	1	4	4
BELDON #8281 COAX	VIDEO CABLE		1			1	1	2	2	1	4	4
96–SMFO	SIGNAL INTERCONNECT								1		1	1
PULL ROPE	FOR FUTURE USE				1							
PERCENT FILL			17%	16%	6%	21%	17%	24%	17%	22%	22%	22%
CONDUIT SIZES (INCHES)			1–4"	1–3"	1–2"	1–3"	1–4"	1–4"	2–4"	1–4"	3–4"	3–4"

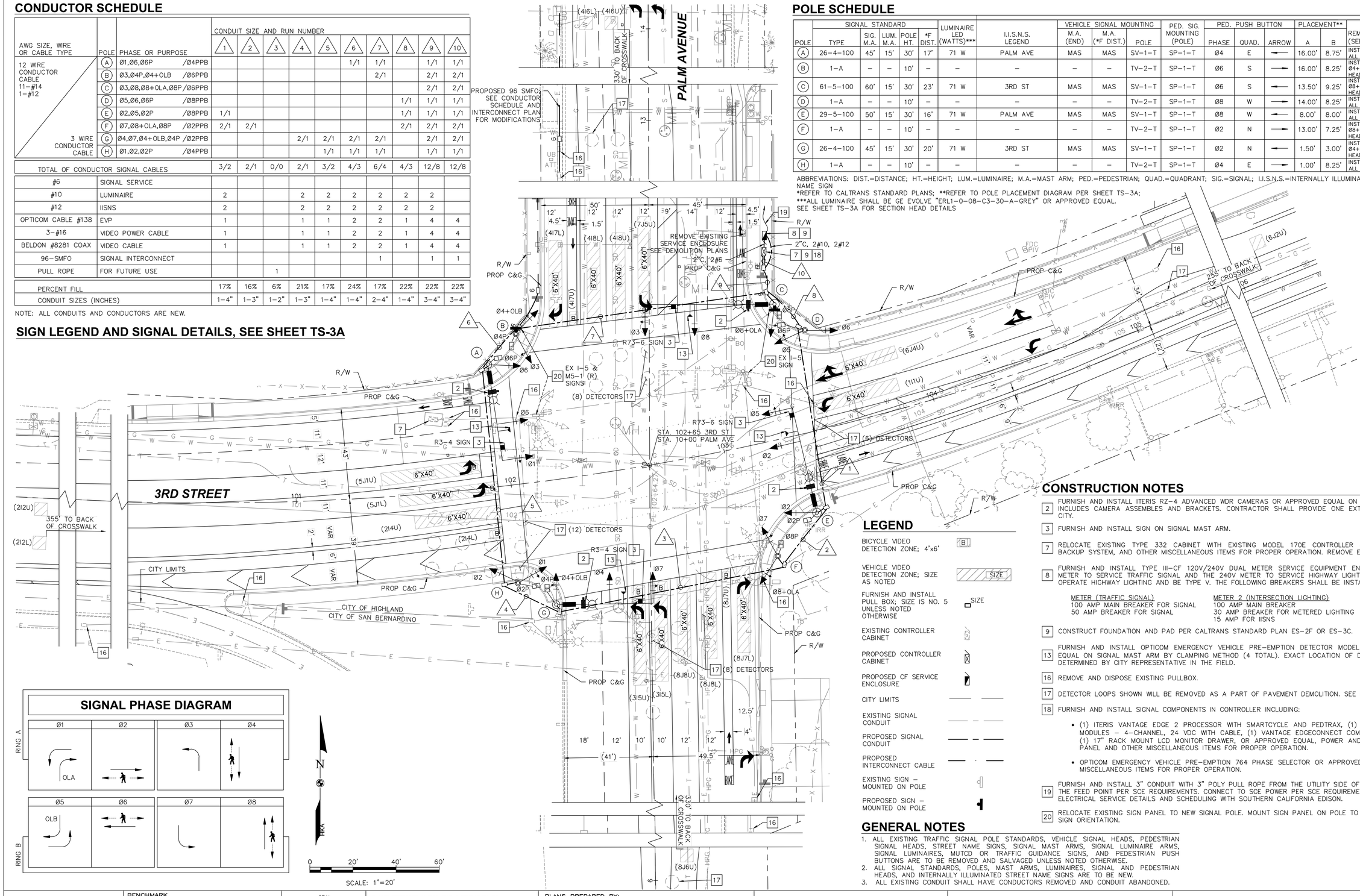
NOTE: ALL CONDUITS AND CONDUCTORS ARE NEW.

SIGN LEGEND AND SIGNAL DETAILS, SEE SHEET TS-3A

POLE SCHEDULE

POLE	SIGNAL STANDARD TYPE	SIG. M.A.	LUM. M.A.	POLE HT.	*F DIST.	LUMINAIRE LED (WATTS)***	I.I.S.N.S. LEGEND	VEHICLE SIGNAL MOUNTING M.A. (END)	M.A. (*F DIST.)	POLE	PED. SIG. MOUNTING (POLE)	PED. PUSH BUTTON PHASE	QUAD.	ARROW	PLACEMENT** A	B	REMARKS (SEE SHEET TS-3A)
A	26-4-100	45'	15'	30'	17'	71 W	PALM AVE	MAS	MAS	SV-1-T	SP-1-T	Ø4	E	←	16.00'	8.75'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø1
B	1-A	–	–	10'	–	–	–	–	–	TV-2-T	SP-1-T	Ø6	S	→	16.00'	8.25'	INSTALL 5-SECTION HEAD FOR Ø4+OLB; INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø3
C	61-5-100	60'	15'	30'	23'	71 W	3RD ST	MAS	MAS	SV-1-T	SP-1-T	Ø6	S	←	13.50'	9.25'	INSTALL 5-SECTION HEAD FOR Ø8+OLA; INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø3
D	1-A	–	–	10'	–	–	–	–	–	TV-2-T	SP-1-T	Ø8	W	→	14.00'	8.25'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø5
E	29-5-100	50'	15'	30'	16'	71 W	PALM AVE	MAS	MAS	SV-1-T	SP-1-T	Ø8	W	←	8.00'	8.00'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø5
F	1-A	–	–	10'	–	–	–	–	–	TV-2-T	SP-1-T	Ø2	N	→	13.00'	7.25'	INSTALL 5-SECTION HEAD FOR Ø8+OLA; INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø7
G	26-4-100	45'	15'	30'	20'	71 W	3RD ST	MAS	MAS	SV-1-T	SP-1-T	Ø2	N	←	1.50'	3.00'	INSTALL 5-SECTION HEAD FOR Ø4+OLB; INSTALL 3-SECTION HEAD ALL ARROWS (L) Ø7
H	1-A	–	–	10'	–	–	–	–	–	TV-2-T	SP-1-T	Ø4	E	→	1.00'	8.25'	INSTALL 3-SECTION HEAD ALL ARROWS (L) FOR Ø1

ABBREVIATIONS: DIST.=DISTANCE; HT.=HEIGHT; LUM.=LUMINAIRE; M.A.=MAST ARM; PED.=PEDESTRIAN; QUAD.=QUADRANT; SIG.=SIGNAL; I.I.S.N.S.=INTERNALLY ILLUMINATED STREET NAME SIGN
*REFER TO CALTRANS STANDARD PLANS; **REFER TO POLE PLACEMENT DIAGRAM PER SHEET TS-3A;
***ALL LUMINAIRE SHALL BE GE EVOLVE "ERL1-0-08-C3-30-A-GREY" OR APPROVED EQUAL.
SEE SHEET TS-3A FOR SECTION HEAD DETAILS



SIGNAL PHASE DIAGRAM

LEGEND

- BICYCLE VIDEO DETECTION ZONE; 4'x6' — B
- VEHICLE VIDEO DETECTION ZONE; SIZE AS NOTED — SIZE
- FURNISH AND INSTALL PULL BOX; SIZE IS NO. 5 UNLESS NOTED OTHERWISE — SIZE
- EXISTING CONTROLLER CABINET
- PROPOSED CONTROLLER CABINET
- PROPOSED CF SERVICE ENCLOSURE
- CITY LIMITS
- EXISTING SIGNAL CONDUIT
- PROPOSED SIGNAL CONDUIT
- PROPOSED INTERCONNECT CABLE
- EXISTING SIGN – MOUNTED ON POLE
- PROPOSED SIGN – MOUNTED ON POLE

CONSTRUCTION NOTES

2 FURNISH AND INSTALL ITERIS RZ-4 ADVANCED WDR CAMERAS OR APPROVED EQUAL ON LMINAIRE MAST ARM, INCLUDES CAMERA ASSEMBLES AND BRACKETS. CONTRACTOR SHALL PROVIDE ONE EXTRA CAMERA TO THE CITY.

3 FURNISH AND INSTALL SIGN ON SIGNAL MAST ARM.

7 RELOCATE EXISTING TYPE 332 CABINET WITH EXISTING MODEL 170E CONTROLLER ASSEMBLY, BATTERY BACKUP SYSTEM, AND OTHER MISCELLANEOUS ITEMS FOR PROPER OPERATION. REMOVE EXISTING FOUNDATION.

8 FURNISH AND INSTALL TYPE III-CF 120V/240V DUAL METER SERVICE EQUIPMENT ENCLOSURE. THE 120V METER TO SERVICE TRAFFIC SIGNAL AND THE 240V METER TO SERVICE HIGHWAY LIGHTING. THE PEU SHALL OPERATE HIGHWAY LIGHTING AND BE TYPE V. THE FOLLOWING BREAKERS SHALL BE INSTALLED:

METER (TRAFFIC SIGNAL)	METER 2 (INTERSECTION LIGHTING)
100 AMP MAIN BREAKER FOR SIGNAL	100 AMP MAIN BREAKER
50 AMP BREAKER FOR SIGNAL	30 AMP BREAKER FOR METERED LIGHTING
	15 AMP FOR IISNS

9 CONSTRUCT FOUNDATION AND PAD PER CALTRANS STANDARD PLAN ES-2F OR ES-3C.

13 FURNISH AND INSTALL OPTICOM EMERGENCY VEHICLE PRE-EMPTION DETECTOR MODEL 722 OR APPROVED EQUAL ON SIGNAL MAST ARM BY CLAMPING METHOD (4 TOTAL). EXACT LOCATION OF DETECTORS SHALL BE DETERMINED BY CITY REPRESENTATIVE IN THE FIELD.

16 REMOVE AND DISPOSE EXISTING PULLBOX.

17 DETECTOR LOOPS SHOWN WILL BE REMOVED AS A PART OF PAVEMENT DEMOLITION. SEE DEMO PLANS.

18 FURNISH AND INSTALL SIGNAL COMPONENTS IN CONTROLLER INCLUDING:

- (1) ITERIS VANTAGE EDGE 2 PROCESSOR WITH SMARTCYCLE AND PEDTRAX, (1) VANTAGE EXTENSION MODULES – 4-CHANNEL, 24 VDC WITH CABLE, (1) VANTAGE EDGECONNECT COMMUNICATION MODULE, (1) 17" RACK MOUNT LCD MONITOR DRAWER, OR APPROVED EQUAL, POWER AND SURGE PROTECTION PANEL AND OTHER MISCELLANEOUS ITEMS FOR PROPER OPERATION.
- OPTICOM EMERGENCY VEHICLE PRE-EMPTION 764 PHASE SELECTOR OR APPROVED EQUAL AND OTHER MISCELLANEOUS ITEMS FOR PROPER OPERATION.

19 FURNISH AND INSTALL 3" CONDUIT WITH 3" POLY PULL ROPE FROM THE UTILITY SIDE OF THE PEDESTAL TO THE FEED POINT PER SCE REQUIREMENTS. CONNECT TO SCE POWER PER SCE REQUIREMENTS. COORDINATE ELECTRICAL SERVICE DETAILS AND SCHEDULING WITH SOUTHERN CALIFORNIA EDISON.

20 RELOCATE EXISTING SIGN PANEL TO NEW SIGNAL POLE. MOUNT SIGN PANEL ON POLE TO MATCH EXISTING SIGN ORIENTATION.

GENERAL NOTES

1. ALL EXISTING TRAFFIC SIGNAL POLE STANDARDS, VEHICLE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, STREET NAME SIGNS, SIGNAL MAST ARMS, SIGNAL LUMINAIRE ARMS, SIGNAL LUMINAIRES, MUTCD OR TRAFFIC GUIDANCE SIGNS, AND PEDESTRIAN PUSH BUTTONS ARE TO BE REMOVED AND SALVAGED UNLESS NOTED OTHERWISE.
2. ALL SIGNAL STANDARDS, POLES, MAST ARMS, LUMINAIRES, SIGNAL AND PEDESTRIAN HEADS, AND INTERNALLY ILLUMINATED STREET NAME SIGNS ARE TO BE NEW.
3. ALL EXISTING CONDUIT SHALL HAVE CONDUCTORS REMOVED AND CONDUIT ABANDONED.

DIG ALERT
CALL BEFORE YOU DIG
811

BENCHMARK
THE ELEVATIONS FOR THIS SURVEY ARE BASED ON THE CITY OF HIGHLAND BENCHMARK #0001, BEING A CHISELED BOX AT THE EAST END OF THE NORTHEAST CURB RETURN AT 5TH STREET AND CHURCH AVENUE.
ELEVATION (NGVD29) = 1,213.30'

BASIS OF BEARING
THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE V, NAD83 (2017.50 EPOCH) AT CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) "P612", "RTHS" AND "CRFP" AS DERIVED FROM COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) COMPUTED ON 11/11/2017.

SEAL
REGISTERED PROFESSIONAL ENGINEER — ANNE M. HERNANDEZ — No. 42265 — CIVIL — STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
DATE: 03 / 02 / 2022

PLANS PREPARED BY:
Hernandez, Kroone & Associates
Engineers & Land Surveyors
HQ: 234 East Drake Drive, San Bernardino, CA 92408
PHONE: 909-884-3222 ▲ info@hkagroup.com

REVISIONS

MARK	DESCRIPTION	APPR.	DATE
0	BID SET	AH	03/02/22

CITY OF HIGHLAND

RECOMMENDED BY
ROBERT DOSS DATE
R.C.E. 31236 EXP. 9-30-22

APPROVED BY
CARLOS ZAMANO, CITY ENGINEER DATE
R.C.E. 60153 EXP. 6-30-22

3RD STREET / 5TH STREET CORRIDORS IMPROVEMENT PROJECT NO. STR18001

SIGNAL MODIFICATION PLANS
3RD STREET AND PALM AVENUE

DRAWING NO. TS-3
SHEET 75 OF 92

Path: J:\2018\18-1037 HIGHLAND – 3RD & 5TH STREET CORRIDOR IMPROVEMENT\DWG\TSP\18037-SHT-TSP03-3RDPALM – 3RD ST AND PALM AVE.DWG
Plot Date: Mar. 2, 22 3:22 PM

APPENDIX C

TRAFFIC COUNT DATA SHEETS

National Data & Surveying Services

Intersection Turning Movement Count

Location: Palm Ave & Meines St
City: Highland
Control: 1-Way Stop(EB)

Project ID: 23-030015-001
Date: 2/14/2023

Data - Total

NS/EW Streets:	Palm Ave				Palm Ave				Meines St				Meines St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	0	2	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	1	41	0	0	0	84	1	0	1	0	2	0	0	0	0	0	130
7:15 AM	0	30	0	0	0	121	1	0	0	0	0	0	0	0	0	0	152
7:30 AM	3	53	0	0	0	137	1	0	0	0	1	0	0	0	0	0	195
7:45 AM	2	59	0	0	0	193	3	0	0	0	3	0	0	0	0	0	260
8:00 AM	3	77	0	0	0	123	1	0	3	0	2	0	0	0	0	0	209
8:15 AM	0	72	0	0	0	127	3	0	0	0	1	0	0	0	0	0	203
8:30 AM	6	85	0	0	0	82	3	0	1	0	5	0	0	0	0	0	182
8:45 AM	3	81	0	0	0	86	2	0	4	0	5	0	0	0	0	0	181
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	18	498	0	0	0	953	15	0	9	0	19	0	0	0	0	0	1512
APPROACH %'s :	3.49%	96.51%	0.00%	0.00%	0.00%	98.45%	1.55%	0.00%	32.14%	0.00%	67.86%	0.00%					
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	8	261	0	0	0	580	8	0	3	0	7	0	0	0	0	0	867
PEAK HR FACTOR :	0.667	0.847	0.000	0.000	0.000	0.751	0.667	0.000	0.250	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.834
	0.841				0.750				0.500								

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	0	2	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	2	147	0	0	0	101	2	0	2	0	5	0	0	0	0	0	259
4:15 PM	1	170	0	0	0	96	1	0	2	0	3	0	0	0	0	0	273
4:30 PM	1	161	0	0	0	128	3	0	3	0	10	0	0	0	0	0	306
4:45 PM	4	150	0	0	0	120	4	0	3	0	2	0	0	0	0	0	283
5:00 PM	2	172	0	0	0	101	2	0	3	0	3	0	0	0	0	0	283
5:15 PM	0	171	0	1	0	111	1	0	3	0	1	0	0	0	0	0	288
5:30 PM	0	152	0	0	0	105	1	0	5	0	3	0	0	0	0	0	266
5:45 PM	1	151	0	1	0	89	0	0	2	0	2	0	0	0	0	0	246
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	11	1274	0	2	0	851	14	0	23	0	29	0	0	0	0	0	2204
APPROACH %'s :	0.85%	98.99%	0.00%	0.16%	0.00%	98.38%	1.62%	0.00%	44.23%	0.00%	55.77%	0.00%					
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	7	654	0	1	0	460	10	0	12	0	16	0	0	0	0	0	1160
PEAK HR FACTOR :	0.438	0.951	0.000	0.250	0.000	0.898	0.625	0.000	1.000	0.000	0.400	0.000	0.000	0.000	0.000	0.000	0.948
	0.951				0.897				0.538								

Prepared by National Data & Surveying Services

Palm Ave & Meines St

Peak Hour Turning Movement Count

ID: 23-030015-001
City: Highland

Day: Tuesday
Date: 2/14/2023

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	7:00 AM - 09:00 AM
NONE	NONE
04:30 PM - 05:30 PM	4:00 PM - 06:00 PM

SOUTHBOUND (Palm Ave)

AM	8	580	0	0	264	AM
NOON	0	0	0	0	0	NOON
PM	10	460	0	0	666	PM

EASTBOUND (Meines St)

AM	NOON	PM	
16	0	17	
0	0	0	0
3	0	12	0
0	0	0	1
7	0	16	0

WESTBOUND (Meines St)

PM	NOON	AM	
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	

NORTHBOUND (Palm Ave)

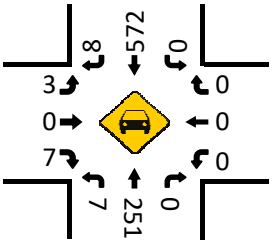
PM	477	1	7	654	0	PM
NOON	0	0	0	0	0	NOON
AM	587	0	8	261	0	AM

CONTROL

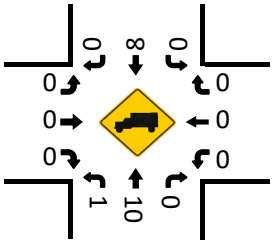
1-Way Stop(EB)

TEV	867 AM	0 NOON	1160 PM
PHF	0.83		0.95

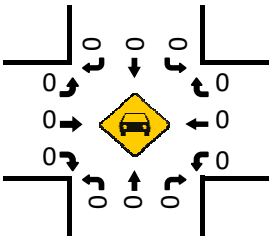
Cars (AM)



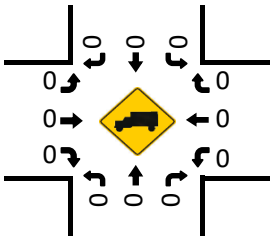
HT (AM)



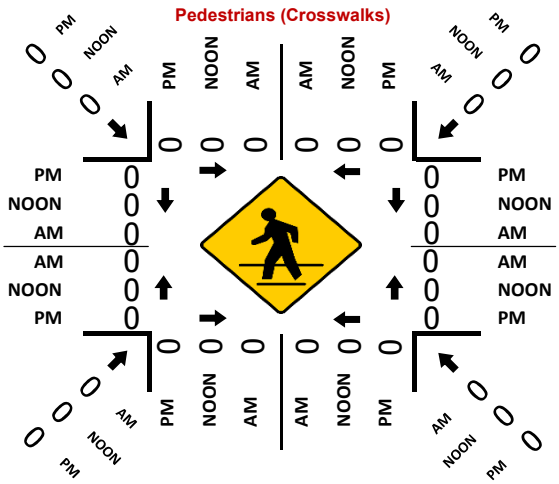
Cars (NOON)



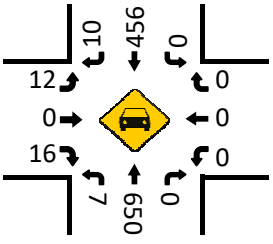
HT (NOON)



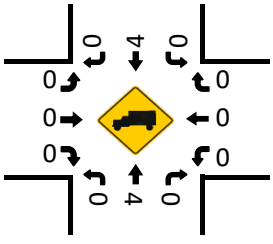
Pedestrians (Crosswalks)



Cars (PM)



HT (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Palm Ave & 5th st
City: Highland
Control: Signalized

Project ID: 23-030015-002
Date: 2/14/2023

Data - Total

NS/EW Streets:	Palm Ave				Palm Ave				5th st				5th st				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	3	28	15	0	27	51	15	0	1	51	2	0	37	107	13	0	350
7:15 AM	9	20	31	0	27	81	13	0	4	38	5	0	49	109	11	0	397
7:30 AM	6	29	28	0	36	90	12	0	4	48	4	0	67	110	19	0	453
7:45 AM	7	36	26	0	28	138	23	0	5	42	17	0	59	139	20	0	540
8:00 AM	11	51	27	0	27	92	13	0	7	54	7	0	72	124	21	0	506
8:15 AM	14	53	33	0	29	86	9	0	4	38	3	0	46	78	15	0	408
8:30 AM	12	75	44	0	26	56	9	0	4	47	9	0	33	67	16	0	398
8:45 AM	16	61	33	0	30	45	13	0	4	49	11	0	26	63	15	0	366
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	78	353	237	0	230	639	107	0	33	367	58	0	389	797	130	0	3418
APPROACH %'s :	11.68%	52.84%	35.48%	0.00%	23.57%	65.47%	10.96%	0.00%	7.21%	80.13%	12.66%	0.00%	29.56%	60.56%	9.88%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	38	169	114	0	120	406	57	0	20	182	31	0	244	451	75	0	1907
PEAK HR FACTOR :	0.679	0.797	0.864	0.000	0.833	0.736	0.620	0.000	0.714	0.843	0.456	0.000	0.847	0.811	0.893	0.000	0.883
	0.803				0.771				0.857				0.883				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	12	110	85	0	30	65	5	0	13	107	16	0	61	84	27	0	615
4:15 PM	16	118	63	0	27	64	6	0	19	128	15	0	59	66	33	0	614
4:30 PM	18	105	63	0	47	89	10	0	17	126	21	0	63	70	40	0	669
4:45 PM	9	115	102	0	37	75	10	0	16	120	10	0	56	73	29	0	652
5:00 PM	10	122	87	0	30	62	8	0	15	121	6	0	54	84	32	0	631
5:15 PM	9	118	75	0	37	76	4	0	22	132	6	0	50	58	31	0	618
5:30 PM	23	109	69	0	27	69	4	0	15	106	10	0	38	55	32	0	557
5:45 PM	16	102	70	0	40	53	7	0	16	72	11	0	29	56	31	0	503
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	113	899	614	0	275	553	54	0	133	912	95	0	410	546	255	0	4859
APPROACH %'s :	6.95%	55.29%	37.76%	0.00%	31.18%	62.70%	6.12%	0.00%	11.67%	80.00%	8.33%	0.00%	33.86%	45.09%	21.06%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	46	460	327	0	151	302	32	0	70	499	43	0	223	285	132	0	2570
PEAK HR FACTOR :	0.639	0.943	0.801	0.000	0.803	0.848	0.800	0.000	0.795	0.945	0.512	0.000	0.885	0.848	0.825	0.000	0.960
	0.921				0.830				0.933				0.925				

Prepared by National Data & Surveying Services

Palm Ave & 5th st

Peak Hour Turning Movement Count

ID: 23-030015-002
City: Highland

Day: Tuesday
Date: 2/14/2023

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	7:00 AM - 09:00 AM
NONE	NONE
04:30 PM - 05:30 PM	4:00 PM - 06:00 PM

SOUTHBOUND (Palm Ave)

AM	57	406	120	0	264	AM
NOON	0	0	0	0	0	NOON
PM	32	302	151	0	662	PM
	0	2	1	0		

EASTBOUND (5th st)

AM	NOON	PM	
546	0	363	
0	0	0	0
20	0	70	1
182	0	499	2
31	0	43	0
AM	NOON	PM	

WESTBOUND (5th st)

PM	NOON	AM	
132	0	75	0
285	0	451	2
223	0	244	1
0	0	0	0
977	0	416	
PM	NOON	AM	

NORTHBOUND (Palm Ave)

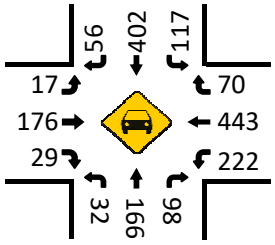
PM	568	0	46	460	327	PM
NOON	0	0	0	0	0	NOON
AM	681	0	38	169	114	AM
		0	1	2	0	

CONTROL

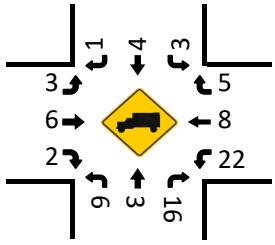
Signalized

TEV	1907 AM	0 NOON	2570 PM
PHF	0.88		0.96

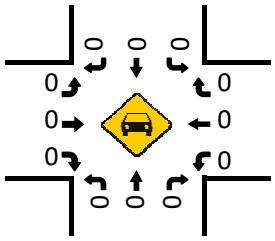
Cars (AM)



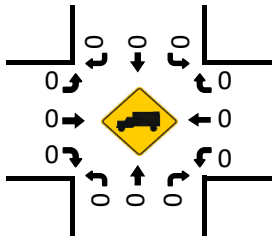
HT (AM)



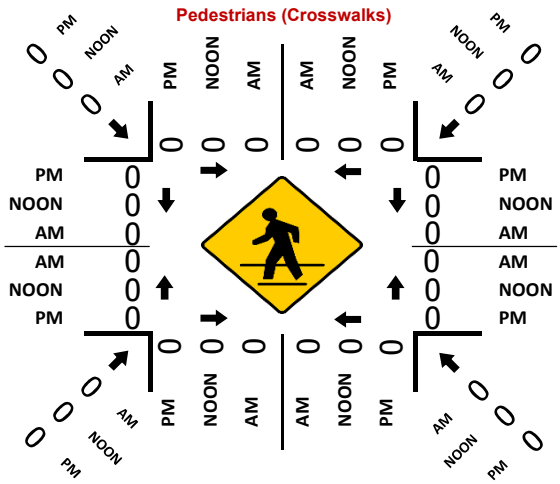
Cars (NOON)



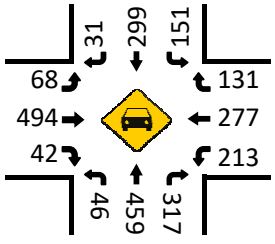
HT (NOON)



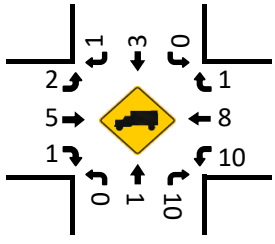
Pedestrians (Crosswalks)



Cars (PM)



HT (PM)



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City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	20	20	0	40	24	27	12	63	5	17	22	44	0	26	3	29	176
06:15 AM	18	22	3	43	24	50	14	88	1	8	23	32	2	34	5	41	204
06:30 AM	22	43	3	68	33	63	12	108	2	19	22	43	1	27	9	37	256
06:45 AM	31	58	3	92	49	105	13	167	4	9	22	35	0	44	5	49	343
Total	91	143	9	243	130	245	51	426	12	53	89	154	3	131	22	156	979
07:00 AM	42	71	6	119	54	124	15	193	7	18	34	59	0	45	6	51	422
07:15 AM	40	90	14	144	65	154	18	237	9	33	32	74	1	36	6	43	498
07:30 AM	42	115	11	168	63	140	25	228	8	27	28	63	1	37	12	50	509
07:45 AM	30	179	23	232	78	161	19	258	6	29	34	69	1	59	13	73	632
Total	154	455	54	663	260	579	77	916	30	107	128	265	3	177	37	217	2061
08:00 AM	32	140	19	191	94	138	23	255	6	42	46	94	1	47	18	66	606
08:15 AM	17	135	18	170	72	122	22	216	9	49	44	102	6	53	15	74	562
08:30 AM	53	87	12	152	56	84	29	169	9	68	47	124	2	49	10	61	506
08:45 AM	28	63	9	100	68	76	27	171	4	38	40	82	4	46	18	68	421
Total	130	425	58	613	290	420	101	811	28	197	177	402	13	195	61	269	2095
Grand Total	375	1023	121	1519	680	1244	229	2153	70	357	394	821	19	503	120	642	5135
Apprch %	24.7	67.3	8		31.6	57.8	10.6		8.5	43.5	48		3	78.3	18.7		
Total %	7.3	19.9	2.4	29.6	13.2	24.2	4.5	41.9	1.4	7	7.7	16	0.4	9.8	2.3	12.5	
Passenger Vehicles	359	1002	114	1475	601	1224	226	2051	63	346	225	634	13	477	117	607	4767
% Passenger Vehicles	95.7	97.9	94.2	97.1	88.4	98.4	98.7	95.3	90	96.9	57.1	77.2	68.4	94.8	97.5	94.5	92.8
Large 2 Axle Vehicles	13	17	7	37	11	10	2	23	5	10	22	37	6	14	1	21	118
% Large 2 Axle Vehicles	3.5	1.7	5.8	2.4	1.6	0.8	0.9	1.1	7.1	2.8	5.6	4.5	31.6	2.8	0.8	3.3	2.3
3 Axle Vehicles	0	2	0	2	24	3	1	28	2	1	84	87	0	5	1	6	123
% 3 Axle Vehicles	0	0.2	0	0.1	3.5	0.2	0.4	1.3	2.9	0.3	21.3	10.6	0	1	0.8	0.9	2.4
4+ Axle Trucks	3	2	0	5	44	7	0	51	0	0	63	63	0	7	1	8	127
% 4+ Axle Trucks	0.8	0.2	0	0.3	6.5	0.6	0	2.4	0	0	16	7.7	0	1.4	0.8	1.2	2.5

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**42**	115	11	168	63	140	**25**	228	8	27	28	63	1	37	12	50	509
07:45 AM	30	**179**	**23**	**232**	78	**161**	19	**258**	6	29	34	69	1	**59**	13	73	**632**
08:00 AM	32	140	19	191	**94**	138	23	255	6	42	**46**	94	1	47	**18**	66	606
08:15 AM	17	135	18	170	72	122	22	216	**9**	**49**	44	**102**	**6**	53	15	**74**	562
Total Volume	121	569	71	761	307	561	89	957	29	147	152	328	9	196	58	263	2309
% App. Total	15.9	74.8	9.3		32.1	58.6	9.3		8.8	44.8	46.3		3.4	74.5	22.1		
PHF	.720	.795	.772	.820	.816	.871	.890	.927	.806	.750	.826	.804	.375	.831	.806	.889	.913

Counts Unlimited
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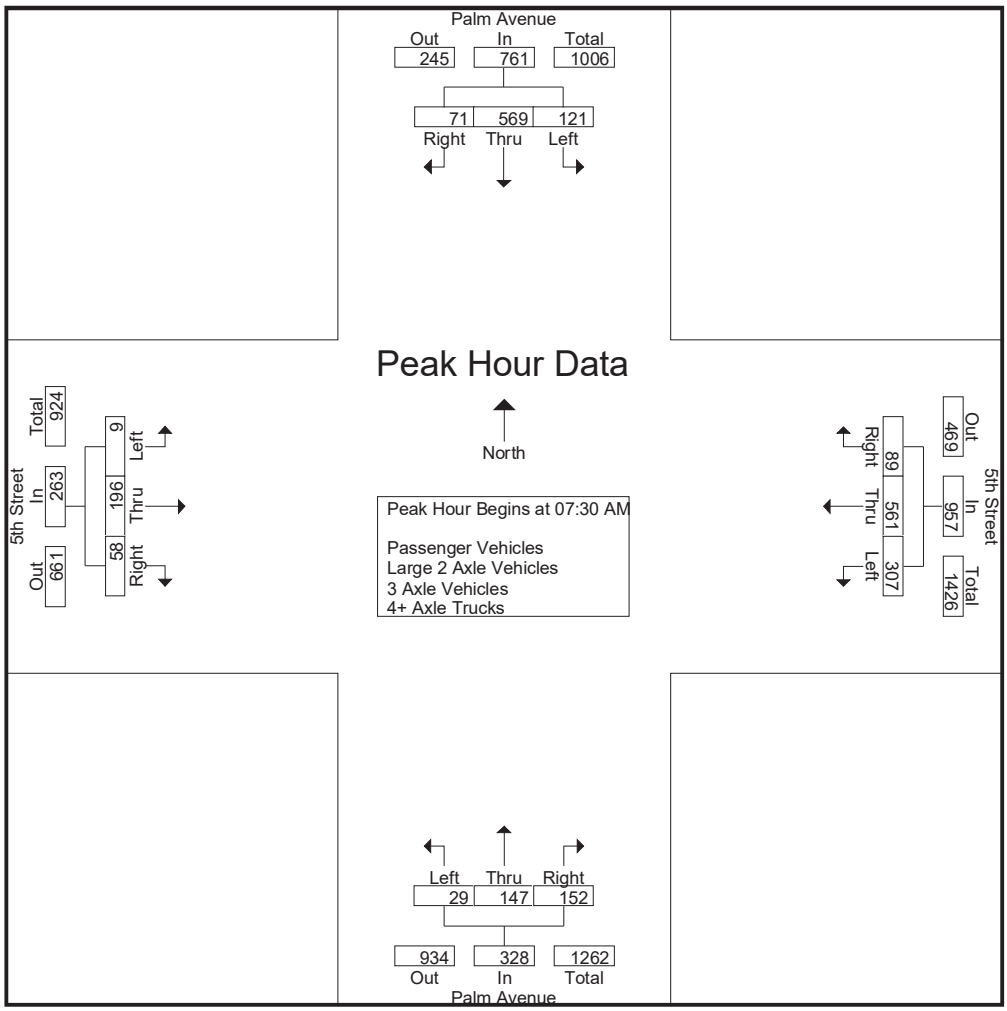
City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th AM
Site Code : 99918385
Start Date : 5/1/2018



Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:15 AM				08:00 AM				07:45 AM			
+0 mins.	**42**	115	11	168	65	154	18	237	6	42	46	94	1	**59**	13	73
+15 mins.	30	**179**	**23**	**232**	63	140	**25**	228	**9**	49	44	102	1	47	**18**	66
+30 mins.	32	140	19	191	78	**161**	19	**258**	9	**68**	**47**	**124**	**6**	53	15	**74**
+45 mins.	17	135	18	170	**94**	138	23	255	4	38	40	82	2	49	10	61
Total Volume	121	569	71	761	300	593	85	978	28	197	177	402	10	208	56	274
% App. Total	15.9	74.8	9.3		30.7	60.6	8.7		7	49	44		3.6	75.9	20.4	
PHF	.720	.795	.772	.820	.798	.921	.850	.948	.778	.724	.941	.810	.417	.881	.778	.926

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City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	20	19	0	39	20	26	12	58	5	17	12	34	0	23	3	26	157
06:15 AM	16	22	3	41	21	49	14	84	1	8	11	20	1	33	5	39	184
06:30 AM	20	42	2	64	31	62	11	104	1	19	13	33	0	23	9	32	233
06:45 AM	29	57	3	89	43	102	13	158	4	7	12	23	0	41	5	46	316
Total	85	140	8	233	115	239	50	404	11	51	48	110	1	120	22	143	890
07:00 AM	42	71	5	118	47	122	15	184	6	16	21	43	0	43	6	49	394
07:15 AM	38	90	13	141	62	153	18	233	9	31	13	53	0	33	6	39	466
07:30 AM	41	112	10	163	55	140	25	220	7	27	12	46	1	36	12	49	478
07:45 AM	30	174	23	227	71	160	17	248	5	29	15	49	0	57	11	68	592
Total	151	447	51	649	235	575	75	885	27	103	61	191	1	169	35	205	1930
08:00 AM	29	139	19	187	90	136	23	249	6	41	28	75	1	46	17	64	575
08:15 AM	17	131	17	165	62	120	22	204	7	47	31	85	5	52	15	72	526
08:30 AM	51	85	11	147	42	81	29	152	9	66	35	110	2	47	10	59	468
08:45 AM	26	60	8	94	57	73	27	157	3	38	22	63	3	43	18	64	378
Total	123	415	55	593	251	410	101	762	25	192	116	333	11	188	60	259	1947
Grand Total	359	1002	114	1475	601	1224	226	2051	63	346	225	634	13	477	117	607	4767
Apprch %	24.3	67.9	7.7		29.3	59.7	11		9.9	54.6	35.5		2.1	78.6	19.3		
Total %	7.5	21	2.4	30.9	12.6	25.7	4.7	43	1.3	7.3	4.7	13.3	0.3	10	2.5	12.7	

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**41**	112	10	163	55	140	**25**	220	**7**	27	12	46	1	36	12	49	478
07:45 AM	30	**174**	**23**	**227**	71	**160**	17	248	5	29	15	49	0	**57**	11	68	**592**
08:00 AM	29	139	19	187	**90**	136	23	**249**	6	41	28	75	1	46	**17**	64	575
08:15 AM	17	131	17	165	62	120	22	204	7	**47**	**31**	**85**	**5**	52	15	**72**	526
Total Volume	117	556	69	742	278	556	87	921	25	144	86	255	7	191	55	253	2171
% App. Total	15.8	74.9	9.3		30.2	60.4	9.4		9.8	56.5	33.7		2.8	75.5	21.7		
PHF	.713	.799	.750	.817	.772	.869	.870	.925	.893	.766	.694	.750	.350	.838	.809	.878	.917

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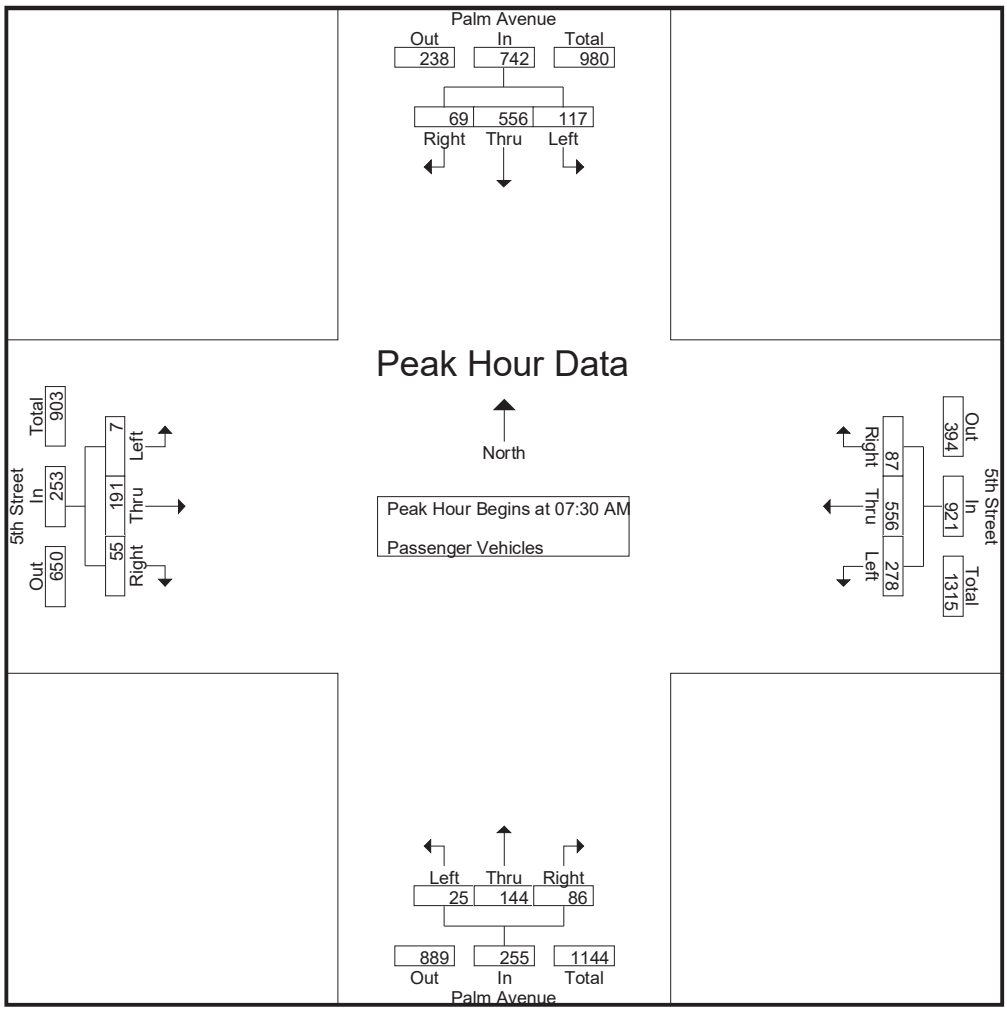
City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th AM
Site Code : 99918385
Start Date : 5/1/2018



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**41**	112	10	163	55	140	**25**	220	**7**	27	12	46	1	36	12	49
+15 mins.	30	**174**	**23**	**227**	71	**160**	17	248	5	29	15	49	0	**57**	11	68
+30 mins.	29	139	19	187	**90**	136	23	**249**	6	41	28	75	1	46	**17**	64
+45 mins.	17	131	17	165	62	120	22	204	7	**47**	**31**	**85**	**5**	52	15	**72**
Total Volume	117	556	69	742	278	556	87	921	25	144	86	255	7	191	55	253
% App. Total	15.8	74.9	9.3		30.2	60.4	9.4		9.8	56.5	33.7		2.8	75.5	21.7	
PHF	.713	.799	.750	.817	.772	.869	.870	.925	.893	.766	.694	.750	.350	.838	.809	.878

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N/S: Palm Avenue
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File Name : 77_HLD_Palm_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06:15 AM	2	0	0	2	0	1	0	1	0	0	1	1	1	1	0	2	6
06:30 AM	2	1	1	4	1	0	1	2	1	0	3	4	1	3	0	4	14
06:45 AM	0	1	0	1	1	0	0	1	0	2	3	5	0	3	0	3	10
Total	4	3	1	8	2	1	1	4	1	2	7	10	2	7	0	9	31
07:00 AM	0	0	1	1	3	2	0	5	0	2	0	2	0	1	0	1	9
07:15 AM	2	0	1	3	0	1	0	1	0	2	2	4	1	1	0	2	10
07:30 AM	1	3	1	5	0	0	0	0	1	0	1	2	0	0	0	0	7
07:45 AM	0	3	0	3	1	0	1	2	1	0	1	2	1	1	1	3	10
Total	3	6	3	12	4	3	1	8	2	4	4	10	2	3	1	6	36
08:00 AM	3	1	0	4	1	1	0	2	0	1	3	4	0	0	0	0	10
08:15 AM	0	3	1	4	2	2	0	4	2	2	3	7	1	1	0	2	17
08:30 AM	2	1	1	4	1	1	0	2	0	1	2	3	0	1	0	1	10
08:45 AM	1	3	1	5	1	2	0	3	0	0	3	3	1	2	0	3	14
Total	6	8	3	17	5	6	0	11	2	4	11	17	2	4	0	6	51
Grand Total	13	17	7	37	11	10	2	23	5	10	22	37	6	14	1	21	118
Apprch %	35.1	45.9	18.9		47.8	43.5	8.7		13.5	27	59.5		28.6	66.7	4.8		
Total %	11	14.4	5.9	31.4	9.3	8.5	1.7	19.5	4.2	8.5	18.6	31.4	5.1	11.9	0.8	17.8	

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	1	**3**	**1**	**5**	0	0	0	0	1	0	1	2	0	0	0	0	7
07:45 AM	0	3	0	3	1	0	**1**	2	1	0	1	2	**1**	**1**	**1**	**3**	10
08:00 AM	**3**	1	0	4	1	1	0	2	0	1	**3**	4	0	0	0	0	10
08:15 AM	0	3	1	4	**2**	**2**	0	**4**	**2**	**2**	3	**7**	1	1	0	2	**17**
Total Volume	4	10	2	16	4	3	1	8	4	3	8	15	2	2	1	5	44
% App. Total	25	62.5	12.5		50	37.5	12.5		26.7	20	53.3		40	40	20		
PHF	.333	.833	.500	.800	.500	.375	.250	.500	.500	.375	.667	.536	.500	.500	.250	.417	.647

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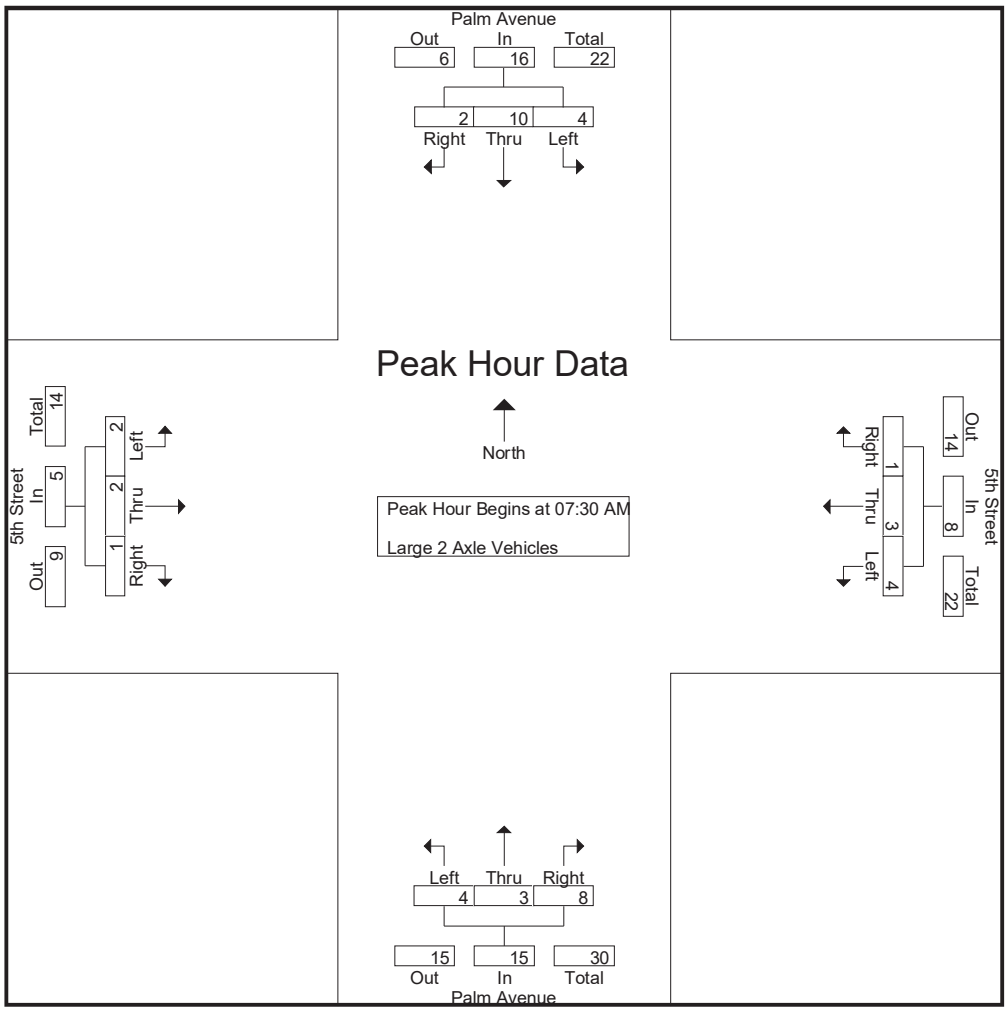
City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	1	**3**	**1**	**5**	0	0	0	0	1	0	1	2	0	0	0	0
+15 mins.	0	3	0	3	1	0	**1**	2	1	0	1	2	**1**	**1**	**1**	**3**
+30 mins.	**3**	1	0	4	1	1	0	2	0	1	**3**	4	0	0	0	0
+45 mins.	0	3	1	4	**2**	**2**	0	**4**	**2**	**2**	3	**7**	1	1	0	2
Total Volume	4	10	2	16	4	3	1	8	4	3	8	15	2	2	1	5
% App. Total	25	62.5	12.5		50	37.5	12.5		26.7	20	53.3		40	40	20	
PHF	.333	.833	.500	.800	.500	.375	.250	.500	.500	.375	.667	.536	.500	.500	.250	.417

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File Name : 77_HLD_Palm_5th AM
Site Code : 99918385
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Groups Printed- 3 Axle Vehicles

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	2	1	0	3	0	0	3	3	0	0	0	0	6
06:15 AM	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	5
06:30 AM	0	0	0	0	1	0	0	1	0	0	2	2	0	0	0	0	3
06:45 AM	0	0	0	0	2	1	0	3	0	0	4	4	0	0	0	0	7
Total	0	0	0	0	5	2	0	7	0	0	14	14	0	0	0	0	21
07:00 AM	0	0	0	0	1	0	0	1	1	0	9	10	0	1	0	1	12
07:15 AM	0	0	0	0	1	0	0	1	0	0	11	11	0	2	0	2	14
07:30 AM	0	0	0	0	3	0	0	3	0	0	10	10	0	1	0	1	14
07:45 AM	0	2	0	2	0	1	1	2	0	0	11	11	0	0	0	0	15
Total	0	2	0	2	5	1	1	7	1	0	41	42	0	4	0	4	55
08:00 AM	0	0	0	0	2	0	0	2	0	0	9	9	0	1	1	2	13
08:15 AM	0	0	0	0	2	0	0	2	0	0	6	6	0	0	0	0	8
08:30 AM	0	0	0	0	7	0	0	7	0	1	7	8	0	0	0	0	15
08:45 AM	0	0	0	0	3	0	0	3	1	0	7	8	0	0	0	0	11
Total	0	0	0	0	14	0	0	14	1	1	29	31	0	1	1	2	47
Grand Total	0	2	0	2	24	3	1	28	2	1	84	87	0	5	1	6	123
Apprch %	0	100	0		85.7	10.7	3.6		2.3	1.1	96.6		0	83.3	16.7		
Total %	0	1.6	0	1.6	19.5	2.4	0.8	22.8	1.6	0.8	68.3	70.7	0	4.1	0.8	4.9	

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	**3**	0	0	**3**	0	0	10	10	0	**1**	0	1	14
07:45 AM	0	**2**	0	**2**	0	**1**	**1**	2	0	0	**11**	**11**	0	0	0	0	**15**
08:00 AM	0	0	0	0	2	0	0	2	0	0	9	9	0	1	**1**	**2**	13
08:15 AM	0	0	0	0	2	0	0	2	0	0	6	6	0	0	0	0	8
Total Volume	0	2	0	2	7	1	1	9	0	0	36	36	0	2	1	3	50
% App. Total	0	100	0		77.8	11.1	11.1		0	0	100		0	66.7	33.3		
PHF	.000	.250	.000	.250	.583	.250	.250	.750	.000	.000	.818	.818	.000	.500	.250	.375	.833

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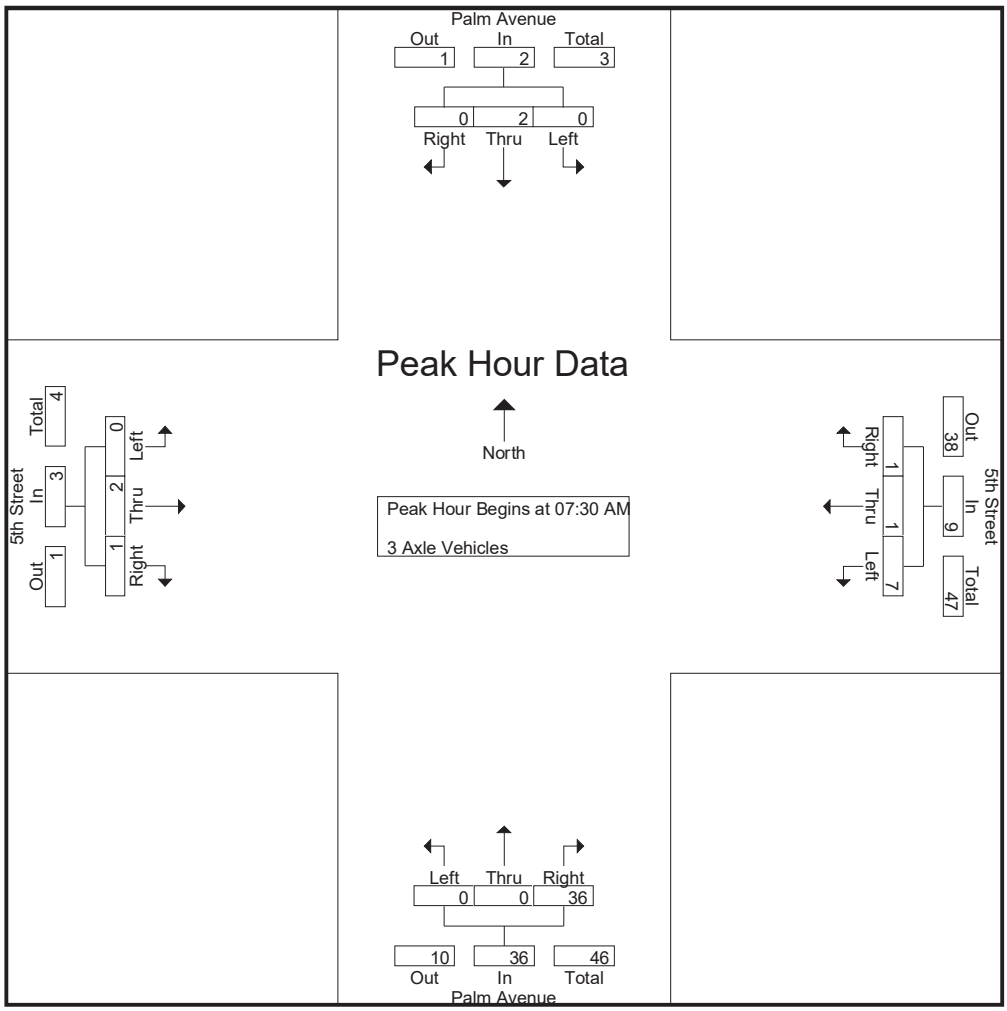

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	**3**	0	0	**3**	0	0	10	10	0	**1**	0	1
+15 mins.	0	**2**	0	**2**	0	**1**	**1**	2	0	0	**11**	**11**	0	0	0	0
+30 mins.	0	0	0	0	2	0	0	2	0	0	9	9	0	1	**1**	**2**
+45 mins.	0	0	0	0	2	0	0	2	0	0	6	6	0	0	0	0
Total Volume	0	2	0	2	7	1	1	9	0	0	36	36	0	2	1	3
% App. Total	0	100	0		77.8	11.1	11.1		0	0	100		0	66.7	33.3	
PHF	.000	.250	.000	.250	.583	.250	.250	.750	.000	.000	.818	.818	.000	.500	.250	.375

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Groups Printed- 4+ Axle Trucks

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	2	0	0	2	0	0	7	7	0	3	0	3	12
06:15 AM	0	0	0	0	3	0	0	3	0	0	6	6	0	0	0	0	9
06:30 AM	0	0	0	0	0	1	0	1	0	0	4	4	0	1	0	1	6
06:45 AM	2	0	0	2	3	2	0	5	0	0	3	3	0	0	0	0	10
Total	2	0	0	2	8	3	0	11	0	0	20	20	0	4	0	4	37
07:00 AM	0	0	0	0	3	0	0	3	0	0	4	4	0	0	0	0	7
07:15 AM	0	0	0	0	2	0	0	2	0	0	6	6	0	0	0	0	8
07:30 AM	0	0	0	0	5	0	0	5	0	0	5	5	0	0	0	0	10
07:45 AM	0	0	0	0	6	0	0	6	0	0	7	7	0	1	1	2	15
Total	0	0	0	0	16	0	0	16	0	0	22	22	0	1	1	2	40
08:00 AM	0	0	0	0	1	1	0	2	0	0	6	6	0	0	0	0	8
08:15 AM	0	1	0	1	6	0	0	6	0	0	4	4	0	0	0	0	11
08:30 AM	0	1	0	1	6	2	0	8	0	0	3	3	0	1	0	1	13
08:45 AM	1	0	0	1	7	1	0	8	0	0	8	8	0	1	0	1	18
Total	1	2	0	3	20	4	0	24	0	0	21	21	0	2	0	2	50
Grand Total	3	2	0	5	44	7	0	51	0	0	63	63	0	7	1	8	127
Apprch %	60	40	0		86.3	13.7	0		0	0	100		0	87.5	12.5		
Total %	2.4	1.6	0	3.9	34.6	5.5	0	40.2	0	0	49.6	49.6	0	5.5	0.8	6.3	

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	5	0	0	5	0	0	5	5	0	0	0	0	10
07:45 AM	0	0	0	0	**6**	0	0	**6**	0	0	**7**	**7**	0	**1**	**1**	**2**	**15**
08:00 AM	0	0	0	0	1	**1**	0	2	0	0	6	6	0	0	0	0	8
08:15 AM	0	**1**	0	**1**	6	0	0	6	0	0	4	4	0	0	0	0	11
Total Volume	0	1	0	1	18	1	0	19	0	0	22	22	0	1	1	2	44
% App. Total	0	100	0		94.7	5.3	0		0	0	100		0	50	50		
PHF	.000	.250	.000	.250	.750	.250	.000	.792	.000	.000	.786	.786	.000	.250	.250	.250	.733

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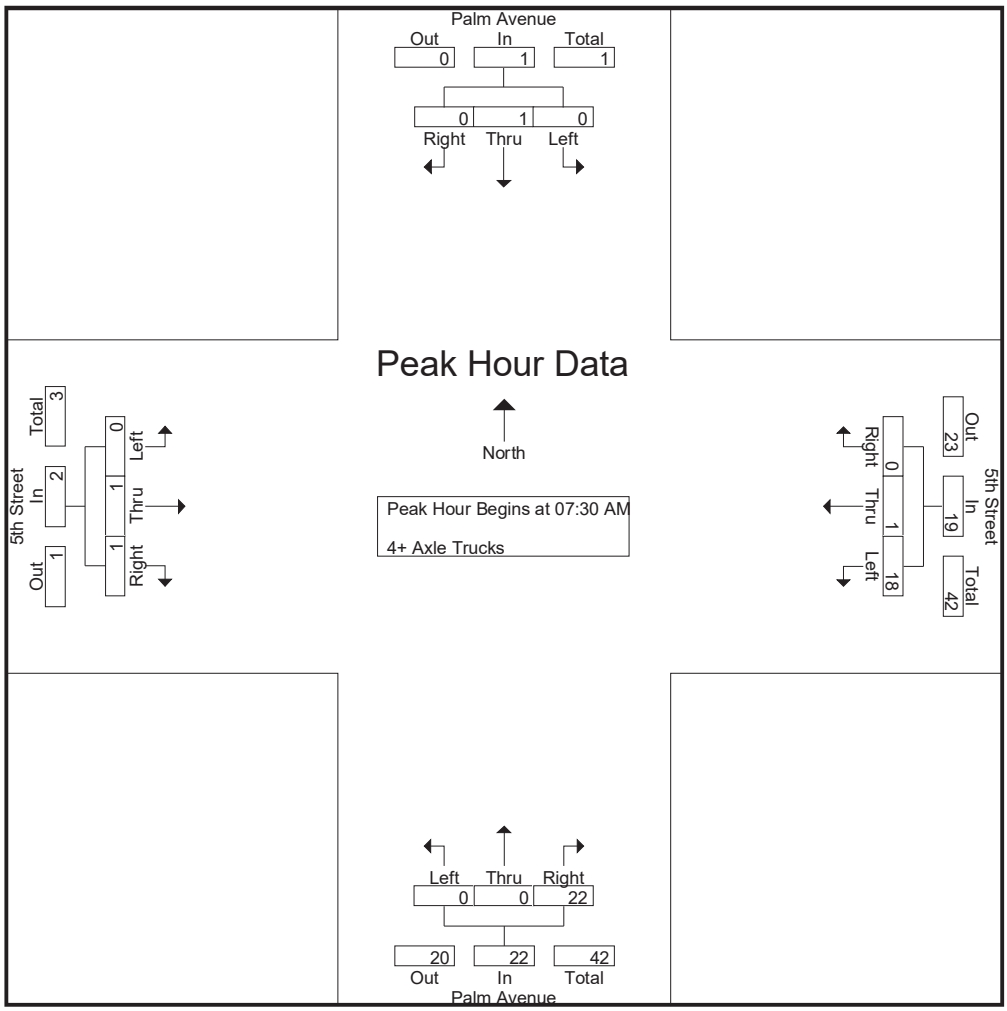

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	5	0	0	5	0	0	5	5	0	0	0	0
+15 mins.	0	0	0	0	**6**	0	0	**6**	0	0	**7**	**7**	0	**1**	**1**	**2**
+30 mins.	0	0	0	0	1	**1**	0	2	0	0	6	6	0	0	0	0
+45 mins.	0	**1**	0	**1**	6	0	0	6	0	0	4	4	0	0	0	0
Total Volume	0	1	0	1	18	1	0	19	0	0	22	22	0	1	1	2
% App. Total	0	100	0		94.7	5.3	0		0	0	100		0	50	50	
PHF	.000	.250	.000	.250	.750	.250	.000	.792	.000	.000	.786	.786	.000	.250	.250	.250

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	27	49	4	80	34	55	39	128	18	78	52	148	3	87	17	107	463
03:15 PM	30	37	8	75	31	64	31	126	13	92	77	182	6	60	6	72	455
03:30 PM	27	40	3	70	44	56	31	131	15	68	62	145	2	67	6	75	421
03:45 PM	32	47	7	86	37	70	34	141	16	85	84	185	10	93	18	121	533
Total	116	173	22	311	146	245	135	526	62	323	275	660	21	307	47	375	1872
04:00 PM	38	57	7	102	44	57	48	149	31	134	93	258	16	106	16	138	647
04:15 PM	57	51	14	122	40	61	32	133	23	104	91	218	12	128	12	152	625
04:30 PM	40	55	5	100	40	57	23	120	20	132	112	264	14	125	13	152	636
04:45 PM	39	71	10	120	47	50	42	139	22	133	120	275	20	187	17	224	758
Total	174	234	36	444	171	225	145	541	96	503	416	1015	62	546	58	666	2666
05:00 PM	40	68	2	110	31	60	39	130	18	154	106	278	18	132	11	161	679
05:15 PM	48	46	8	102	47	57	23	127	20	145	138	303	21	223	19	263	795
05:30 PM	45	60	8	113	36	70	27	133	25	130	141	296	9	147	13	169	711
05:45 PM	36	57	6	99	38	58	57	153	26	118	99	243	10	110	16	136	631
Total	169	231	24	424	152	245	146	543	89	547	484	1120	58	612	59	729	2816
Grand Total	459	638	82	1179	469	715	426	1610	247	1373	1175	2795	141	1465	164	1770	7354
Apprch %	38.9	54.1	7		29.1	44.4	26.5		8.8	49.1	42		8	82.8	9.3		
Total %	6.2	8.7	1.1	16	6.4	9.7	5.8	21.9	3.4	18.7	16	38	1.9	19.9	2.2	24.1	
Passenger Vehicles	452	633	76	1161	407	690	420	1517	240	1363	1113	2716	133	1437	160	1730	7124
% Passenger Vehicles	98.5	99.2	92.7	98.5	86.8	96.5	98.6	94.2	97.2	99.3	94.7	97.2	94.3	98.1	97.6	97.7	96.9
Large 2 Axle Vehicles	6	4	6	16	14	17	2	33	3	5	15	23	7	20	1	28	100
% Large 2 Axle Vehicles	1.3	0.6	7.3	1.4	3	2.4	0.5	2	1.2	0.4	1.3	0.8	5	1.4	0.6	1.6	1.4
3 Axle Vehicles	0	0	0	0	16	1	0	17	1	2	7	10	1	2	1	4	31
% 3 Axle Vehicles	0	0	0	0	3.4	0.1	0	1.1	0.4	0.1	0.6	0.4	0.7	0.1	0.6	0.2	0.4
4+ Axle Trucks	1	1	0	2	32	7	4	43	3	3	40	46	0	6	2	8	99
% 4+ Axle Trucks	0.2	0.2	0	0.2	6.8	1	0.9	2.7	1.2	0.2	3.4	1.6	0	0.4	1.2	0.5	1.3

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	39	**71**	**10**	**120**	**47**	50	**42**	**139**	22	133	120	275	20	187	17	224	758
05:00 PM	40	68	2	110	31	60	39	130	18	**154**	106	278	18	132	11	161	679
05:15 PM	**48**	46	8	102	47	57	23	127	20	145	138	**303**	**21**	**223**	**19**	**263**	**795**
05:30 PM	45	60	8	113	36	**70**	27	133	**25**	130	**141**	296	9	147	13	169	711
Total Volume	172	245	28	445	161	237	131	529	85	562	505	1152	68	689	60	817	2943
% App. Total	38.7	55.1	6.3		30.4	44.8	24.8		7.4	48.8	43.8		8.3	84.3	7.3		
PHF	.896	.863	.700	.927	.856	.846	.780	.951	.850	.912	.895	.950	.810	.772	.789	.777	.925

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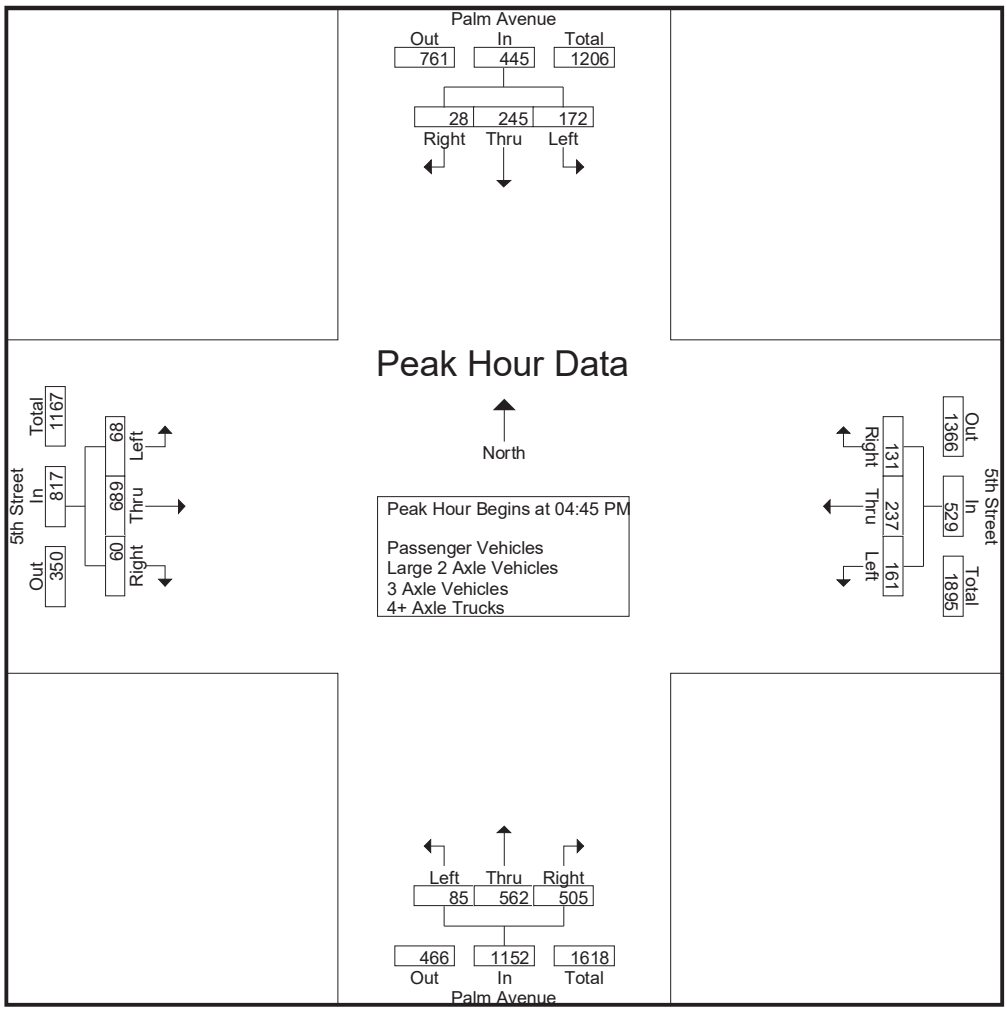

Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				03:30 PM				04:45 PM				04:45 PM			
+0 mins.	**57**	51	**14**	**122**	**44**	56	31	131	22	133	120	275	20	187	17	224
+15 mins.	40	55	5	100	37	**70**	34	141	18	**154**	106	278	18	132	11	161
+30 mins.	39	**71**	10	120	44	57	**48**	**149**	20	145	138	**303**	**21**	**223**	**19**	**263**
+45 mins.	40	68	2	110	40	61	32	133	**25**	130	**141**	296	9	147	13	169
Total Volume	176	245	31	452	165	244	145	554	85	562	505	1152	68	689	60	817
% App. Total	38.9	54.2	6.9		29.8	44	26.2		7.4	48.8	43.8		8.3	84.3	7.3	
PHF	.772	.863	.554	.926	.938	.871	.755	.930	.850	.912	.895	.950	.810	.772	.789	.777

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Groups Printed- Passenger Vehicles

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	25	49	4	78	29	54	37	120	18	78	45	141	3	84	17	104	443
03:15 PM	30	35	7	72	21	62	30	113	12	91	72	175	5	60	6	71	431
03:30 PM	27	40	3	70	39	53	30	122	15	68	57	140	1	63	6	70	402
03:45 PM	31	47	6	84	30	67	34	131	16	85	79	180	9	92	18	119	514
Total	113	171	20	304	119	236	131	486	61	322	253	636	18	299	47	364	1790
04:00 PM	38	57	7	102	39	56	47	142	29	134	88	251	16	103	15	134	629
04:15 PM	56	51	13	120	35	59	32	126	22	104	85	211	12	127	11	150	607
04:30 PM	40	54	5	99	35	54	23	112	20	128	103	251	12	122	12	146	608
04:45 PM	38	70	9	117	41	50	42	133	22	132	115	269	19	187	17	223	742
Total	172	232	34	438	150	219	144	513	93	498	391	982	59	539	55	653	2586
05:00 PM	40	68	2	110	26	57	38	121	17	152	101	270	18	128	11	157	658
05:15 PM	47	46	7	100	44	55	23	122	19	144	134	297	20	219	19	258	777
05:30 PM	45	60	8	113	33	66	27	126	25	129	138	292	9	146	13	168	699
05:45 PM	35	56	5	96	35	57	57	149	25	118	96	239	9	106	15	130	614
Total	167	230	22	419	138	235	145	518	86	543	469	1098	56	599	58	713	2748
Grand Total	452	633	76	1161	407	690	420	1517	240	1363	1113	2716	133	1437	160	1730	7124
Apprch %	38.9	54.5	6.5		26.8	45.5	27.7		8.8	50.2	41		7.7	83.1	9.2		
Total %	6.3	8.9	1.1	16.3	5.7	9.7	5.9	21.3	3.4	19.1	15.6	38.1	1.9	20.2	2.2	24.3	

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	38	**70**	**9**	**117**	41	50	**42**	**133**	22	132	115	269	19	187	17	223	742
05:00 PM	40	68	2	110	26	57	38	121	17	**152**	101	270	18	128	11	157	658
05:15 PM	**47**	46	7	100	**44**	55	23	122	19	144	134	**297**	**20**	**219**	**19**	**258**	**777**
05:30 PM	45	60	8	113	33	**66**	27	126	**25**	129	**138**	292	9	146	13	168	699
Total Volume	170	244	26	440	144	228	130	502	83	557	488	1128	66	680	60	806	2876
% App. Total	38.6	55.5	5.9		28.7	45.4	25.9		7.4	49.4	43.3		8.2	84.4	7.4		
PHF	.904	.871	.722	.940	.818	.864	.774	.944	.830	.916	.884	.949	.825	.776	.789	.781	.925

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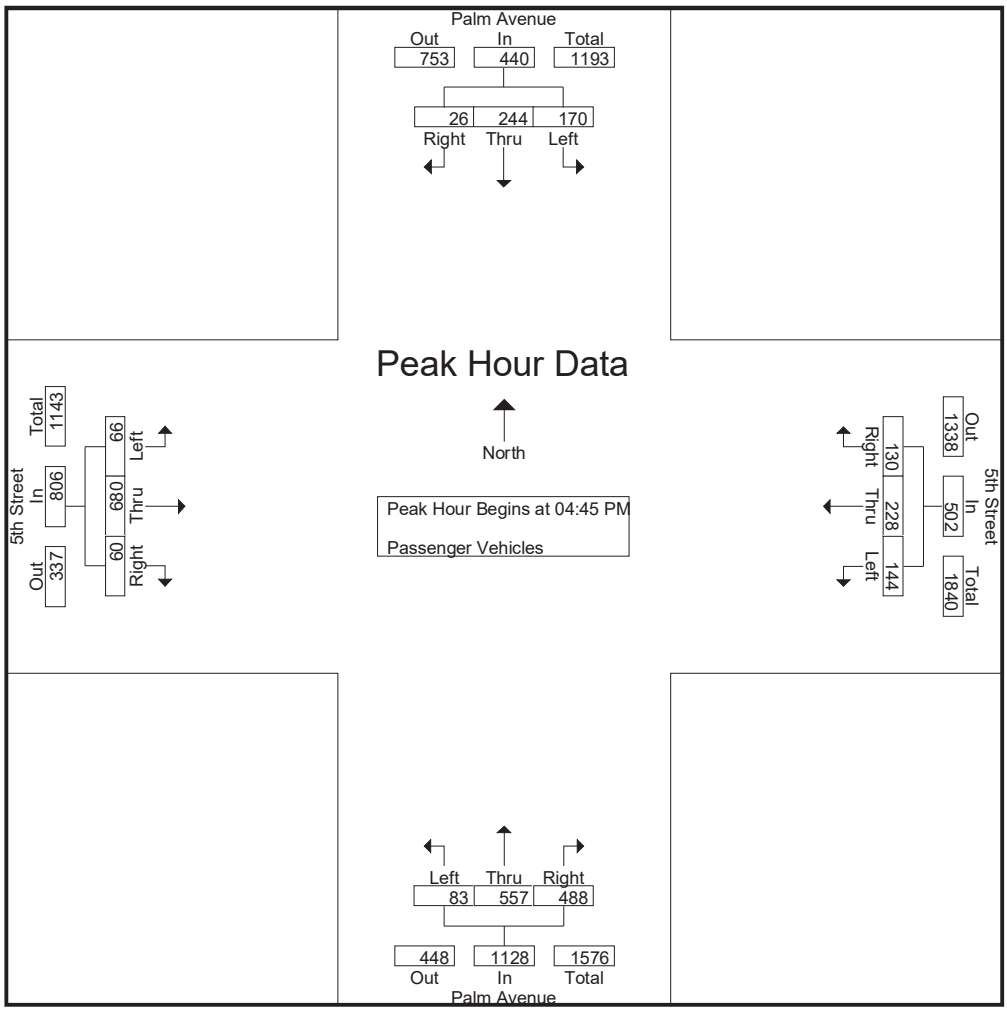
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	38	**70**	**9**	**117**	41	50	**42**	**133**	22	132	115	269	19	187	17	223
+15 mins.	40	68	2	110	26	57	38	121	17	**152**	101	270	18	128	11	157
+30 mins.	**47**	46	7	100	**44**	55	23	122	19	144	134	**297**	**20**	**219**	**19**	**258**
+45 mins.	45	60	8	113	33	**66**	27	126	**25**	129	**138**	292	9	146	13	168
Total Volume	170	244	26	440	144	228	130	502	83	557	488	1128	66	680	60	806
% App. Total	38.6	55.5	5.9		28.7	45.4	25.9		7.4	49.4	43.3		8.2	84.4	7.4	
PHF	.904	.871	.722	.940	.818	.864	.774	.944	.830	.916	.884	.949	.825	.776	.789	.781

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	2	0	0	2	3	1	0	4	0	0	1	1	0	2	0	2	9
03:15 PM	0	2	1	3	3	1	0	4	0	0	3	3	0	0	0	0	10
03:30 PM	0	0	0	0	0	3	1	4	0	0	1	1	1	4	0	5	10
03:45 PM	1	0	1	2	1	2	0	3	0	0	3	3	1	1	0	2	10
Total	3	2	2	7	7	7	1	15	0	0	8	8	2	7	0	9	39
04:00 PM	0	0	0	0	2	1	0	3	1	0	0	1	0	1	0	1	5
04:15 PM	0	0	1	1	1	1	0	2	0	0	1	1	0	1	0	1	5
04:30 PM	0	0	0	0	1	3	0	4	0	3	2	5	2	1	1	4	13
04:45 PM	1	1	1	3	1	0	0	1	0	0	0	0	1	0	0	1	5
Total	1	1	2	4	5	5	0	10	1	3	3	7	3	3	1	7	28
05:00 PM	0	0	0	0	0	1	1	2	0	1	2	3	0	2	0	2	7
05:15 PM	1	0	1	2	1	1	0	2	1	0	1	2	1	4	0	5	11
05:30 PM	0	0	0	0	0	3	0	3	0	1	1	2	0	1	0	1	6
05:45 PM	1	1	1	3	1	0	0	1	1	0	0	1	1	3	0	4	9
Total	2	1	2	5	2	5	1	8	2	2	4	8	2	10	0	12	33
Grand Total	6	4	6	16	14	17	2	33	3	5	15	23	7	20	1	28	100
Apprch %	37.5	25	37.5		42.4	51.5	6.1		13	21.7	65.2		25	71.4	3.6		
Total %	6	4	6	16	14	17	2	33	3	5	15	23	7	20	1	28	

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**1**	**1**	**1**	**3**	**1**	0	0	1	0	0	0	0	**1**	0	0	1	5
05:00 PM	0	0	0	0	0	1	**1**	2	0	**1**	**2**	**3**	0	2	0	2	7
05:15 PM	1	0	1	2	1	1	0	2	**1**	0	1	2	1	**4**	0	**5**	**11**
05:30 PM	0	0	0	0	0	**3**	0	**3**	0	1	1	2	0	1	0	1	6
Total Volume	2	1	2	5	2	5	1	8	1	2	4	7	2	7	0	9	29
% App. Total	40	20	40		25	62.5	12.5		14.3	28.6	57.1		22.2	77.8	0		
PHF	.500	.250	.500	.417	.500	.417	.250	.667	.250	.500	.500	.583	.500	.438	.000	.450	.659

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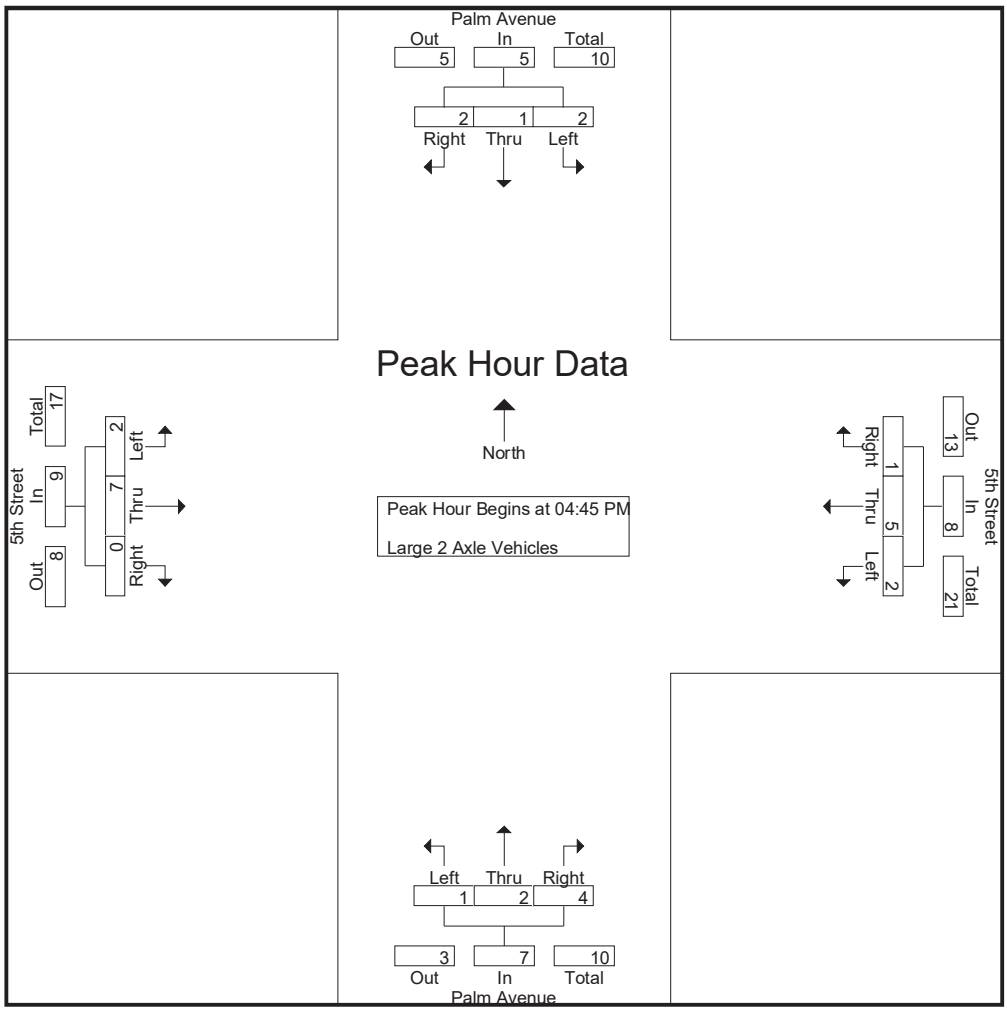
City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	**1**	**1**	**1**	**3**	**1**	0	0	1	0	0	0	0	**1**	0	0	1
+15 mins.	0	0	0	0	0	1	**1**	2	0	**1**	**2**	**3**	0	2	0	2
+30 mins.	1	0	1	2	1	1	0	2	**1**	0	1	2	1	**4**	0	**5**
+45 mins.	0	0	0	0	0	**3**	0	**3**	0	1	1	2	0	1	0	1
Total Volume	2	1	2	5	2	5	1	8	1	2	4	7	2	7	0	9
% App. Total	40	20	40		25	62.5	12.5		14.3	28.6	57.1		22.2	77.8	0	
PHF	.500	.250	.500	.417	.500	.417	.250	.667	.250	.500	.500	.583	.500	.438	.000	.450

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City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
03:30 PM	0	0	0	0	2	0	0	2	0	0	2	2	0	0	0	0	4
03:45 PM	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3
Total	0	0	0	0	6	0	0	6	0	0	3	3	1	0	0	1	10
04:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	0	1	1	2	4
04:15 PM	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	2
04:30 PM	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2
04:45 PM	0	0	0	0	2	0	0	2	0	1	0	1	0	0	0	0	3
Total	0	0	0	0	6	0	0	6	1	1	1	3	0	1	1	2	11
05:00 PM	0	0	0	0	3	1	0	4	0	1	2	3	0	0	0	0	7
05:15 PM	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	0	0	4	1	0	5	0	1	3	4	0	1	0	1	10
Grand Total	0	0	0	0	16	1	0	17	1	2	7	10	1	2	1	4	31
Apprch %	0	0	0		94.1	5.9	0		10	20	70		25	50	25		
Total %	0	0	0	0	51.6	3.2	0	54.8	3.2	6.5	22.6	32.3	3.2	6.5	3.2	12.9	

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	0	0	2	0	0	2	0	**1**	0	1	0	0	0	0	3
05:00 PM	0	0	0	0	**3**	**1**	0	**4**	0	1	**2**	**3**	0	0	0	0	**7**
05:15 PM	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	6	1	0	7	0	2	3	5	0	0	0	0	12
% App. Total	0	0	0		85.7	14.3	0		0	40	60		0	0	0		
PHF	.000	.000	.000	.000	.500	.250	.000	.438	.000	.500	.375	.417	.000	.000	.000	.000	.429

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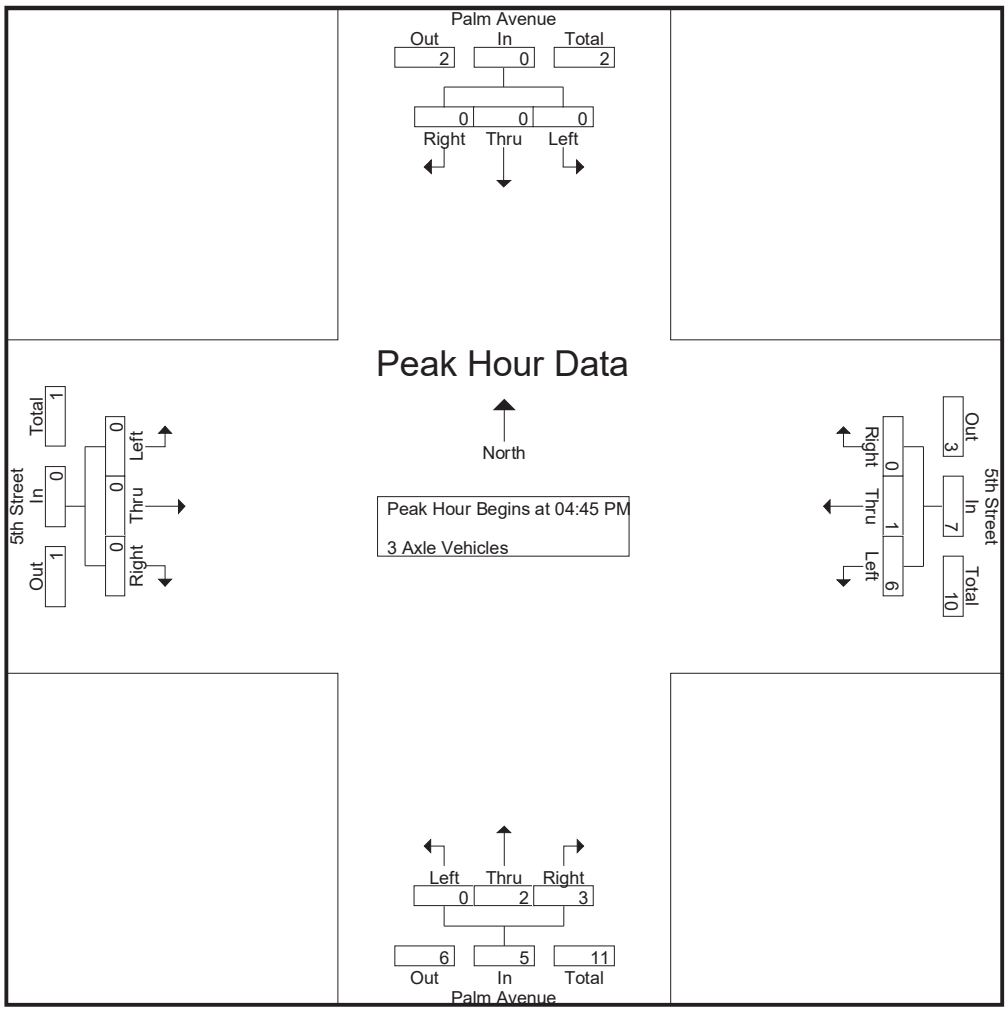
City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	0	0	2	0	0	2	0	**1**	0	1	0	0	0	0
+15 mins.	0	0	0	0	**3**	**1**	0	**4**	0	1	**2**	**3**	0	0	0	0
+30 mins.	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	6	1	0	7	0	2	3	5	0	0	0	0
% App. Total	0	0	0		85.7	14.3	0		0	40	60		0	0	0	
PHF	.000	.000	.000	.000	.500	.250	.000	.438	.000	.500	.375	.417	.000	.000	.000	.000

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City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th PM
Site Code : 99918385
Start Date : 5/1/2018

Groups Printed- 4+ Axle Trucks

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	0	0	0	0	1	0	2	3	0	0	5	5	0	1	0	1	9
03:15 PM	0	0	0	0	7	1	1	9	1	1	2	4	0	0	0	0	13
03:30 PM	0	0	0	0	3	0	0	3	0	0	2	2	0	0	0	0	5
03:45 PM	0	0	0	0	3	1	0	4	0	0	2	2	0	0	0	0	6
Total	0	0	0	0	14	2	3	19	1	1	11	13	0	1	0	1	33
04:00 PM	0	0	0	0	1	0	1	2	1	0	5	6	0	1	0	1	9
04:15 PM	1	0	0	1	3	1	0	4	0	0	5	5	0	0	1	1	11
04:30 PM	0	1	0	1	3	0	0	3	0	1	6	7	0	2	0	2	13
04:45 PM	0	0	0	0	3	0	0	3	0	0	5	5	0	0	0	0	8
Total	1	1	0	2	10	1	1	12	1	1	21	23	0	3	1	4	41
05:00 PM	0	0	0	0	2	1	0	3	1	0	1	2	0	2	0	2	7
05:15 PM	0	0	0	0	1	1	0	2	0	1	2	3	0	0	0	0	5
05:30 PM	0	0	0	0	3	1	0	4	0	0	2	2	0	0	0	0	6
05:45 PM	0	0	0	0	2	1	0	3	0	0	3	3	0	0	1	1	7
Total	0	0	0	0	8	4	0	12	1	1	8	10	0	2	1	3	25
Grand Total	1	1	0	2	32	7	4	43	3	3	40	46	0	6	2	8	99
Apprch %	50	50	0		74.4	16.3	9.3		6.5	6.5	87		0	75	25		
Total %	1	1	0	2	32.3	7.1	4	43.4	3	3	40.4	46.5	0	6.1	2	8.1	

	Palm Avenue Southbound				5th Street Westbound				Palm Avenue Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	0	0	**3**	0	0	3	0	0	**5**	**5**	0	0	0	0	**8**
05:00 PM	0	0	0	0	2	**1**	0	3	**1**	0	1	2	0	**2**	0	**2**	7
05:15 PM	0	0	0	0	1	1	0	2	0	**1**	2	3	0	0	0	0	5
05:30 PM	0	0	0	0	3	1	0	**4**	0	0	2	2	0	0	0	0	6
Total Volume	0	0	0	0	9	3	0	12	1	1	10	12	0	2	0	2	26
% App. Total	0	0	0		75	25	0		8.3	8.3	83.3		0	100	0		
PHF	.000	.000	.000	.000	.750	.750	.000	.750	.250	.250	.500	.600	.000	.250	.000	.250	.813

Counts Unlimited
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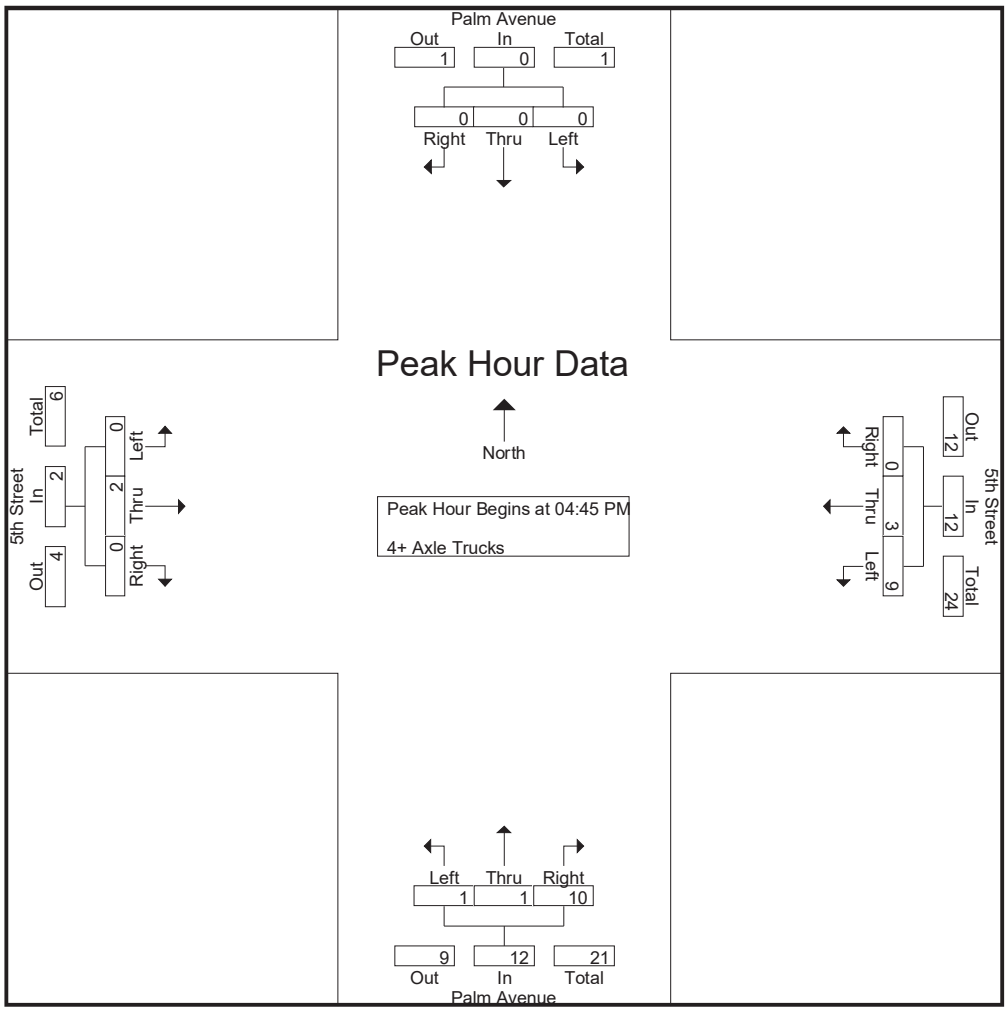
City of Highland
N/S: Palm Avenue
E/W: 5th Street
Weather: Clear

File Name : 77_HLD_Palm_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	0	0	**3**	0	0	3	0	0	**5**	**5**	0	0	0	0
+15 mins.	0	0	0	0	2	**1**	0	3	**1**	0	1	2	0	**2**	0	**2**
+30 mins.	0	0	0	0	1	1	0	2	0	**1**	2	3	0	0	0	0
+45 mins.	0	0	0	0	3	1	0	**4**	0	0	2	2	0	0	0	0
Total Volume	0	0	0	0	9	3	0	12	1	1	10	12	0	2	0	2
% App. Total	0	0	0		75	25	0		8.3	8.3	83.3		0	100	0	
PHF	.000	.000	.000	.000	.750	.750	.000	.750	.250	.250	.500	.600	.000	.250	.000	.250

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City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd AM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	3	88	49	140	0	3	7	10	19	37	0	56	22	1	34	57	263
07:15 AM	1	98	58	157	0	1	6	7	29	51	0	80	21	0	36	57	301
07:30 AM	3	144	42	189	1	0	4	5	29	37	0	66	18	0	42	60	320
07:45 AM	2	215	50	267	1	1	6	8	47	51	3	101	16	1	48	65	441
Total	9	545	199	753	2	5	23	30	124	176	3	303	77	2	160	239	1325
08:00 AM	1	230	35	266	0	0	4	4	27	65	0	92	25	1	32	58	420
08:15 AM	4	186	24	214	3	0	6	9	29	86	1	116	22	1	35	58	397
08:30 AM	9	125	21	155	1	1	8	10	32	101	1	134	17	0	30	47	346
08:45 AM	6	115	22	143	0	1	4	5	23	42	2	67	30	1	49	80	295
Total	20	656	102	778	4	2	22	28	111	294	4	409	94	3	146	243	1458
Grand Total	29	1201	301	1531	6	7	45	58	235	470	7	712	171	5	306	482	2783
Apprch %	1.9	78.4	19.7		10.3	12.1	77.6		33	66	1		35.5	1	63.5		
Total %	1	43.2	10.8	55	0.2	0.3	1.6	2.1	8.4	16.9	0.3	25.6	6.1	0.2	11	17.3	
Passenger Vehicles	15	1161	277	1453	5	5	24	34	192	392	6	590	131	5	262	398	2475
% Passenger Vehicles	51.7	96.7	92	94.9	83.3	71.4	53.3	58.6	81.7	83.4	85.7	82.9	76.6	100	85.6	82.6	88.9
Large 2 Axle Vehicles	3	2	10	15	1	1	10	12	1	7	1	9	3	0	4	7	43
% Large 2 Axle Vehicles	10.3	0.2	3.3	1	16.7	14.3	22.2	20.7	0.4	1.5	14.3	1.3	1.8	0	1.3	1.5	1.5
3 Axle Vehicles	1	18	3	22	0	1	5	6	15	46	0	61	23	0	26	49	138
% 3 Axle Vehicles	3.4	1.5	1	1.4	0	14.3	11.1	10.3	6.4	9.8	0	8.6	13.5	0	8.5	10.2	5
4+ Axle Trucks	10	20	11	41	0	0	6	6	27	25	0	52	14	0	14	28	127
% 4+ Axle Trucks	34.5	1.7	3.7	2.7	0	0	13.3	10.3	11.5	5.3	0	7.3	8.2	0	4.6	5.8	4.6

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	2	215	**50**	**267**	1	**1**	6	8	**47**	51	**3**	101	16	**1**	**48**	**65**	**441**
08:00 AM	1	**230**	35	266	0	0	4	4	27	65	0	92	**25**	1	32	58	420
08:15 AM	4	186	24	214	**3**	0	6	9	29	86	1	116	22	1	35	58	397
08:30 AM	**9**	125	21	155	1	1	**8**	**10**	32	**101**	1	**134**	17	0	30	47	346
Total Volume	16	756	130	902	5	2	24	31	135	303	5	443	80	3	145	228	1604
% App. Total	1.8	83.8	14.4		16.1	6.5	77.4		30.5	68.4	1.1		35.1	1.3	63.6		
PHF	.444	.822	.650	.845	.417	.500	.750	.775	.718	.750	.417	.826	.800	.750	.755	.877	.909

Counts Unlimited
PO Box 1178
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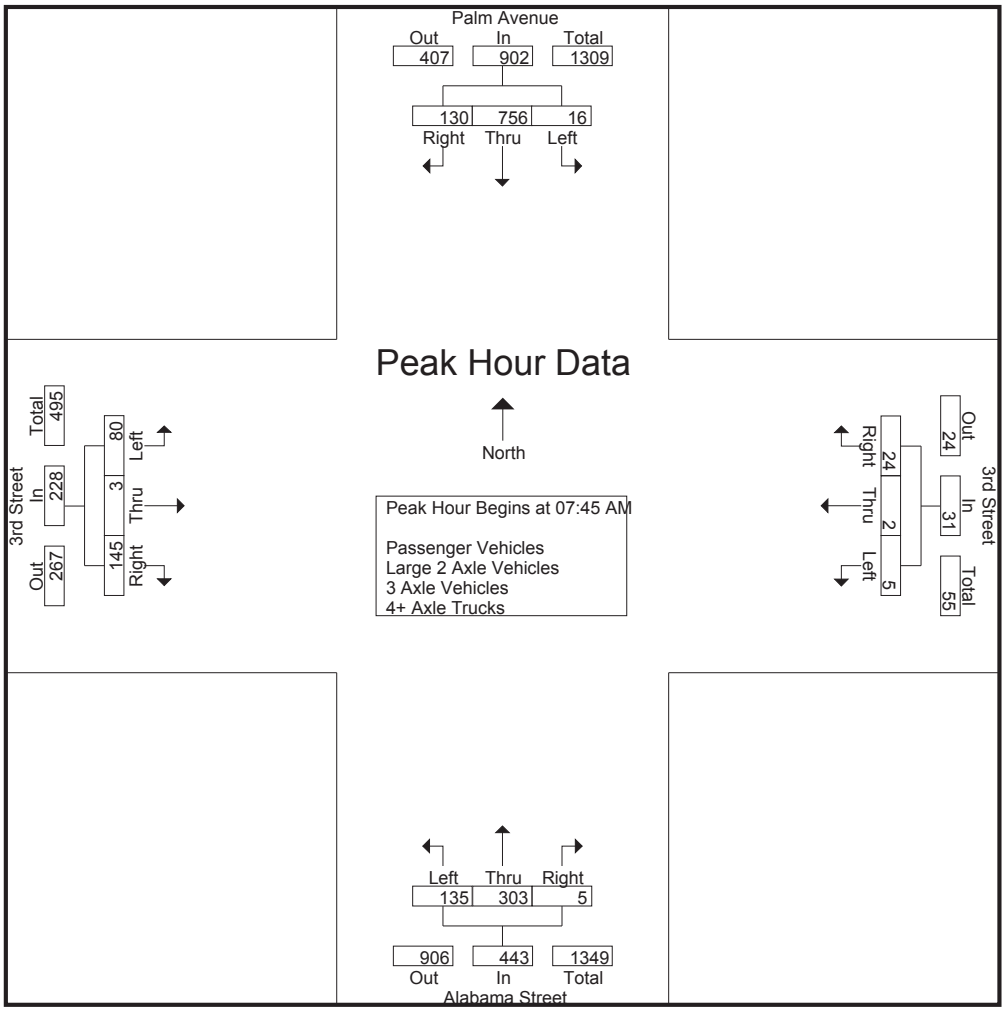
(951) 268-6268

City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd AM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:45 AM				07:45 AM				08:00 AM			
+0 mins.	3	144	42	189	1	**1**	6	8	**47**	51	**3**	101	25	**1**	32	58
+15 mins.	2	215	**50**	**267**	0	0	4	4	27	65	0	92	22	1	35	58
+30 mins.	1	**230**	35	266	**3**	0	6	9	29	86	1	116	17	0	30	47
+45 mins.	**4**	186	24	214	1	1	**8**	**10**	32	**101**	1	**134**	**30**	1	**49**	**80**
Total Volume	10	775	151	936	5	2	24	31	135	303	5	443	94	3	146	243
% App. Total	1.1	82.8	16.1		16.1	6.5	77.4		30.5	68.4	1.1		38.7	1.2	60.1	
PHF	.625	.842	.755	.876	.417	.500	.750	.775	.718	.750	.417	.826	.783	.750	.745	.759

Counts Unlimited
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City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd AM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	2	86	46	134	0	3	6	9	15	26	0	41	17	1	26	44	228
07:15 AM	0	96	57	153	0	1	6	7	23	41	0	64	12	0	30	42	266
07:30 AM	1	138	40	179	1	0	1	2	24	25	0	49	13	0	36	49	279
07:45 AM	1	209	48	258	1	0	3	4	42	36	2	80	14	1	44	59	401
Total	4	529	191	724	2	4	16	22	104	128	2	234	56	2	136	194	1174
08:00 AM	1	225	35	261	0	0	1	1	22	58	0	80	19	1	28	48	390
08:15 AM	1	180	20	201	3	0	1	4	23	80	1	104	16	1	31	48	357
08:30 AM	5	116	15	136	0	0	4	4	29	92	1	122	15	0	25	40	302
08:45 AM	4	111	16	131	0	1	2	3	14	34	2	50	25	1	42	68	252
Total	11	632	86	729	3	1	8	12	88	264	4	356	75	3	126	204	1301
Grand Total	15	1161	277	1453	5	5	24	34	192	392	6	590	131	5	262	398	2475
Apprch %	1	79.9	19.1		14.7	14.7	70.6		32.5	66.4	1		32.9	1.3	65.8		
Total %	0.6	46.9	11.2	58.7	0.2	0.2	1	1.4	7.8	15.8	0.2	23.8	5.3	0.2	10.6	16.1	

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	1	209	**48**	258	1	0	3	**4**	**42**	36	**2**	80	14	**1**	**44**	**59**	**401**
08:00 AM	1	**225**	35	**261**	0	0	1	1	22	58	0	80	**19**	1	28	48	390
08:15 AM	1	180	20	201	**3**	0	1	4	23	80	1	104	16	1	31	48	357
08:30 AM	**5**	116	15	136	0	0	**4**	4	29	**92**	1	**122**	15	0	25	40	302
Total Volume	8	730	118	856	4	0	9	13	116	266	4	386	64	3	128	195	1450
% App. Total	0.9	85.3	13.8		30.8	0	69.2		30.1	68.9	1		32.8	1.5	65.6		
PHF	.400	.811	.615	.820	.333	.000	.563	.813	.690	.723	.500	.791	.842	.750	.727	.826	.904

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City of Highland
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Site Code : 99918352
Start Date : 5/1/2018
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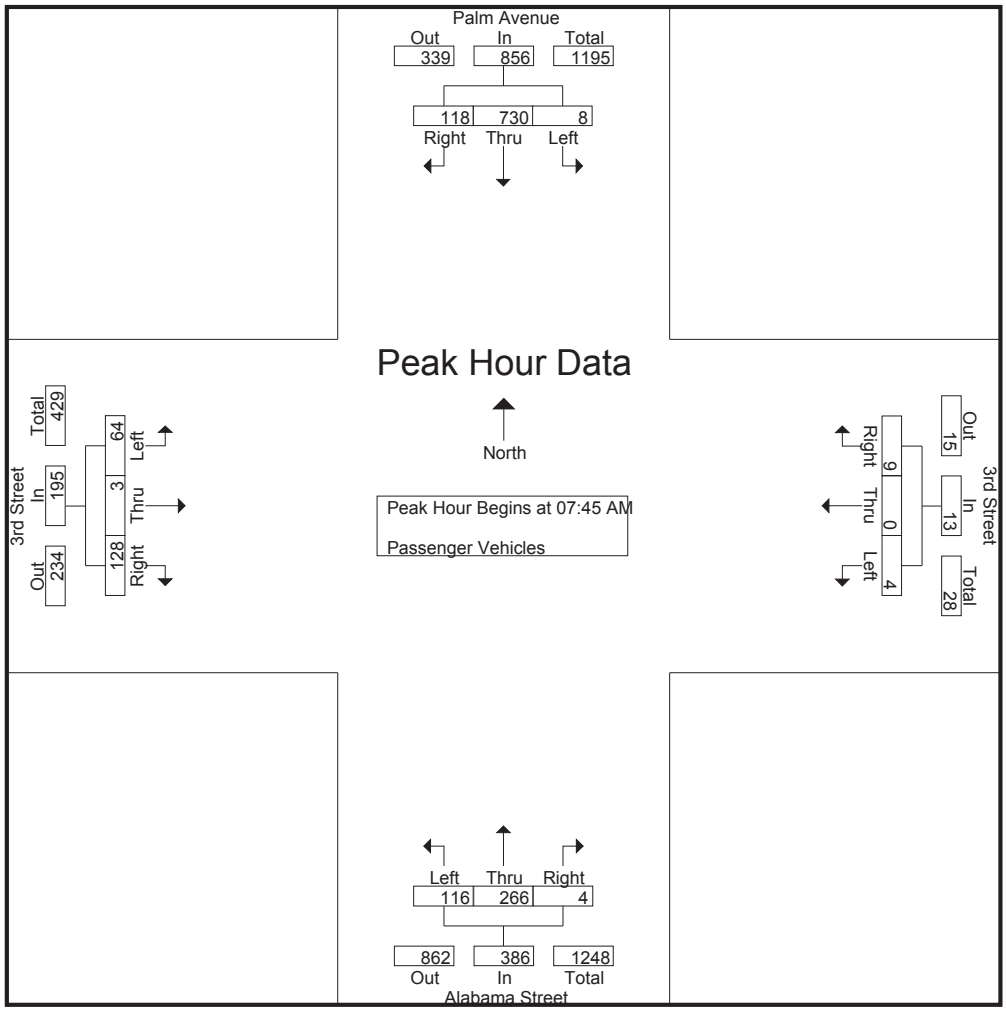

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	1	209	**48**	258	1	0	3	**4**	**42**	36	**2**	80	14	**1**	**44**	**59**
+15 mins.	1	**225**	35	**261**	0	0	1	1	22	58	0	80	**19**	1	28	48
+30 mins.	1	180	20	201	**3**	0	1	4	23	80	1	104	16	1	31	48
+45 mins.	**5**	116	15	136	0	0	**4**	4	29	**92**	1	**122**	15	0	25	40
Total Volume	8	730	118	856	4	0	9	13	116	266	4	386	64	3	128	195
% App. Total	0.9	85.3	13.8		30.8	0	69.2		30.1	68.9	1		32.8	1.5	65.6	
PHF	.400	.811	.615	.820	.333	.000	.563	.813	.690	.723	.500	.791	.842	.750	.727	.826

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City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd AM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	2	2	0	0	0	0	0	1	0	1	1	0	0	1	4
07:15 AM	0	0	1	1	0	0	0	0	0	2	0	2	0	0	0	0	3
07:30 AM	1	0	0	1	0	0	1	1	0	0	0	0	1	0	0	1	3
07:45 AM	0	0	1	1	0	1	1	2	0	1	1	2	0	0	0	0	5
Total	1	0	4	5	0	1	2	3	0	4	1	5	2	0	0	2	15
08:00 AM	0	1	0	1	0	0	2	2	0	0	0	0	0	0	0	0	3
08:15 AM	2	0	1	3	0	0	4	4	0	1	0	1	1	0	1	2	10
08:30 AM	0	1	2	3	1	0	1	2	0	1	0	1	0	0	1	1	7
08:45 AM	0	0	3	3	0	0	1	1	1	1	0	2	0	0	2	2	8
Total	2	2	6	10	1	0	8	9	1	3	0	4	1	0	4	5	28
Grand Total	3	2	10	15	1	1	10	12	1	7	1	9	3	0	4	7	43
Apprch %	20	13.3	66.7		8.3	8.3	83.3		11.1	77.8	11.1		42.9	0	57.1		
Total %	7	4.7	23.3	34.9	2.3	2.3	23.3	27.9	2.3	16.3	2.3	20.9	7	0	9.3	16.3	

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	1	1	0	**1**	1	2	0	**1**	**1**	**2**	0	0	0	0	5
08:00 AM	0	**1**	0	1	0	0	2	2	0	0	0	0	0	0	0	0	3
08:15 AM	**2**	0	1	**3**	0	0	**4**	**4**	0	1	0	1	**1**	0	**1**	**2**	**10**
08:30 AM	0	1	**2**	3	**1**	0	1	2	0	1	0	1	0	0	1	1	7
Total Volume	2	2	4	8	1	1	8	10	0	3	1	4	1	0	2	3	25
% App. Total	25	25	50		10	10	80		0	75	25		33.3	0	66.7		
PHF	.250	.500	.500	.667	.250	.250	.500	.625	.000	.750	.250	.500	.250	.000	.500	.375	.625

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City of Highland
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File Name : 08_HLD_Palm_Alabama_3rd AM
Site Code : 99918352
Start Date : 5/1/2018
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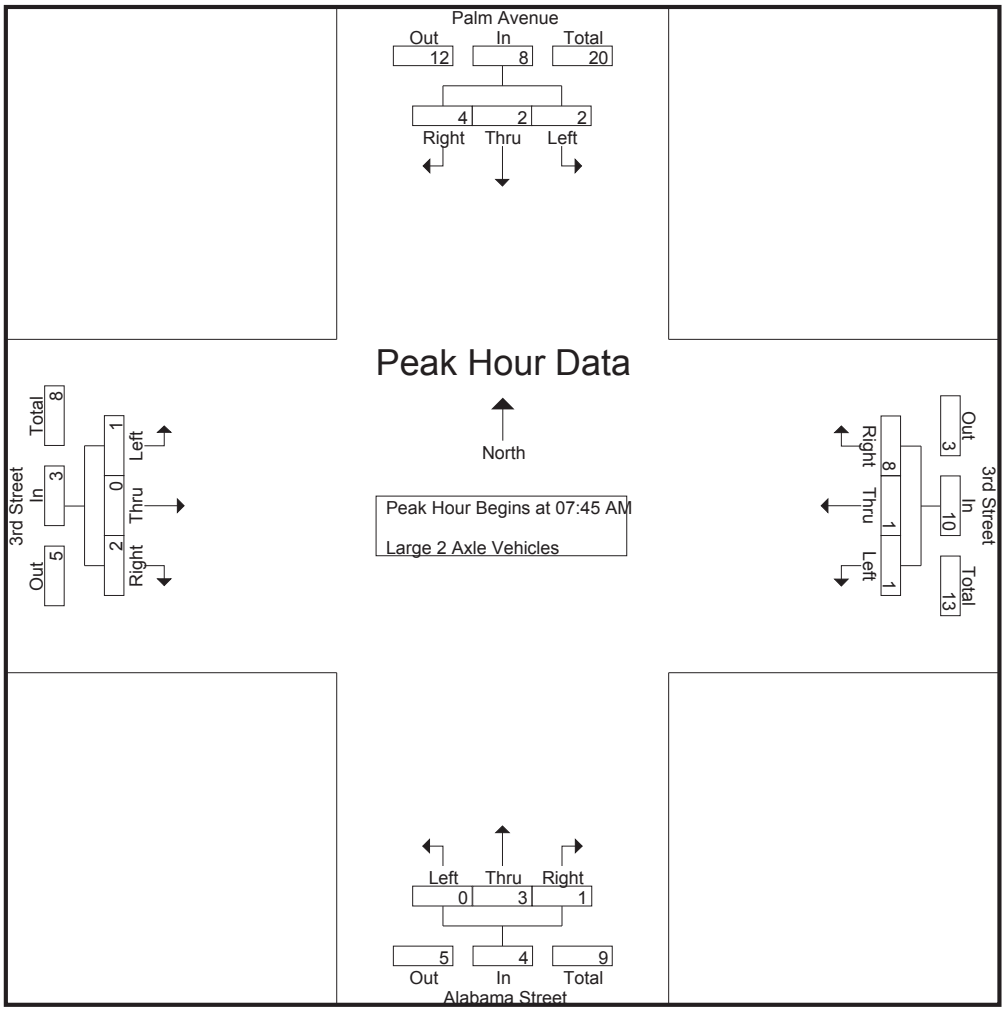

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	1	1	0	**1**	1	2	0	**1**	**1**	**2**	0	0	0	0
+15 mins.	0	**1**	0	1	0	0	2	2	0	0	0	0	0	0	0	0
+30 mins.	**2**	0	1	**3**	0	0	**4**	**4**	0	1	0	1	**1**	0	**1**	**2**
+45 mins.	0	1	**2**	3	**1**	0	1	2	0	1	0	1	0	0	1	1
Total Volume	2	2	4	8	1	1	8	10	0	3	1	4	1	0	2	3
% App. Total	25	25	50		10	10	80		0	75	25		33.3	0	66.7	
PHF	.250	.500	.500	.667	.250	.250	.500	.625	.000	.750	.250	.500	.250	.000	.500	.375

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City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd AM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	0	0	1	1	4	7	0	11	3	0	4	7	20
07:15 AM	0	1	0	1	0	0	0	0	2	5	0	7	5	0	4	9	17
07:30 AM	0	3	0	3	0	0	1	1	1	10	0	11	2	0	5	7	22
07:45 AM	0	1	1	2	0	0	0	0	3	9	0	12	0	0	1	1	15
Total	0	6	1	7	0	0	2	2	10	31	0	41	10	0	14	24	74
08:00 AM	0	3	0	3	0	0	1	1	0	4	0	4	4	0	3	7	15
08:15 AM	0	2	0	2	0	0	1	1	2	1	0	3	5	0	3	8	14
08:30 AM	1	6	2	9	0	1	0	1	2	6	0	8	1	0	3	4	22
08:45 AM	0	1	0	1	0	0	1	1	1	4	0	5	3	0	3	6	13
Total	1	12	2	15	0	1	3	4	5	15	0	20	13	0	12	25	64
Grand Total	1	18	3	22	0	1	5	6	15	46	0	61	23	0	26	49	138
Apprch %	4.5	81.8	13.6		0	16.7	83.3		24.6	75.4	0		46.9	0	53.1		
Total %	0.7	13	2.2	15.9	0	0.7	3.6	4.3	10.9	33.3	0	44.2	16.7	0	18.8	35.5	

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	1	1	2	0	0	0	0	**3**	**9**	0	**12**	0	0	1	1	15
08:00 AM	0	3	0	3	0	0	**1**	**1**	0	4	0	4	4	0	**3**	7	15
08:15 AM	0	2	0	2	0	0	1	1	2	1	0	3	**5**	0	3	**8**	14
08:30 AM	**1**	**6**	**2**	**9**	0	**1**	0	1	2	6	0	8	1	0	3	4	**22**
Total Volume	1	12	3	16	0	1	2	3	7	20	0	27	10	0	10	20	66
% App. Total	6.2	75	18.8		0	33.3	66.7		25.9	74.1	0		50	0	50		
PHF	.250	.500	.375	.444	.000	.250	.500	.750	.583	.556	.000	.563	.500	.000	.833	.625	.750

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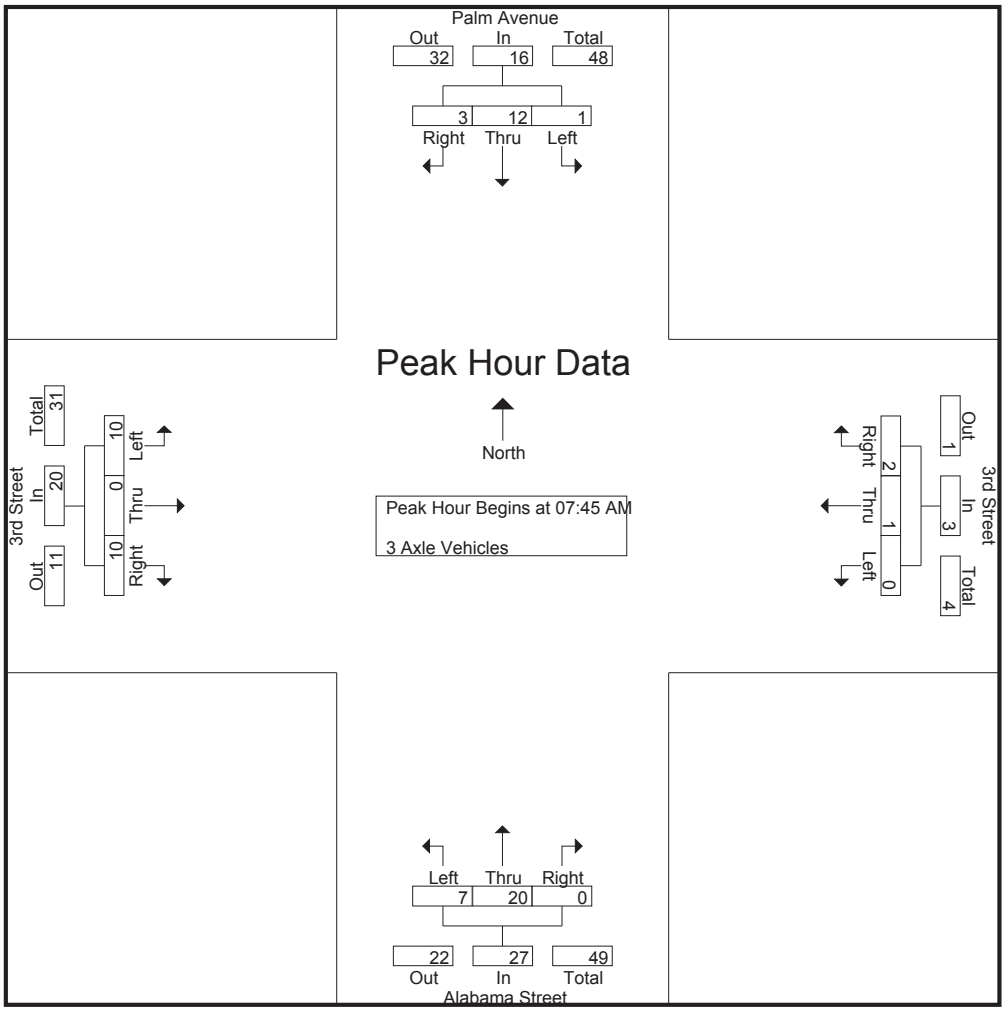

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	1	1	2	0	0	0	0	**3**	**9**	0	**12**	0	0	1	1
+15 mins.	0	3	0	3	0	0	**1**	**1**	0	4	0	4	4	0	**3**	7
+30 mins.	0	2	0	2	0	0	1	1	2	1	0	3	**5**	0	3	**8**
+45 mins.	**1**	**6**	**2**	**9**	0	**1**	0	1	2	6	0	8	1	0	3	4
Total Volume	1	12	3	16	0	1	2	3	7	20	0	27	10	0	10	20
% App. Total	6.2	75	18.8		0	33.3	66.7		25.9	74.1	0		50	0	50	
PHF	.250	.500	.375	.444	.000	.250	.500	.750	.583	.556	.000	.563	.500	.000	.833	.625

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City of Highland
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Groups Printed- 4+ Axle Trucks

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	1	1	3	0	0	0	0	0	3	0	3	1	0	4	5	11
07:15 AM	1	1	0	2	0	0	0	0	4	3	0	7	4	0	2	6	15
07:30 AM	1	3	2	6	0	0	1	1	4	2	0	6	2	0	1	3	16
07:45 AM	1	5	0	6	0	0	2	2	2	5	0	7	2	0	3	5	20
Total	4	10	3	17	0	0	3	3	10	13	0	23	9	0	10	19	62
08:00 AM	0	1	0	1	0	0	0	0	5	3	0	8	2	0	1	3	12
08:15 AM	1	4	3	8	0	0	0	0	4	4	0	8	0	0	0	0	16
08:30 AM	3	2	2	7	0	0	3	3	1	2	0	3	1	0	1	2	15
08:45 AM	2	3	3	8	0	0	0	0	7	3	0	10	2	0	2	4	22
Total	6	10	8	24	0	0	3	3	17	12	0	29	5	0	4	9	65
Grand Total	10	20	11	41	0	0	6	6	27	25	0	52	14	0	14	28	127
Apprch %	24.4	48.8	26.8		0	0	100		51.9	48.1	0		50	0	50		
Total %	7.9	15.7	8.7	32.3	0	0	4.7	4.7	21.3	19.7	0	40.9	11	0	11	22	

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	1	**5**	0	6	0	0	2	2	2	**5**	0	7	**2**	0	**3**	**5**	**20**
08:00 AM	0	1	0	1	0	0	0	0	**5**	3	0	**8**	2	0	1	3	12
08:15 AM	1	4	**3**	**8**	0	0	0	0	4	4	0	8	0	0	0	0	16
08:30 AM	**3**	2	2	7	0	0	**3**	**3**	1	2	0	3	1	0	1	2	15
Total Volume	5	12	5	22	0	0	5	5	12	14	0	26	5	0	5	10	63
% App. Total	22.7	54.5	22.7		0	0	100		46.2	53.8	0		50	0	50		
PHF	.417	.600	.417	.688	.000	.000	.417	.417	.600	.700	.000	.813	.625	.000	.417	.500	.788

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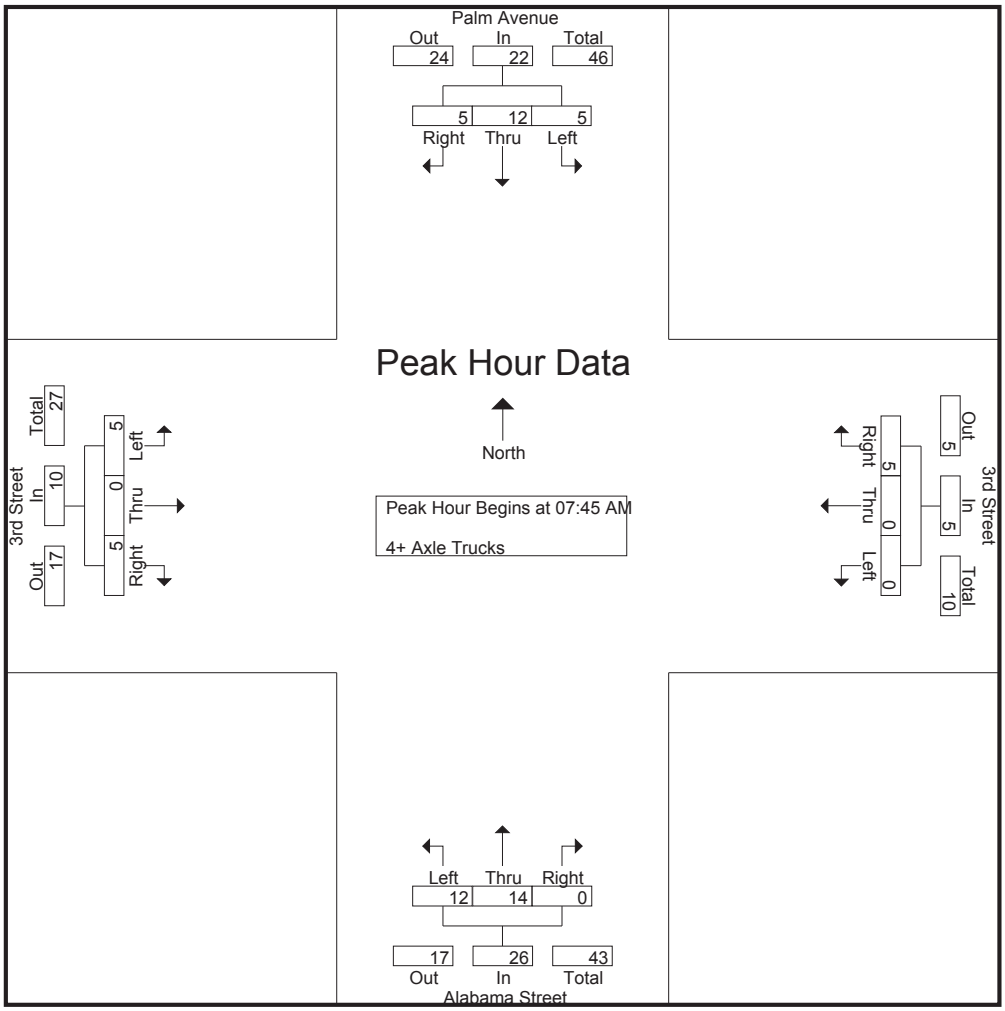

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	1	**5**	0	6	0	0	2	2	2	**5**	0	7	**2**	0	**3**	**5**
+15 mins.	0	1	0	1	0	0	0	0	**5**	3	0	**8**	2	0	1	3
+30 mins.	1	4	**3**	**8**	0	0	0	0	4	4	0	8	0	0	0	0
+45 mins.	**3**	2	2	7	0	0	**3**	**3**	1	2	0	3	1	0	1	2
Total Volume	5	12	5	22	0	0	5	5	12	14	0	26	5	0	5	10
% App. Total	22.7	54.5	22.7		0	0	100		46.2	53.8	0		50	0	50	
PHF	.417	.600	.417	.688	.000	.000	.417	.417	.600	.700	.000	.813	.625	.000	.417	.500

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City of Highland
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Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	2	94	17	113	1	1	5	7	33	189	0	222	78	1	67	146	488
04:15 PM	0	83	28	111	1	4	1	6	38	170	2	210	70	3	64	137	464
04:30 PM	1	86	16	103	2	1	1	4	28	155	3	186	89	5	65	159	452
04:45 PM	3	115	20	138	1	1	4	6	47	189	3	239	96	5	60	161	544
Total	6	378	81	465	5	7	11	23	146	703	8	857	333	14	256	603	1948
05:00 PM	2	81	21	104	3	1	7	11	28	167	2	197	93	6	85	184	496
05:15 PM	0	85	20	105	3	1	3	7	25	185	1	211	125	14	114	253	576
05:30 PM	1	95	14	110	1	0	5	6	44	208	0	252	93	5	75	173	541
05:45 PM	2	98	19	119	1	2	2	5	25	162	0	187	80	0	65	145	456
Total	5	359	74	438	8	4	17	29	122	722	3	847	391	25	339	755	2069
Grand Total	11	737	155	903	13	11	28	52	268	1425	11	1704	724	39	595	1358	4017
Apprch %	1.2	81.6	17.2		25	21.2	53.8		15.7	83.6	0.6		53.3	2.9	43.8		
Total %	0.3	18.3	3.9	22.5	0.3	0.3	0.7	1.3	6.7	35.5	0.3	42.4	18	1	14.8	33.8	
Passenger Vehicles	6	720	135	861	8	11	24	43	223	1395	10	1628	706	36	557	1299	3831
% Passenger Vehicles	54.5	97.7	87.1	95.3	61.5	100	85.7	82.7	83.2	97.9	90.9	95.5	97.5	92.3	93.6	95.7	95.4
Large 2 Axle Vehicles	2	2	5	9	4	0	2	6	5	6	1	12	2	3	5	10	37
% Large 2 Axle Vehicles	18.2	0.3	3.2	1	30.8	0	7.1	11.5	1.9	0.4	9.1	0.7	0.3	7.7	0.8	0.7	0.9
3 Axle Vehicles	3	4	5	12	1	0	1	2	17	4	0	21	3	0	18	21	56
% 3 Axle Vehicles	27.3	0.5	3.2	1.3	7.7	0	3.6	3.8	6.3	0.3	0	1.2	0.4	0	3	1.5	1.4
4+ Axle Trucks	0	11	10	21	0	0	1	1	23	20	0	43	13	0	15	28	93
% 4+ Axle Trucks	0	1.5	6.5	2.3	0	0	3.6	1.9	8.6	1.4	0	2.5	1.8	0	2.5	2.1	2.3

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**3**	**115**	20	**138**	1	**1**	4	6	**47**	189	**3**	239	96	5	60	161	544
05:00 PM	2	81	**21**	104	**3**	1	**7**	**11**	28	167	2	197	93	6	85	184	496
05:15 PM	0	85	20	105	3	1	3	7	25	185	1	211	**125**	**14**	**114**	**253**	**576**
05:30 PM	1	95	14	110	1	0	5	6	44	**208**	0	**252**	93	5	75	173	541
Total Volume	6	376	75	457	8	3	19	30	144	749	6	899	407	30	334	771	2157
% App. Total	1.3	82.3	16.4		26.7	10	63.3		16	83.3	0.7		52.8	3.9	43.3		
PHF	.500	.817	.893	.828	.667	.750	.679	.682	.766	.900	.500	.892	.814	.536	.732	.762	.936

Counts Unlimited
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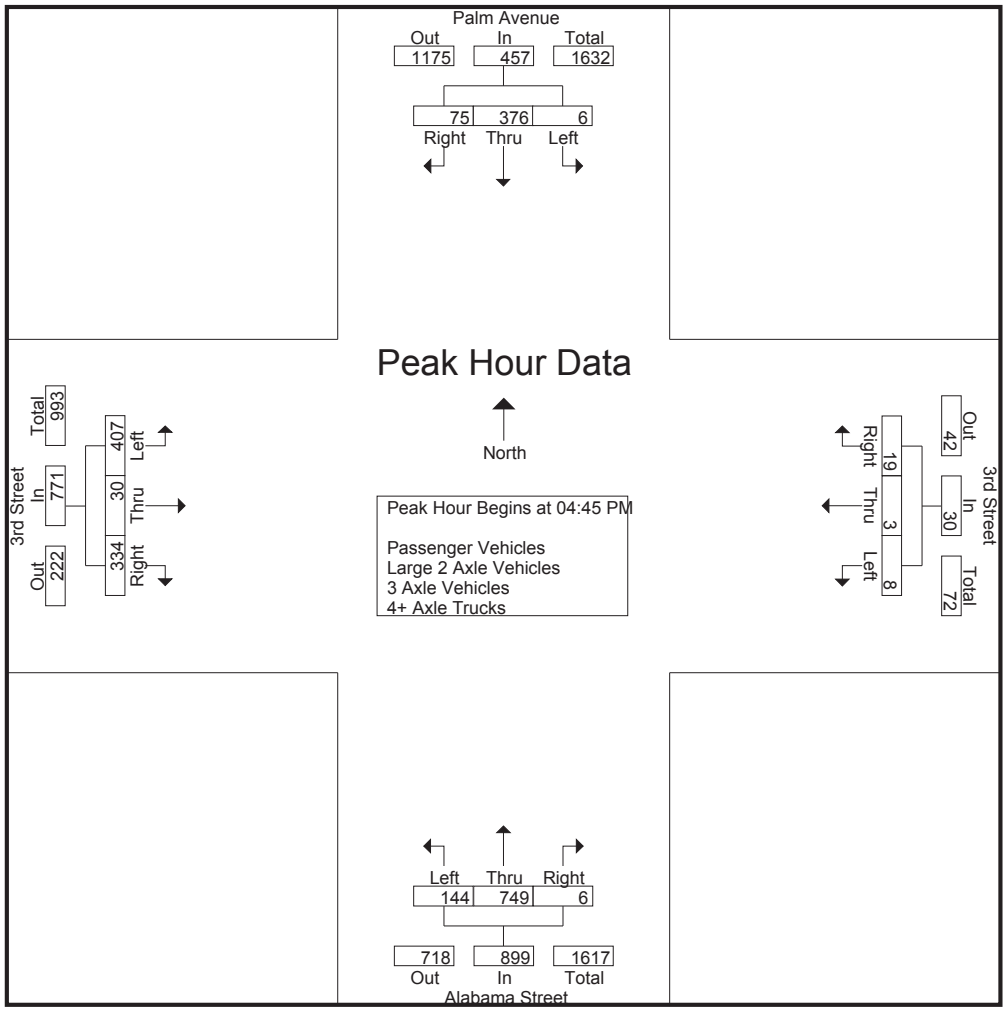
City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	2	94	17	113	1	**1**	4	6	**47**	189	**3**	239	96	5	60	161
+15 mins.	0	83	**28**	111	**3**	1	**7**	**11**	28	167	2	197	93	6	85	184
+30 mins.	1	86	16	103	3	1	3	7	25	185	1	211	**125**	**14**	**114**	**253**
+45 mins.	**3**	**115**	20	**138**	1	0	5	6	44	**208**	0	**252**	93	5	75	173
Total Volume	6	378	81	465	8	3	19	30	144	749	6	899	407	30	334	771
% App. Total	1.3	81.3	17.4		26.7	10	63.3		16	83.3	0.7		52.8	3.9	43.3	
PHF	.500	.822	.723	.842	.667	.750	.679	.682	.766	.900	.500	.892	.814	.536	.732	.762

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City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	93	13	107	0	1	4	5	29	185	0	214	75	0	63	138	464
04:15 PM	0	81	24	105	0	4	1	5	35	165	2	202	68	3	60	131	443
04:30 PM	1	82	12	95	0	1	1	2	23	148	2	173	86	5	63	154	424
04:45 PM	1	111	20	132	1	1	3	5	40	186	3	229	93	5	55	153	519
Total	3	367	69	439	1	7	9	17	127	684	7	818	322	13	241	576	1850
05:00 PM	0	80	19	99	3	1	6	10	21	163	2	186	92	5	79	176	471
05:15 PM	0	84	18	102	3	1	2	6	20	181	1	202	123	14	107	244	554
05:30 PM	1	93	13	107	0	0	5	5	35	207	0	242	92	4	74	170	524
05:45 PM	2	96	16	114	1	2	2	5	20	160	0	180	77	0	56	133	432
Total	3	353	66	422	7	4	15	26	96	711	3	810	384	23	316	723	1981
Grand Total	6	720	135	861	8	11	24	43	223	1395	10	1628	706	36	557	1299	3831
Apprch %	0.7	83.6	15.7		18.6	25.6	55.8		13.7	85.7	0.6		54.3	2.8	42.9		
Total %	0.2	18.8	3.5	22.5	0.2	0.3	0.6	1.1	5.8	36.4	0.3	42.5	18.4	0.9	14.5	33.9	

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**1**	**111**	**20**	**132**	1	**1**	3	5	**40**	186	**3**	229	93	5	55	153	519
05:00 PM	0	80	19	99	**3**	1	**6**	**10**	21	163	2	186	92	5	79	176	471
05:15 PM	0	84	18	102	3	1	2	6	20	181	1	202	**123**	**14**	**107**	**244**	**554**
05:30 PM	1	93	13	107	0	0	5	5	35	**207**	0	**242**	92	4	74	170	524
Total Volume	2	368	70	440	7	3	16	26	116	737	6	859	400	28	315	743	2068
% App. Total	0.5	83.6	15.9		26.9	11.5	61.5		13.5	85.8	0.7		53.8	3.8	42.4		
PHF	.500	.829	.875	.833	.583	.750	.667	.650	.725	.890	.500	.887	.813	.500	.736	.761	.933

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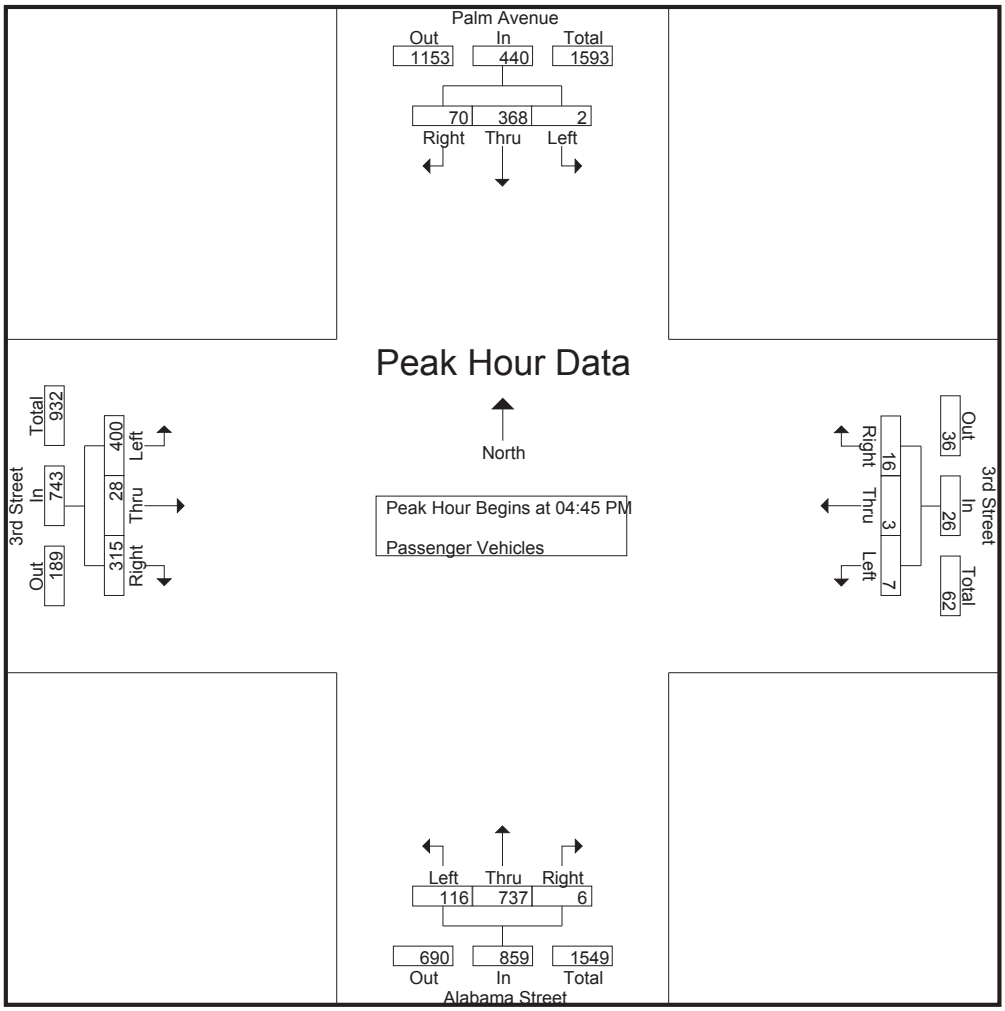
City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	**1**	**111**	**20**	**132**	1	**1**	3	5	**40**	186	**3**	229	93	5	55	153
+15 mins.	0	80	19	99	**3**	1	**6**	**10**	21	163	2	186	92	5	79	176
+30 mins.	0	84	18	102	3	1	2	6	20	181	1	202	**123**	**14**	**107**	**244**
+45 mins.	1	93	13	107	0	0	5	5	35	**207**	0	**242**	92	4	74	170
Total Volume	2	368	70	440	7	3	16	26	116	737	6	859	400	28	315	743
% App. Total	0.5	83.6	15.9		26.9	11.5	61.5		13.5	85.8	0.7		53.8	3.8	42.4	
PHF	.500	.829	.875	.833	.583	.750	.667	.650	.725	.890	.500	.887	.813	.500	.736	.761

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City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	0	1	2	1	0	0	1	0	0	0	0	0	1	0	1	4
04:15 PM	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	2
04:30 PM	0	1	1	2	2	0	0	2	1	2	1	4	0	0	1	1	9
04:45 PM	1	0	0	1	0	0	1	1	1	0	0	1	0	0	0	0	3
Total	2	1	3	6	3	0	1	4	2	2	1	5	1	1	1	3	18
05:00 PM	0	0	0	0	0	0	0	0	1	2	0	3	0	1	1	2	5
05:15 PM	0	0	1	1	0	0	1	1	1	1	0	2	1	0	1	2	6
05:30 PM	0	0	0	0	1	0	0	1	1	0	0	1	0	1	1	2	4
05:45 PM	0	1	1	2	0	0	0	0	0	1	0	1	0	0	1	1	4
Total	0	1	2	3	1	0	1	2	3	4	0	7	1	2	4	7	19
Grand Total	2	2	5	9	4	0	2	6	5	6	1	12	2	3	5	10	37
Apprch %	22.2	22.2	55.6		66.7	0	33.3		41.7	50	8.3		20	30	50		
Total %	5.4	5.4	13.5	24.3	10.8	0	5.4	16.2	13.5	16.2	2.7	32.4	5.4	8.1	13.5	27	

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**1**	0	0	**1**	0	0	**1**	**1**	**1**	0	0	1	0	0	0	0	3
05:00 PM	0	0	0	0	0	0	0	0	1	**2**	0	**3**	0	**1**	**1**	**2**	5
05:15 PM	0	0	**1**	1	0	0	1	1	1	1	0	2	**1**	0	1	2	**6**
05:30 PM	0	0	0	0	**1**	0	0	1	1	0	0	1	0	1	1	2	4
Total Volume	1	0	1	2	1	0	2	3	4	3	0	7	1	2	3	6	18
% App. Total	50	0	50		33.3	0	66.7		57.1	42.9	0		16.7	33.3	50		
PHF	.250	.000	.250	.500	.250	.000	.500	.750	1.00	.375	.000	.583	.250	.500	.750	.750	.750

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City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
Start Date : 5/1/2018
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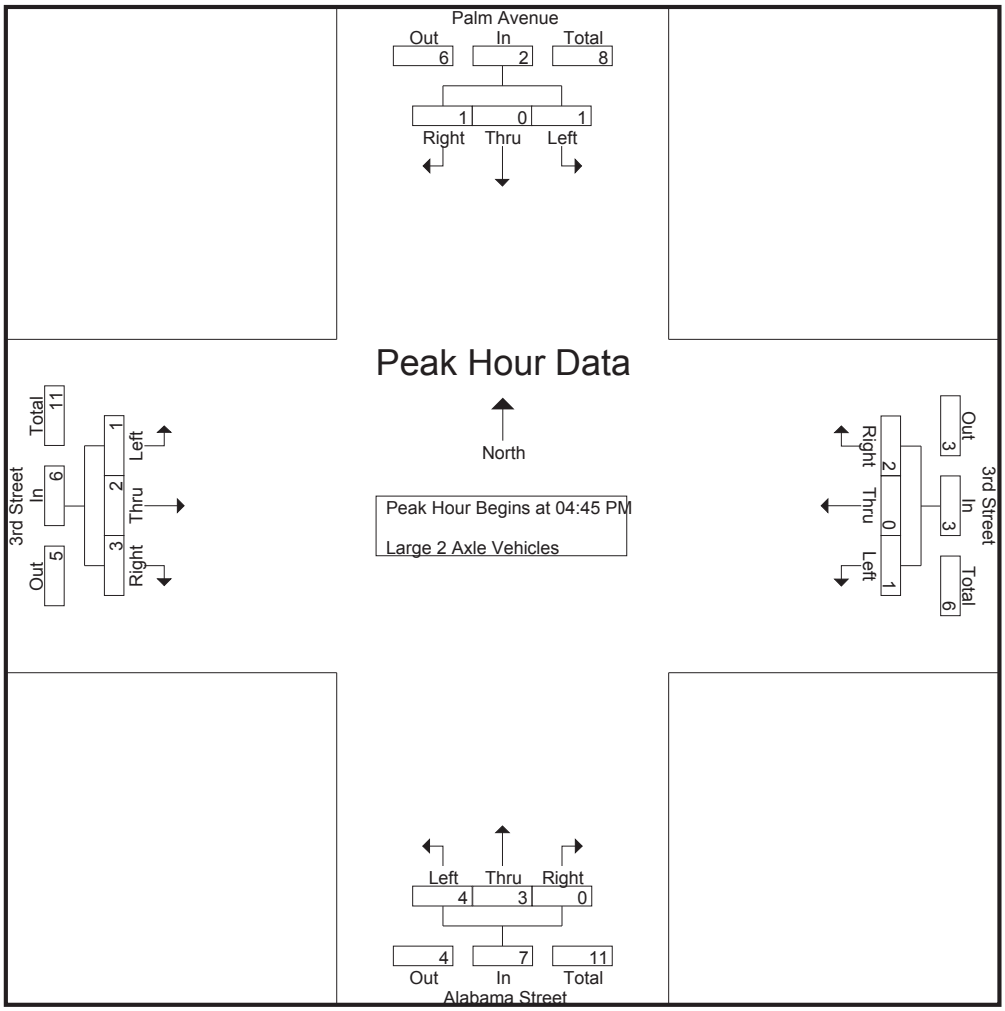

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	**1**	0	0	**1**	0	0	**1**	**1**	**1**	0	0	1	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	1	**2**	0	**3**	0	**1**	**1**	**2**
+30 mins.	0	0	**1**	1	0	0	1	1	1	1	0	2	**1**	0	1	2
+45 mins.	0	0	0	0	**1**	0	0	1	1	0	0	1	0	1	1	2
Total Volume	1	0	1	2	1	0	2	3	4	3	0	7	1	2	3	6
% App. Total	50	0	50		33.3	0	66.7		57.1	42.9	0		16.7	33.3	50	
PHF	.250	.000	.250	.500	.250	.000	.500	.750	1.000	.375	.000	.583	.250	.500	.750	.750

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City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	3	3	0	0	0	0	3	0	0	3	0	0	1	1	7
04:15 PM	0	0	1	1	1	0	0	1	3	1	0	4	0	0	2	2	8
04:30 PM	0	2	0	2	0	0	0	0	1	1	0	2	0	0	0	0	4
04:45 PM	1	1	0	2	0	0	0	0	1	0	0	1	1	0	2	3	6
Total	1	3	4	8	1	0	0	1	8	2	0	10	1	0	5	6	25
05:00 PM	2	1	0	3	0	0	1	1	2	1	0	3	1	0	3	4	11
05:15 PM	0	0	1	1	0	0	0	0	2	1	0	3	0	0	5	5	9
05:30 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	4
05:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	1	0	5	6	7
Total	2	1	1	4	0	0	1	1	9	2	0	11	2	0	13	15	31
Grand Total	3	4	5	12	1	0	1	2	17	4	0	21	3	0	18	21	56
Apprch %	25	33.3	41.7		50	0	50		81	19	0		14.3	0	85.7		
Total %	5.4	7.1	8.9	21.4	1.8	0	1.8	3.6	30.4	7.1	0	37.5	5.4	0	32.1	37.5	

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	1	**1**	0	2	0	0	0	0	1	0	0	1	**1**	0	2	3	6
05:00 PM	**2**	1	0	**3**	0	0	**1**	**1**	2	**1**	0	3	1	0	3	4	**11**
05:15 PM	0	0	**1**	1	0	0	0	0	2	1	0	3	0	0	**5**	**5**	9
05:30 PM	0	0	0	0	0	0	0	0	**4**	0	0	**4**	0	0	0	0	4
Total Volume	3	2	1	6	0	0	1	1	9	2	0	11	2	0	10	12	30
% App. Total	50	33.3	16.7		0	0	100		81.8	18.2	0		16.7	0	83.3		
PHF	.375	.500	.250	.500	.000	.000	.250	.250	.563	.500	.000	.688	.500	.000	.500	.600	.682

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City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
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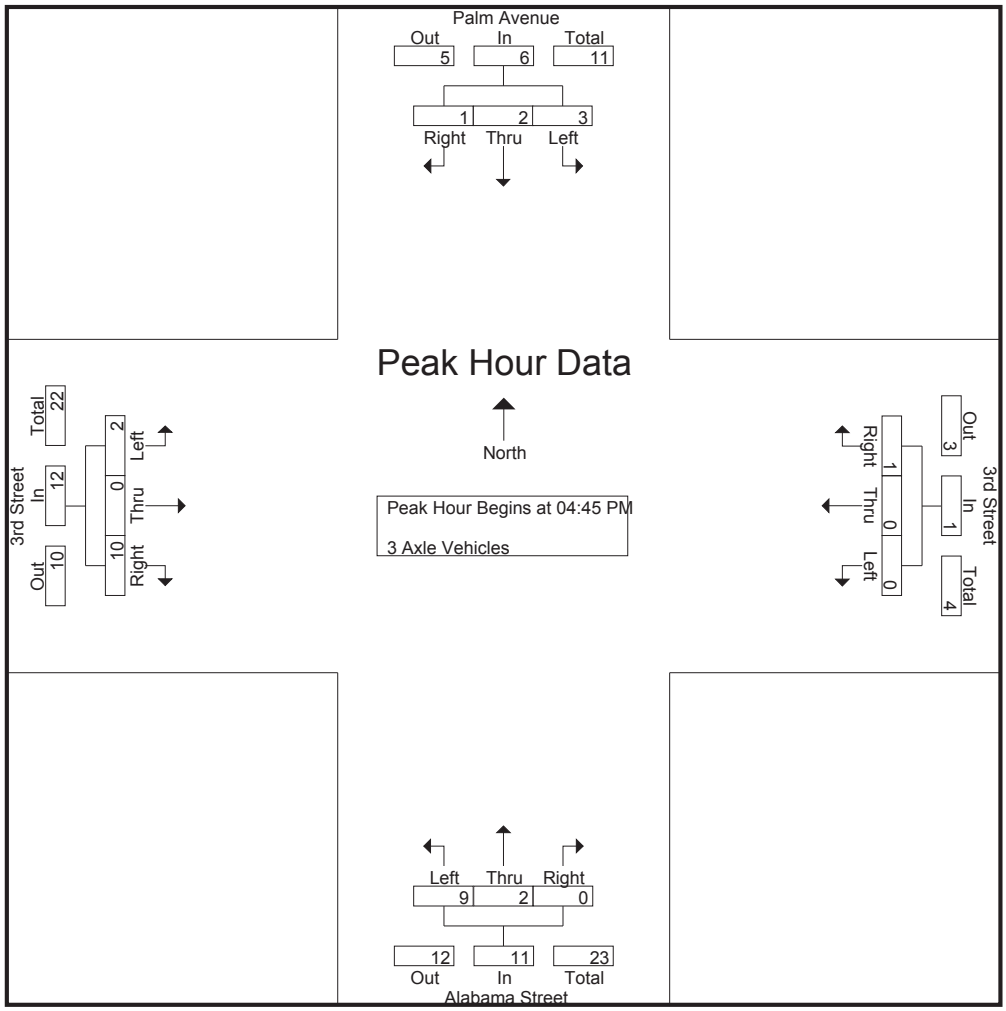

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	1	**1**	0	2	0	0	0	0	1	0	0	1	**1**	0	2	3
+15 mins.	**2**	1	0	**3**	0	0	**1**	**1**	2	**1**	0	3	1	0	3	4
+30 mins.	0	0	**1**	1	0	0	0	0	2	1	0	3	0	0	**5**	**5**
+45 mins.	0	0	0	0	0	0	0	0	**4**	0	0	**4**	0	0	0	0
Total Volume	3	2	1	6	0	0	1	1	9	2	0	11	2	0	10	12
% App. Total	50	33.3	16.7		0	0	100		81.8	18.2	0		16.7	0	83.3	
PHF	.375	.500	.250	.500	.000	.000	.250	.250	.563	.500	.000	.688	.500	.000	.500	.600

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City of Highland
N/S: Palm Avenue/Alabama Street
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Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
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Groups Printed- 4+ Axle Trucks

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	0	1	0	0	1	1	1	4	0	5	3	0	3	6	13
04:15 PM	0	2	2	4	0	0	0	0	0	4	0	4	1	0	2	3	11
04:30 PM	0	1	3	4	0	0	0	0	3	4	0	7	3	0	1	4	15
04:45 PM	0	3	0	3	0	0	0	0	5	3	0	8	2	0	3	5	16
Total	0	7	5	12	0	0	1	1	9	15	0	24	9	0	9	18	55
05:00 PM	0	0	2	2	0	0	0	0	4	1	0	5	0	0	2	2	9
05:15 PM	0	1	0	1	0	0	0	0	2	2	0	4	1	0	1	2	7
05:30 PM	0	2	1	3	0	0	0	0	4	1	0	5	1	0	0	1	9
05:45 PM	0	1	2	3	0	0	0	0	4	1	0	5	2	0	3	5	13
Total	0	4	5	9	0	0	0	0	14	5	0	19	4	0	6	10	38
Grand Total	0	11	10	21	0	0	1	1	23	20	0	43	13	0	15	28	93
Apprch %	0	52.4	47.6		0	0	100		53.5	46.5	0		46.4	0	53.6		
Total %	0	11.8	10.8	22.6	0	0	1.1	1.1	24.7	21.5	0	46.2	14	0	16.1	30.1	

	Palm Avenue Southbound				3rd Street Westbound				Alabama Street Northbound				3rd Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	**3**	0	**3**	0	0	0	0	**5**	**3**	0	**8**	**2**	0	**3**	**5**	**16**
05:00 PM	0	0	**2**	2	0	0	0	0	4	1	0	5	0	0	2	2	9
05:15 PM	0	1	0	1	0	0	0	0	2	2	0	4	1	0	1	2	7
05:30 PM	0	2	1	3	0	0	0	0	4	1	0	5	1	0	0	1	9
Total Volume	0	6	3	9	0	0	0	0	15	7	0	22	4	0	6	10	41
% App. Total	0	66.7	33.3		0	0	0		68.2	31.8	0		40	0	60		
PHF	.000	.500	.375	.750	.000	.000	.000	.000	.750	.583	.000	.688	.500	.000	.500	.500	.641

Counts Unlimited
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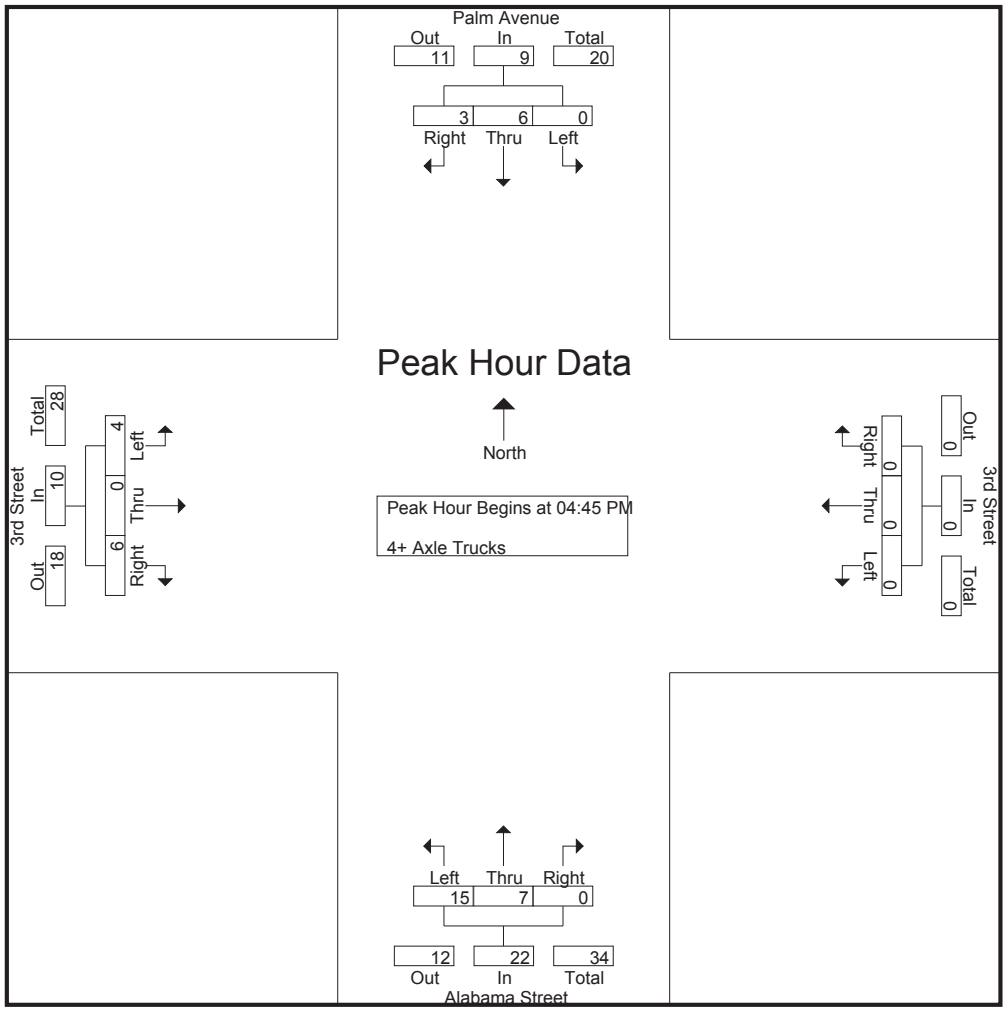
City of Highland
N/S: Palm Avenue/Alabama Street
E/W: 3rd Street
Weather: Clear

File Name : 08_HLD_Palm_Alabama_3rd PM
Site Code : 99918352
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	**3**	0	**3**	0	0	0	0	**5**	**3**	0	**8**	**2**	0	**3**	**5**
+15 mins.	0	0	**2**	2	0	0	0	0	4	1	0	5	0	0	2	2
+30 mins.	0	1	0	1	0	0	0	0	2	2	0	4	1	0	1	2
+45 mins.	0	2	1	3	0	0	0	0	4	1	0	5	1	0	0	1
Total Volume	0	6	3	9	0	0	0	0	15	7	0	22	4	0	6	10
% App. Total	0	66.7	33.3		0	0	0		68.2	31.8	0		40	0	60	
PHF	.000	.500	.375	.750	.000	.000	.000	.000	.750	.583	.000	.688	.500	.000	.500	.500

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City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
06:00 AM	19	6	25	101	3	104	1	67	68	197
06:15 AM	10	9	19	97	4	101	1	56	57	177
06:30 AM	19	6	25	124	5	129	1	129	130	284
06:45 AM	28	10	38	182	7	189	4	88	92	319
Total	76	31	107	504	19	523	7	340	347	977
07:00 AM	20	8	28	203	12	215	3	125	128	371
07:15 AM	33	21	54	230	7	237	7	103	110	401
07:30 AM	37	23	60	224	16	240	6	102	108	408
07:45 AM	38	12	50	266	26	292	4	117	121	463
Total	128	64	192	923	61	984	20	447	467	1643
08:00 AM	43	27	70	213	20	233	5	113	118	421
08:15 AM	27	15	42	206	25	231	6	111	117	390
08:30 AM	28	15	43	167	30	197	10	127	137	377
08:45 AM	23	14	37	145	26	171	2	126	128	336
Total	121	71	192	731	101	832	23	477	500	1524
Grand Total	325	166	491	2158	181	2339	50	1264	1314	4144
Apprch %	66.2	33.8		92.3	7.7		3.8	96.2		
Total %	7.8	4	11.8	52.1	4.4	56.4	1.2	30.5	31.7	
Passenger Vehicles	320	165	485	2041	172	2213	48	1047	1095	3793
% Passenger Vehicles	98.5	99.4	98.8	94.6	95	94.6	96	82.8	83.3	91.5
Large 2 Axle Vehicles	5	1	6	40	4	44	1	50	51	101
% Large 2 Axle Vehicles										
3 Axle Vehicles	0	0	0	26	3	29	1	94	95	124
% 3 Axle Vehicles	0	0	0	1.2	1.7	1.2	2	7.4	7.2	3
4+ Axle Trucks	0	0	0	51	2	53	0	73	73	126
% 4+ Axle Trucks	0	0	0	2.4	1.1	2.3	0	5.8	5.6	3

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	33	21	54	230	7	237	**7**	103	110	401
07:30 AM	37	23	60	224	16	240	6	102	108	408
07:45 AM	38	12	50	**266**	**26**	**292**	4	**117**	**121**	**463**
08:00 AM	**43**	**27**	**70**	213	20	233	5	113	118	421
Total Volume	151	83	234	933	69	1002	22	435	457	1693
% App. Total	64.5	35.5		93.1	6.9		4.8	95.2		
PHF	.878	.769	.836	.877	.663	.858	.786	.929	.944	.914

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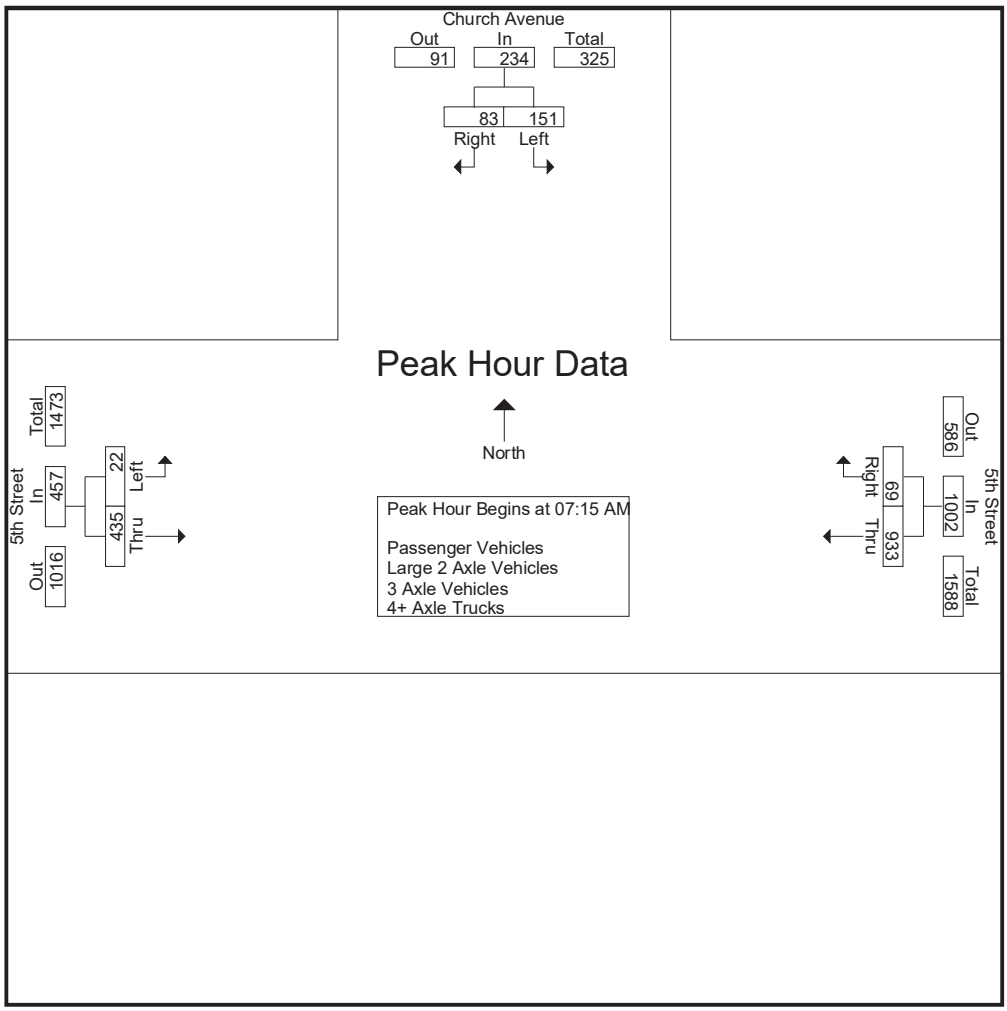
City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			08:00 AM		
+0 mins.	33	21	54	230	7	237	5	113	118
+15 mins.	37	23	60	224	16	240	6	111	117
+30 mins.	38	12	50	**266**	**26**	**292**	**10**	**127**	**137**
+45 mins.	**43**	**27**	**70**	213	20	233	2	126	128
Total Volume	151	83	234	933	69	1002	23	477	500
% App. Total	64.5	35.5		93.1	6.9		4.6	95.4	
PHF	.878	.769	.836	.877	.663	.858	.575	.939	.912

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City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
06:00 AM	19	6	25	96	3	99	1	61	62	186
06:15 AM	10	9	19	95	4	99	1	43	44	162
06:30 AM	19	6	25	120	3	123	1	100	101	249
06:45 AM	28	10	38	170	6	176	4	74	78	292
Total	76	31	107	481	16	497	7	278	285	889
07:00 AM	20	8	28	193	10	203	3	109	112	343
07:15 AM	32	21	53	223	6	229	5	81	86	368
07:30 AM	36	23	59	214	16	230	6	82	88	377
07:45 AM	38	12	50	255	26	281	4	93	97	428
Total	126	64	190	885	58	943	18	365	383	1516
08:00 AM	42	26	68	208	20	228	5	96	101	397
08:15 AM	26	15	41	185	23	208	6	93	99	348
08:30 AM	28	15	43	154	30	184	10	112	122	349
08:45 AM	22	14	36	128	25	153	2	103	105	294
Total	118	70	188	675	98	773	23	404	427	1388
Grand Total	320	165	485	2041	172	2213	48	1047	1095	3793
Apprch %	66	34		92.2	7.8		4.4	95.6		
Total %	8.4	4.4	12.8	53.8	4.5	58.3	1.3	27.6	28.9	

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	32	21	53	223	6	229	5	81	86	368
07:30 AM	36	23	59	214	16	230	**6**	82	88	377
07:45 AM	38	12	50	**255**	**26**	**281**	4	93	97	**428**
08:00 AM	**42**	**26**	**68**	208	20	228	5	**96**	**101**	397
Total Volume	148	82	230	900	68	968	20	352	372	1570
% App. Total	64.3	35.7		93	7		5.4	94.6		
PHF	.881	.788	.846	.882	.654	.861	.833	.917	.921	.917

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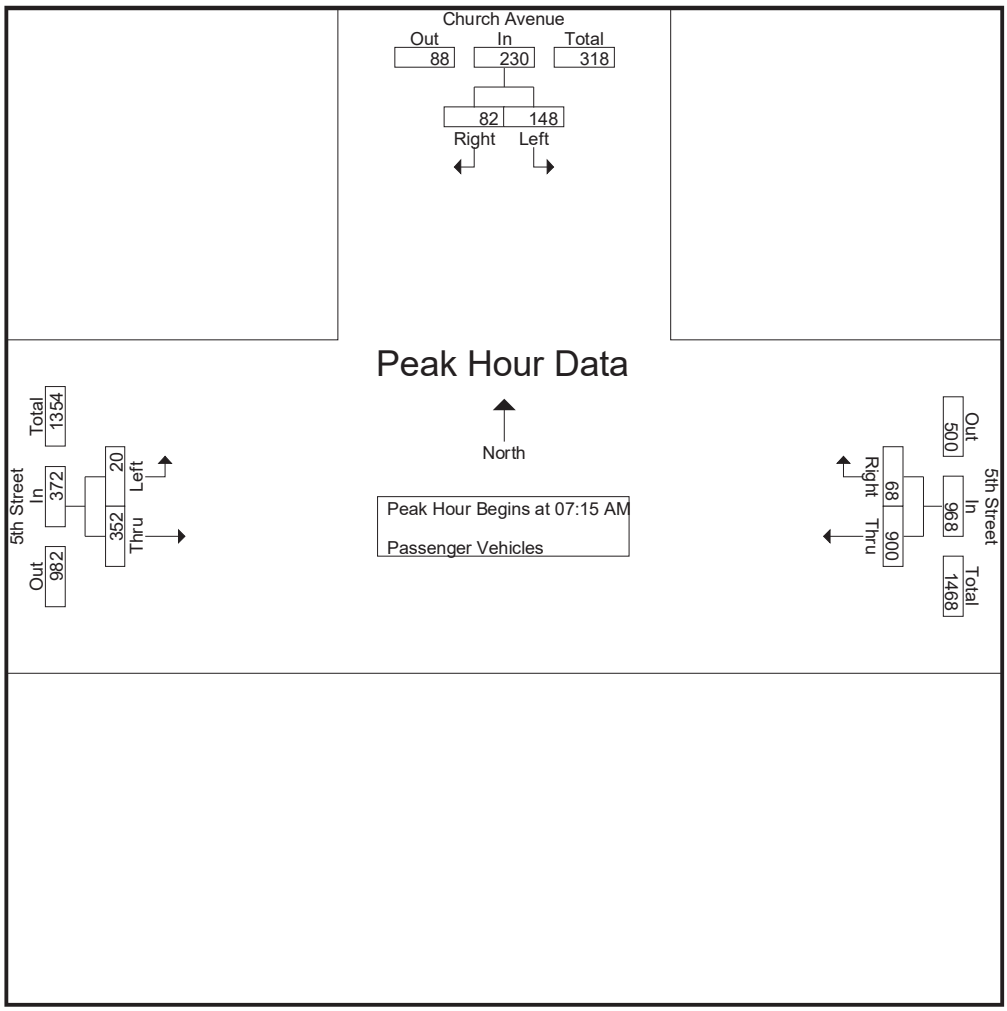
City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	32	21	53	223	6	229	5	81	86
+15 mins.	36	23	59	214	16	230	**6**	82	88
+30 mins.	38	12	50	**255**	**26**	**281**	4	93	97
+45 mins.	**42**	**26**	**68**	208	20	228	5	**96**	**101**
Total Volume	148	82	230	900	68	968	20	352	372
% App. Total	64.3	35.7		93	7		5.4	94.6	
PHF	.881	.788	.846	.882	.654	.861	.833	.917	.921

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City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
06:00 AM	0	0	0	4	0	4	0	1	1	5
06:15 AM	0	0	0	0	0	0	0	7	7	7
06:30 AM	0	0	0	2	1	3	0	6	6	9
06:45 AM	0	0	0	9	0	9	0	3	3	12
Total	0	0	0	15	1	16	0	17	17	33
07:00 AM	0	0	0	4	1	5	0	2	2	7
07:15 AM	1	0	1	3	1	4	1	3	4	9
07:30 AM	1	0	1	3	0	3	0	2	2	6
07:45 AM	0	0	0	5	0	5	0	6	6	11
Total	2	0	2	15	2	17	1	13	14	33
08:00 AM	1	1	2	1	0	1	0	4	4	7
08:15 AM	1	0	1	4	1	5	0	5	5	11
08:30 AM	0	0	0	2	0	2	0	4	4	6
08:45 AM	1	0	1	3	0	3	0	7	7	11
Total	3	1	4	10	1	11	0	20	20	35
Grand Total	5	1	6	40	4	44	1	50	51	101
Apprch %	83.3	16.7		90.9	9.1		2	98		
Total %	5	1	5.9	39.6	4	43.6	1	49.5	50.5	

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	**1**	0	1	3	**1**	4	**1**	3	4	9
07:30 AM	1	0	1	3	0	3	0	2	2	6
07:45 AM	0	0	0	**5**	0	**5**	0	**6**	**6**	**11**
08:00 AM	1	**1**	**2**	1	0	1	0	4	4	7
Total Volume	3	1	4	12	1	13	1	15	16	33
% App. Total	75	25		92.3	7.7		6.2	93.8		
PHF	.750	.250	.500	.600	.250	.650	.250	.625	.667	.750

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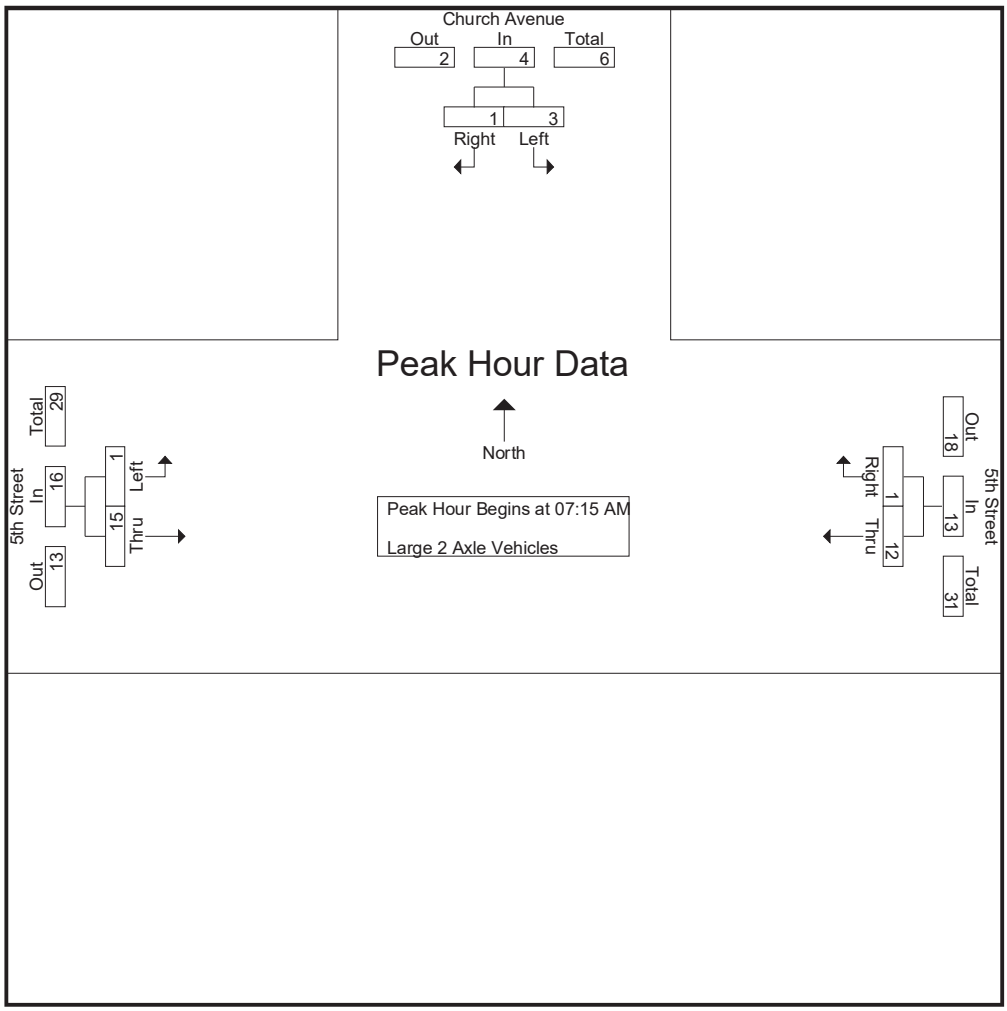
City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	**1**	0	1	3	**1**	4	**1**	3	4
+15 mins.	1	0	1	3	0	3	0	2	2
+30 mins.	0	0	0	**5**	0	**5**	0	**6**	**6**
+45 mins.	1	**1**	**2**	1	0	1	0	4	4
Total Volume	3	1	4	12	1	13	1	15	16
% App. Total	75	25		92.3	7.7		6.2	93.8	
PHF	.750	.250	.500	.600	.250	.650	.250	.625	.667

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City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
06:00 AM	0	0	0	1	0	1	0	0	0	1
06:15 AM	0	0	0	0	0	0	0	3	3	3
06:30 AM	0	0	0	1	1	2	0	10	10	12
06:45 AM	0	0	0	2	1	3	0	5	5	8
Total	0	0	0	4	2	6	0	18	18	24
07:00 AM	0	0	0	1	0	1	0	10	10	11
07:15 AM	0	0	0	3	0	3	1	13	14	17
07:30 AM	0	0	0	2	0	2	0	13	13	15
07:45 AM	0	0	0	1	0	1	0	9	9	10
Total	0	0	0	7	0	7	1	45	46	53
08:00 AM	0	0	0	2	0	2	0	10	10	12
08:15 AM	0	0	0	7	0	7	0	8	8	15
08:30 AM	0	0	0	2	0	2	0	6	6	8
08:45 AM	0	0	0	4	1	5	0	7	7	12
Total	0	0	0	15	1	16	0	31	31	47
Grand Total	0	0	0	26	3	29	1	94	95	124
Apprch %	0	0		89.7	10.3		1.1	98.9		
Total %	0	0	0	21	2.4	23.4	0.8	75.8	76.6	

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	0	0	0	**3**	0	**3**	**1**	**13**	**14**	**17**
07:30 AM	0	0	0	2	0	2	0	13	13	15
07:45 AM	0	0	0	1	0	1	0	9	9	10
08:00 AM	0	0	0	2	0	2	0	10	10	12
Total Volume	0	0	0	8	0	8	1	45	46	54
% App. Total	0	0		100	0		2.2	97.8		
PHF	.000	.000	.000	.667	.000	.667	.250	.865	.821	.794

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City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
Site Code : 99918385
Start Date : 5/1/2018
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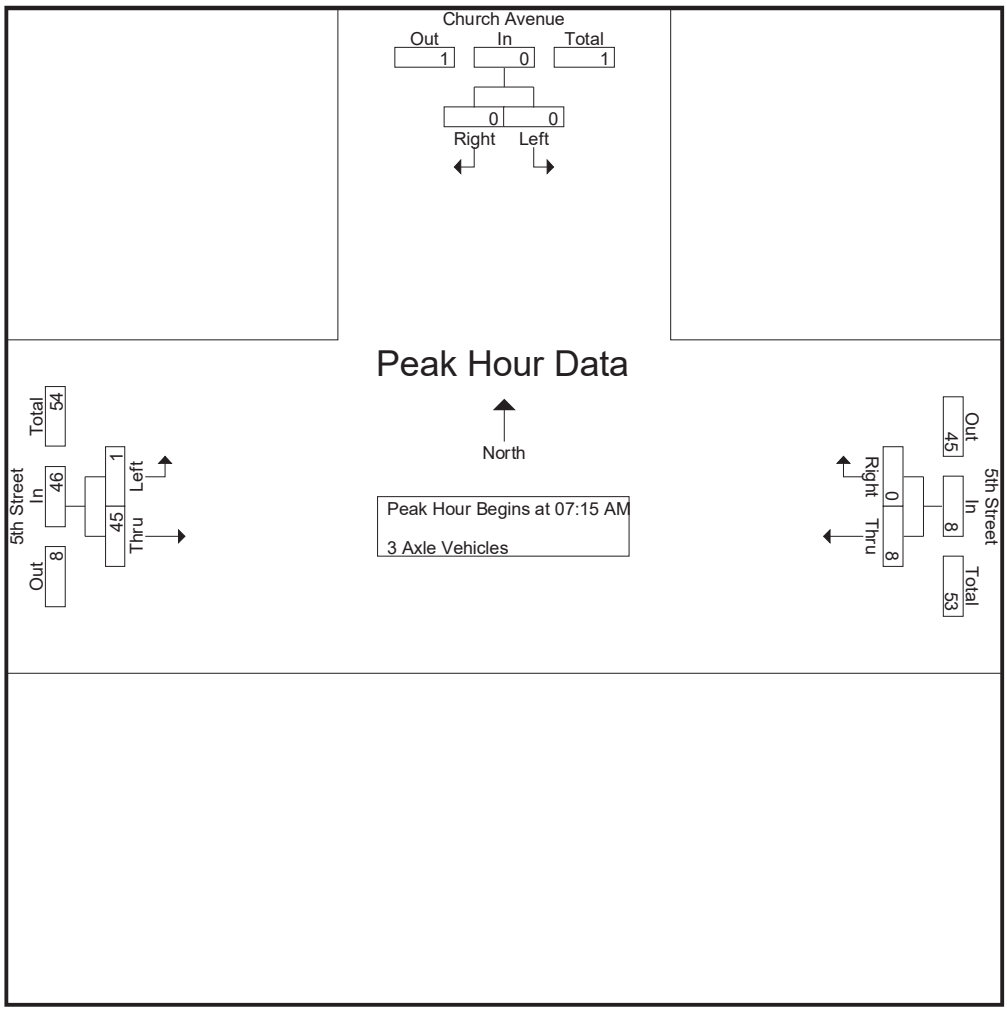

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	0	0	0	**3**	0	**3**	**1**	**13**	**14**
+15 mins.	0	0	0	2	0	2	0	13	13
+30 mins.	0	0	0	1	0	1	0	9	9
+45 mins.	0	0	0	2	0	2	0	10	10
Total Volume	0	0	0	8	0	8	1	45	46
% App. Total	0	0		100	0		2.2	97.8	
PHF	.000	.000	.000	.667	.000	.667	.250	.865	.821

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City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
06:00 AM	0	0	0	0	0	0	0	5	5	5
06:15 AM	0	0	0	2	0	2	0	3	3	5
06:30 AM	0	0	0	1	0	1	0	13	13	14
06:45 AM	0	0	0	1	0	1	0	6	6	7
Total	0	0	0	4	0	4	0	27	27	31
07:00 AM	0	0	0	5	1	6	0	4	4	10
07:15 AM	0	0	0	1	0	1	0	6	6	7
07:30 AM	0	0	0	5	0	5	0	5	5	10
07:45 AM	0	0	0	5	0	5	0	9	9	14
Total	0	0	0	16	1	17	0	24	24	41
08:00 AM	0	0	0	2	0	2	0	3	3	5
08:15 AM	0	0	0	10	1	11	0	5	5	16
08:30 AM	0	0	0	9	0	9	0	5	5	14
08:45 AM	0	0	0	10	0	10	0	9	9	19
Total	0	0	0	31	1	32	0	22	22	54
Grand Total	0	0	0	51	2	53	0	73	73	126
Apprch %	0	0		96.2	3.8		0	100		
Total %	0	0	0	40.5	1.6	42.1	0	57.9	57.9	

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	0	0	0	1	0	1	0	6	6	7
07:30 AM	0	0	0	**5**	0	**5**	0	5	5	10
07:45 AM	0	0	0	5	0	5	0	**9**	**9**	**14**
08:00 AM	0	0	0	2	0	2	0	3	3	5
Total Volume	0	0	0	13	0	13	0	23	23	36
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.650	.000	.650	.000	.639	.639	.643

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City of Highland
N/S: Church Avenue
E/W: 5th Street
Weather: Clear

File Name : 79_HLD_Church_5th AM
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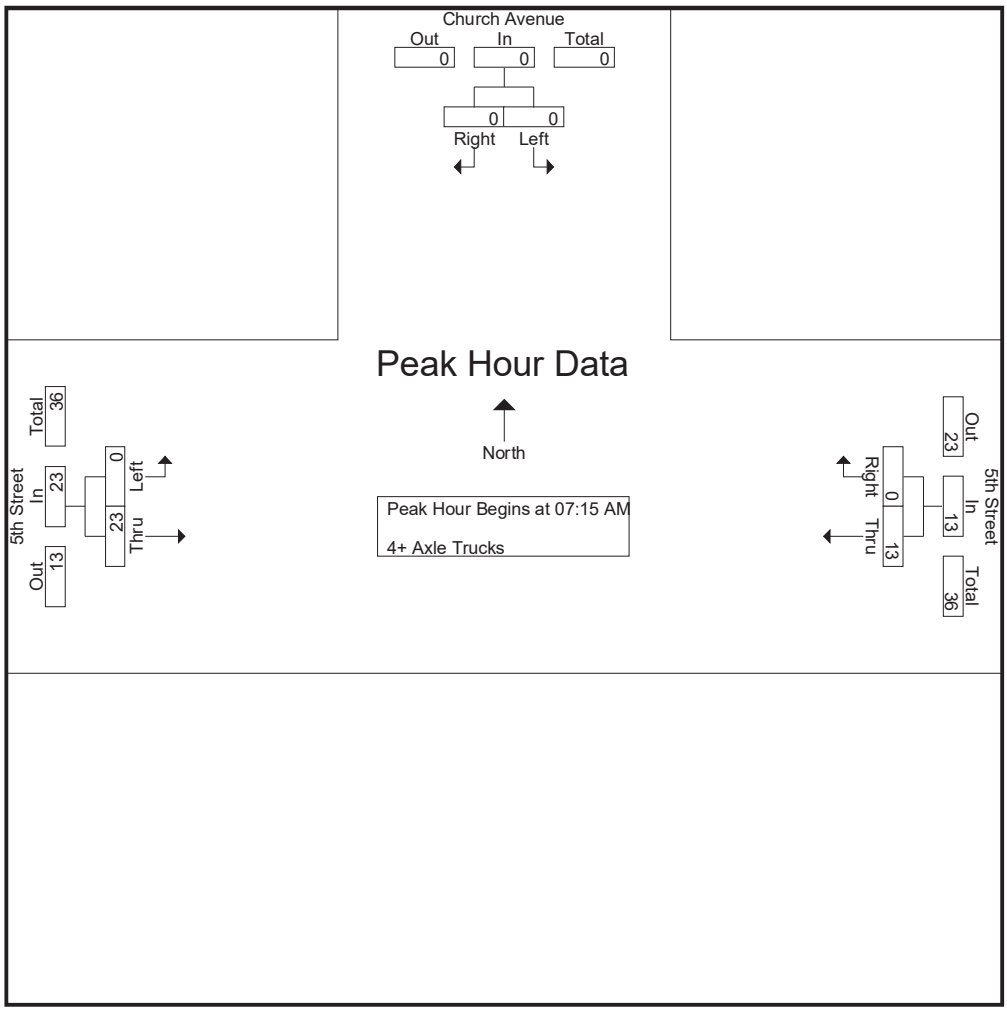

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	0	0	0	1	0	1	0	6	6
+15 mins.	0	0	0	**5**	0	**5**	0	5	5
+30 mins.	0	0	0	5	0	5	0	**9**	**9**
+45 mins.	0	0	0	2	0	2	0	3	3
Total Volume	0	0	0	13	0	13	0	23	23
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.650	.000	.650	.000	.639	.639

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File Name : 79_HLD_Church_5th PM
Site Code : 99918385
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
03:00 PM	25	7	32	122	22	144	5	174	179	355
03:15 PM	11	6	17	115	10	125	10	171	181	323
03:30 PM	14	10	24	151	22	173	12	174	186	383
03:45 PM	15	5	20	128	20	148	7	187	194	362
Total	65	28	93	516	74	590	34	706	740	1423
04:00 PM	23	10	33	125	24	149	9	234	243	425
04:15 PM	17	10	27	125	25	150	12	261	273	450
04:30 PM	16	6	22	120	22	142	9	269	278	442
04:45 PM	18	8	26	134	17	151	17	324	341	518
Total	74	34	108	504	88	592	47	1088	1135	1835
05:00 PM	19	7	26	115	19	134	6	280	286	446
05:15 PM	20	7	27	110	15	125	10	382	392	544
05:30 PM	22	8	30	112	24	136	25	288	313	479
05:45 PM	27	12	39	138	20	158	6	228	234	431
Total	88	34	122	475	78	553	47	1178	1225	1900
Grand Total	227	96	323	1495	240	1735	128	2972	3100	5158
Apprch %	70.3	29.7		86.2	13.8		4.1	95.9		
Total %	4.4	1.9	6.3	29	4.7	33.6	2.5	57.6	60.1	
Passenger Vehicles	222	96	318	1385	235	1620	128	2870	2998	4936
% Passenger Vehicles	97.8	100	98.5	92.6	97.9	93.4	100	96.6	96.7	95.7
Large 2 Axle Vehicles	2	0	2	47	1	48	0	42	42	92
% Large 2 Axle Vehicles										
3 Axle Vehicles	2	0	2	24	1	25	0	11	11	38
% 3 Axle Vehicles	0.9	0	0.6	1.6	0.4	1.4	0	0.4	0.4	0.7
4+ Axle Trucks	1	0	1	39	3	42	0	49	49	92
% 4+ Axle Trucks	0.4	0	0.3	2.6	1.2	2.4	0	1.6	1.6	1.8

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	18	**8**	26	**134**	17	**151**	17	324	341	518
05:00 PM	19	7	26	115	19	134	6	280	286	446
05:15 PM	20	7	27	110	15	125	10	**382**	**392**	**544**
05:30 PM	**22**	8	**30**	112	**24**	136	**25**	288	313	479
Total Volume	79	30	109	471	75	546	58	1274	1332	1987
% App. Total	72.5	27.5		86.3	13.7		4.4	95.6		
PHF	.898	.938	.908	.879	.781	.904	.580	.834	.849	.913

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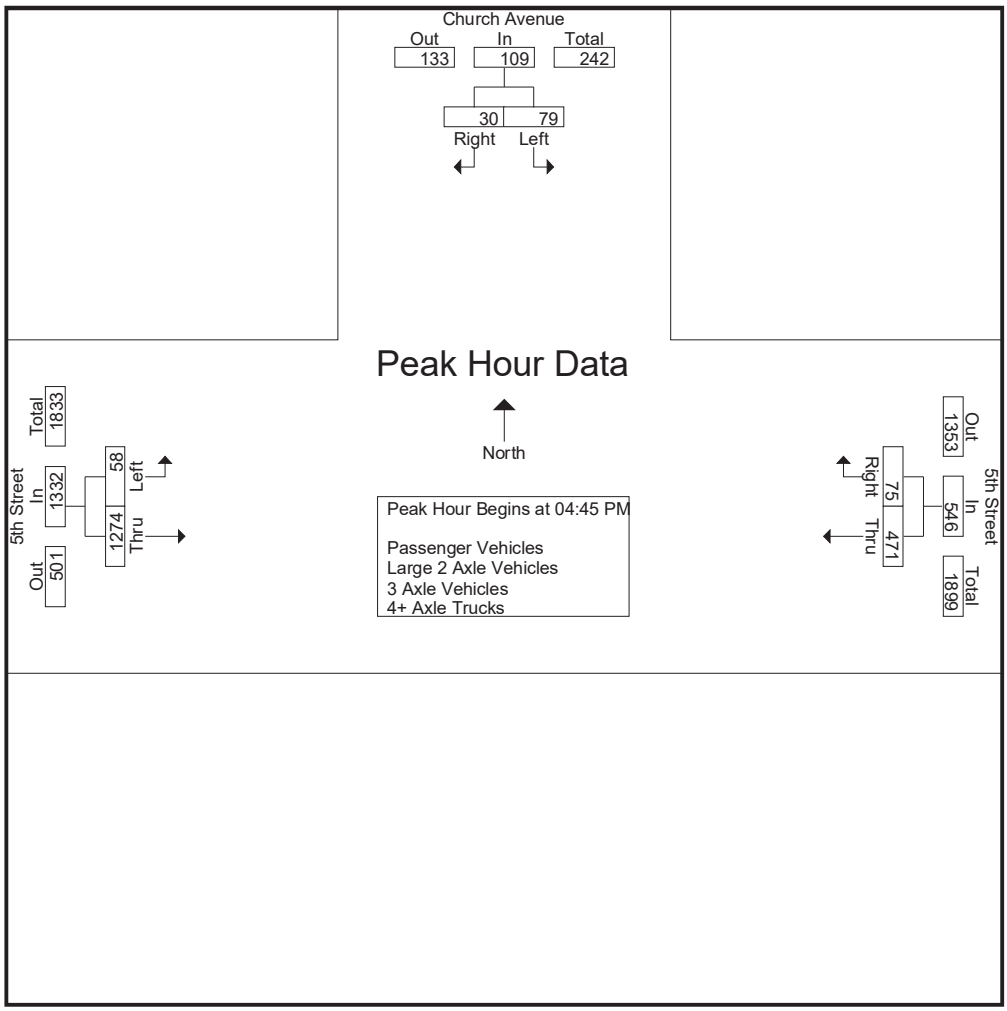

Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			03:30 PM			04:45 PM		
+0 mins.	19	7	26	**151**	22	**173**	17	324	341
+15 mins.	20	7	27	128	20	148	6	280	286
+30 mins.	22	8	30	125	24	149	10	**382**	**392**
+45 mins.	**27**	**12**	**39**	125	**25**	150	**25**	288	313
Total Volume	88	34	122	529	91	620	58	1274	1332
% App. Total	72.1	27.9		85.3	14.7		4.4	95.6	
PHF	.815	.708	.782	.876	.910	.896	.580	.834	.849

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Weather: Clear

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Groups Printed- Passenger Vehicles

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
03:00 PM	24	7	31	110	21	131	5	159	164	326
03:15 PM	11	6	17	106	9	115	10	165	175	307
03:30 PM	14	10	24	136	22	158	12	164	176	358
03:45 PM	13	5	18	116	19	135	7	182	189	342
Total	62	28	90	468	71	539	34	670	704	1333
04:00 PM	22	10	32	118	23	141	9	226	235	408
04:15 PM	17	10	27	116	25	141	12	249	261	429
04:30 PM	16	6	22	108	22	130	9	259	268	420
04:45 PM	18	8	26	127	17	144	17	317	334	504
Total	73	34	107	469	87	556	47	1051	1098	1761
05:00 PM	19	7	26	105	18	123	6	272	278	427
05:15 PM	20	7	27	102	15	117	10	371	381	525
05:30 PM	22	8	30	110	24	134	25	285	310	474
05:45 PM	26	12	38	131	20	151	6	221	227	416
Total	87	34	121	448	77	525	47	1149	1196	1842
Grand Total	222	96	318	1385	235	1620	128	2870	2998	4936
Apprch %	69.8	30.2		85.5	14.5		4.3	95.7		
Total %	4.5	1.9	6.4	28.1	4.8	32.8	2.6	58.1	60.7	

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	18	**8**	26	**127**	17	**144**	17	317	334	504
05:00 PM	19	7	26	105	18	123	6	272	278	427
05:15 PM	20	7	27	102	15	117	10	**371**	**381**	**525**
05:30 PM	**22**	8	**30**	110	**24**	134	**25**	285	310	474
Total Volume	79	30	109	444	74	518	58	1245	1303	1930
% App. Total	72.5	27.5		85.7	14.3		4.5	95.5		
PHF	.898	.938	.908	.874	.771	.899	.580	.839	.855	.919

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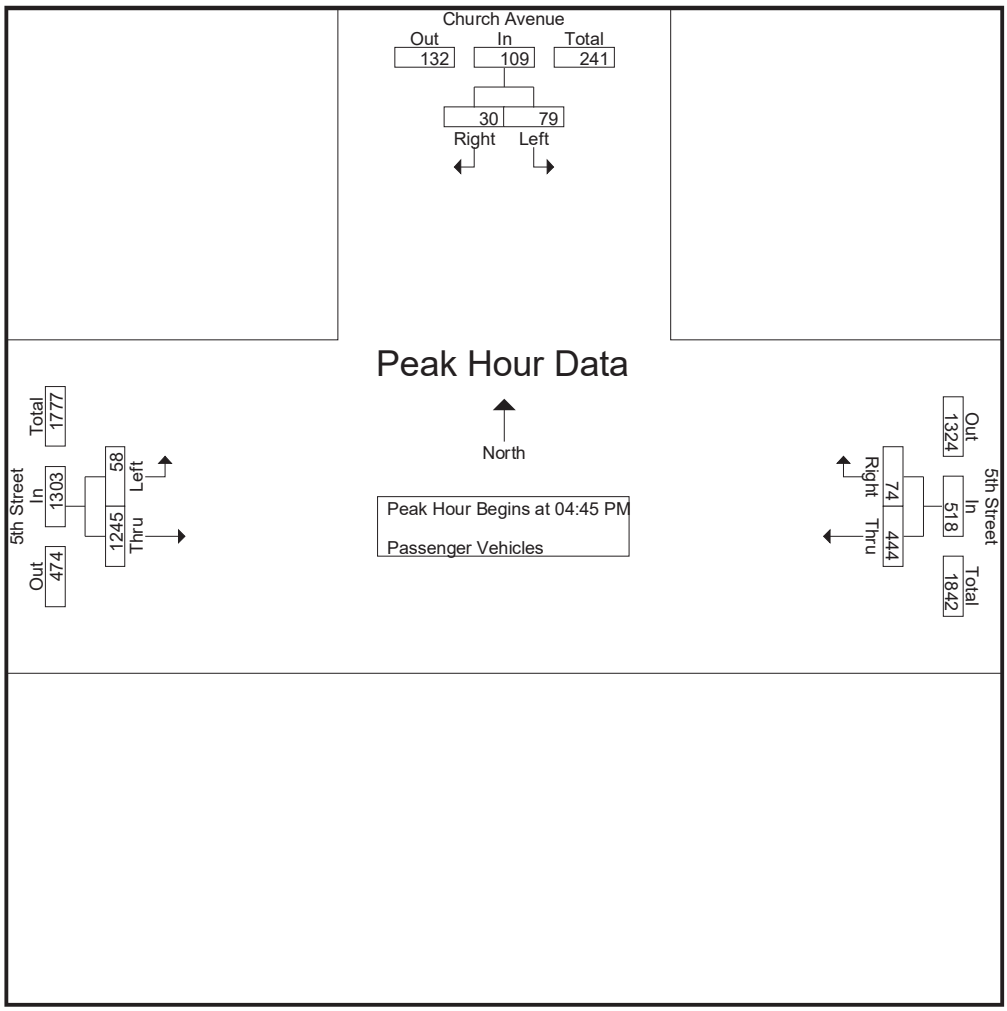

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	18	**8**	26	**127**	17	**144**	17	317	334
+15 mins.	19	7	26	105	18	123	6	272	278
+30 mins.	20	7	27	102	15	117	10	**371**	**381**
+45 mins.	**22**	8	**30**	110	**24**	134	**25**	285	310
Total Volume	79	30	109	444	74	518	58	1245	1303
% App. Total	72.5	27.5		85.7	14.3		4.5	95.5	
PHF	.898	.938	.908	.874	.771	.899	.580	.839	.855

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Groups Printed- Large 2 Axle Vehicles

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
03:00 PM	0	0	0	6	1	7	0	7	7	14
03:15 PM	0	0	0	4	0	4	0	3	3	7
03:30 PM	0	0	0	8	0	8	0	6	6	14
03:45 PM	1	0	1	1	0	1	0	2	2	4
Total	1	0	1	19	1	20	0	18	18	39
04:00 PM	1	0	1	4	0	4	0	1	1	6
04:15 PM	0	0	0	4	0	4	0	4	4	8
04:30 PM	0	0	0	6	0	6	0	3	3	9
04:45 PM	0	0	0	4	0	4	0	1	1	5
Total	1	0	1	18	0	18	0	9	9	28
05:00 PM	0	0	0	3	0	3	0	5	5	8
05:15 PM	0	0	0	3	0	3	0	7	7	10
05:30 PM	0	0	0	1	0	1	0	1	1	2
05:45 PM	0	0	0	3	0	3	0	2	2	5
Total	0	0	0	10	0	10	0	15	15	25
Grand Total	2	0	2	47	1	48	0	42	42	92
Apprch %	100	0		97.9	2.1		0	100		
Total %	2.2	0	2.2	51.1	1.1	52.2	0	45.7	45.7	

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	0	0	**4**	0	**4**	0	1	1	5
05:00 PM	0	0	0	3	0	3	0	5	5	8
05:15 PM	0	0	0	3	0	3	0	**7**	**7**	**10**
05:30 PM	0	0	0	1	0	1	0	1	1	2
Total Volume	0	0	0	11	0	11	0	14	14	25
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.688	.000	.688	.000	.500	.500	.625

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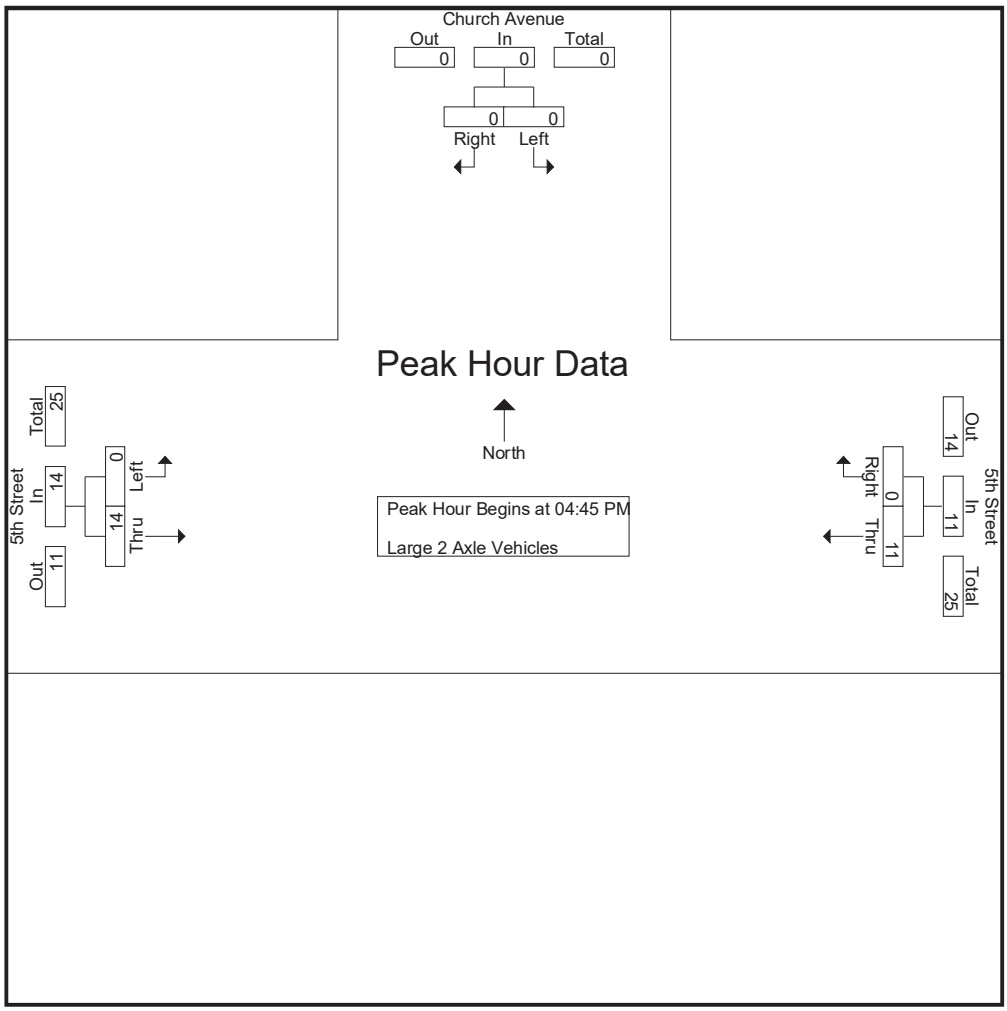

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	0	0	**4**	0	**4**	0	1	1
+15 mins.	0	0	0	3	0	3	0	5	5
+30 mins.	0	0	0	3	0	3	0	**7**	**7**
+45 mins.	0	0	0	1	0	1	0	1	1
Total Volume	0	0	0	11	0	11	0	14	14
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.688	.000	.688	.000	.500	.500

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Weather: Clear

File Name : 79_HLD_Church_5th PM
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Groups Printed- 3 Axle Vehicles

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
03:00 PM	0	0	0	2	0	2	0	2	2	4
03:15 PM	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	4	0	4	0	2	2	6
03:45 PM	1	0	1	6	1	7	0	1	1	9
Total	1	0	1	12	1	13	0	5	5	19
04:00 PM	0	0	0	2	0	2	0	1	1	3
04:15 PM	0	0	0	1	0	1	0	0	0	1
04:30 PM	0	0	0	2	0	2	0	0	0	2
04:45 PM	0	0	0	1	0	1	0	0	0	1
Total	0	0	0	6	0	6	0	1	1	7
05:00 PM	0	0	0	4	0	4	0	2	2	6
05:15 PM	0	0	0	1	0	1	0	1	1	2
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	1	0	1	1	0	1	0	2	2	4
Total	1	0	1	6	0	6	0	5	5	12
Grand Total	2	0	2	24	1	25	0	11	11	38
Apprch %	100	0		96	4		0	100		
Total %	5.3	0	5.3	63.2	2.6	65.8	0	28.9	28.9	

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	0	0	1	0	1	0	0	0	1
05:00 PM	0	0	0	**4**	0	**4**	0	**2**	**2**	**6**
05:15 PM	0	0	0	1	0	1	0	1	1	2
05:30 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	6	0	6	0	3	3	9
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.375	.000	.375	.000	.375	.375	.375

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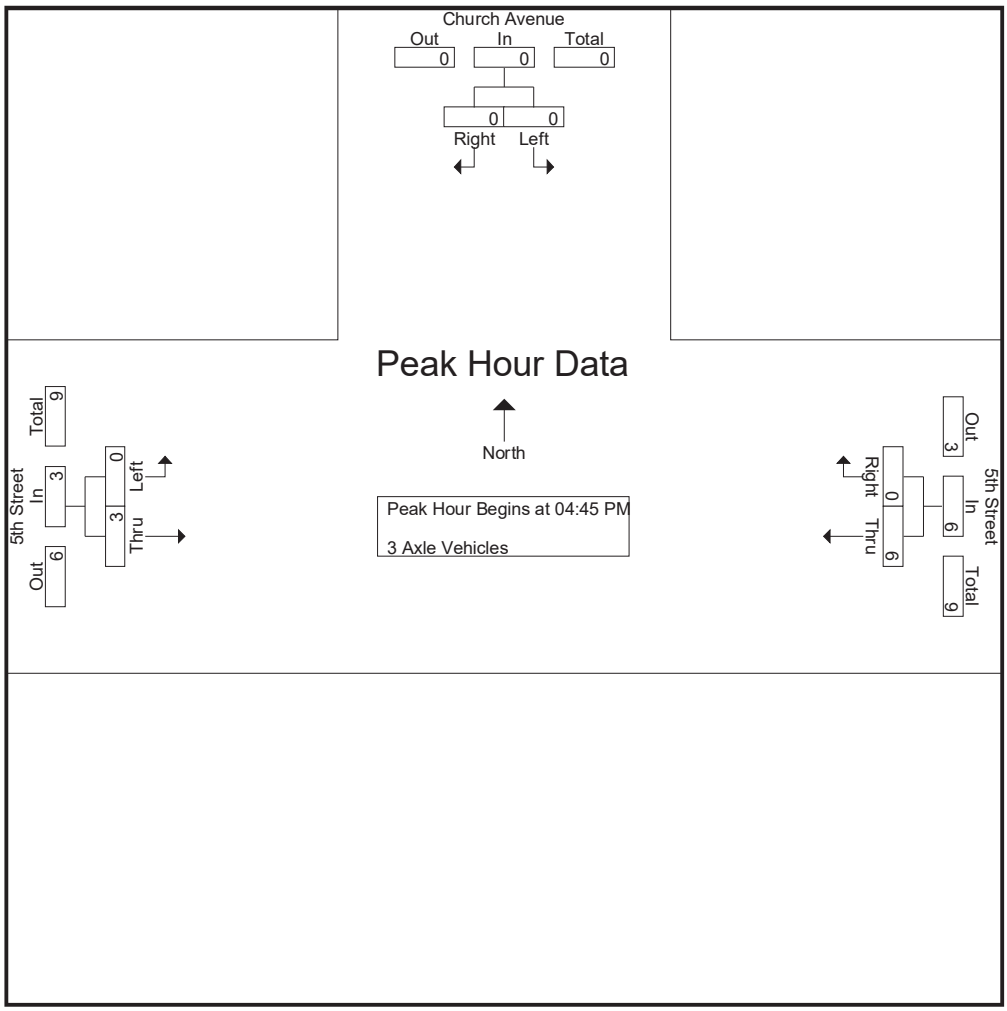

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	0	0	1	0	1	0	0	0
+15 mins.	0	0	0	**4**	0	**4**	0	**2**	**2**
+30 mins.	0	0	0	1	0	1	0	1	1
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	6	0	6	0	3	3
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.375	.000	.375	.000	.375	.375

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Weather: Clear

File Name : 79_HLD_Church_5th PM
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Groups Printed- 4+ Axle Trucks

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
03:00 PM	1	0	1	4	0	4	0	6	6	11
03:15 PM	0	0	0	5	1	6	0	3	3	9
03:30 PM	0	0	0	3	0	3	0	2	2	5
03:45 PM	0	0	0	5	0	5	0	2	2	7
Total	1	0	1	17	1	18	0	13	13	32
04:00 PM	0	0	0	1	1	2	0	6	6	8
04:15 PM	0	0	0	4	0	4	0	8	8	12
04:30 PM	0	0	0	4	0	4	0	7	7	11
04:45 PM	0	0	0	2	0	2	0	6	6	8
Total	0	0	0	11	1	12	0	27	27	39
05:00 PM	0	0	0	3	1	4	0	1	1	5
05:15 PM	0	0	0	4	0	4	0	3	3	7
05:30 PM	0	0	0	1	0	1	0	2	2	3
05:45 PM	0	0	0	3	0	3	0	3	3	6
Total	0	0	0	11	1	12	0	9	9	21
Grand Total	1	0	1	39	3	42	0	49	49	92
Apprch %	100	0		92.9	7.1		0	100		
Total %	1.1	0	1.1	42.4	3.3	45.7	0	53.3	53.3	

	Church Avenue Southbound			5th Street Westbound			5th Street Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	0	0	2	0	2	0	**6**	**6**	**8**
05:00 PM	0	0	0	3	**1**	**4**	0	1	1	5
05:15 PM	0	0	0	**4**	0	4	0	3	3	7
05:30 PM	0	0	0	1	0	1	0	2	2	3
Total Volume	0	0	0	10	1	11	0	12	12	23
% App. Total	0	0		90.9	9.1		0	100		
PHF	.000	.000	.000	.625	.250	.688	.000	.500	.500	.719

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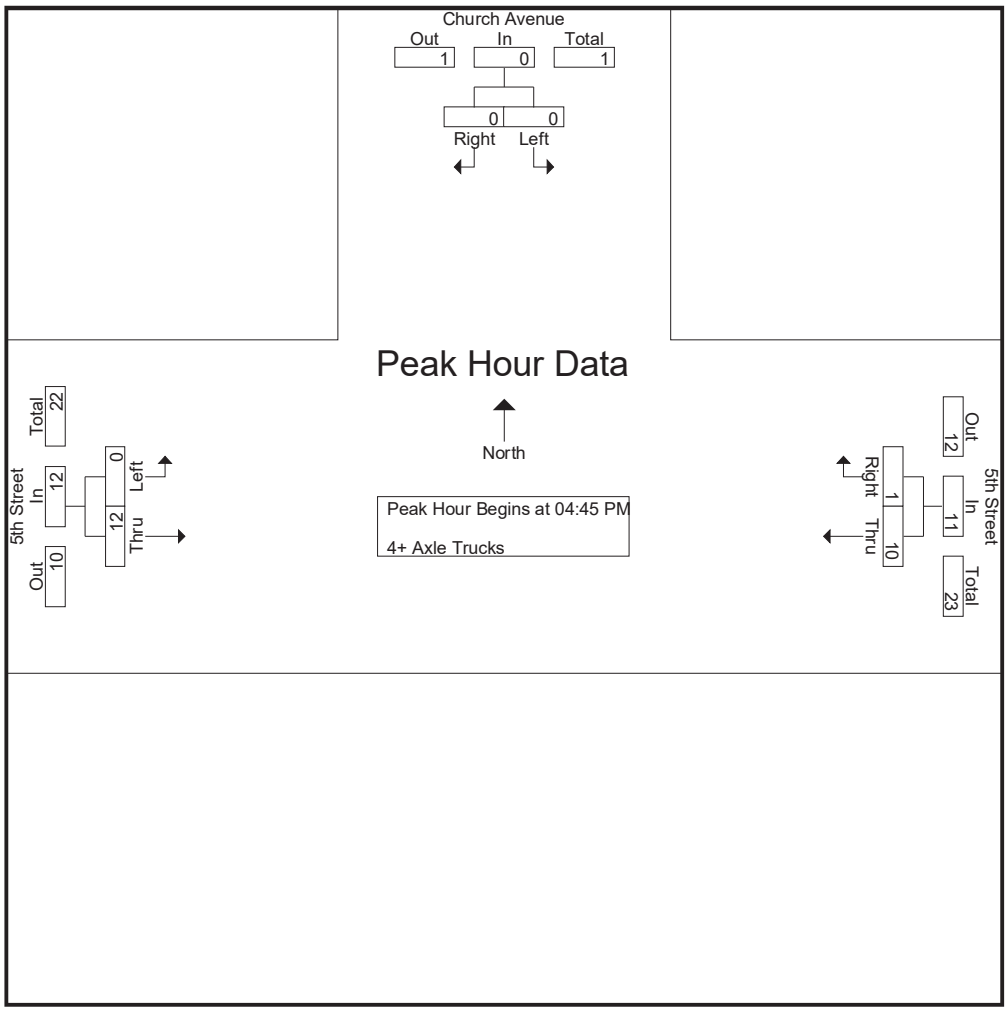

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	0	0	2	0	2	0	**6**	**6**
+15 mins.	0	0	0	3	**1**	**4**	0	1	1
+30 mins.	0	0	0	**4**	0	4	0	3	3
+45 mins.	0	0	0	1	0	1	0	2	2
Total Volume	0	0	0	10	1	11	0	12	12
% App. Total	0	0		90.9	9.1		0	100	
PHF	.000	.000	.000	.625	.250	.688	.000	.500	.500

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	24	0	25	49	73	77	0	150	0	0	0	0	0	18	61	79	278
06:15 AM	23	0	24	47	96	82	0	178	0	0	0	0	0	22	54	76	301
06:30 AM	22	0	24	46	113	90	0	203	0	0	0	0	0	43	92	135	384
06:45 AM	19	0	36	55	130	159	0	289	0	0	0	0	0	33	88	121	465
Total	88	0	109	197	412	408	0	820	0	0	0	0	0	116	295	411	1428
07:00 AM	27	0	47	74	132	170	0	302	0	0	0	0	0	53	84	137	513
07:15 AM	32	1	37	70	167	211	0	378	0	0	0	0	0	60	78	138	586
07:30 AM	31	0	23	54	186	216	0	402	0	0	0	0	0	68	74	142	598
07:45 AM	33	5	26	64	202	267	0	469	0	0	0	0	0	74	84	158	691
Total	123	6	133	262	687	864	0	1551	0	0	0	0	0	255	320	575	2388
08:00 AM	22	1	24	47	167	220	0	387	0	0	0	0	0	70	86	156	590
08:15 AM	27	0	35	62	158	204	0	362	0	0	0	0	0	72	64	136	560
08:30 AM	41	2	36	79	136	166	0	302	0	0	0	0	0	76	79	155	536
08:45 AM	52	0	44	96	125	129	0	254	0	0	0	0	0	67	81	148	498
Total	142	3	139	284	586	719	0	1305	0	0	0	0	0	285	310	595	2184
Grand Total	353	9	381	743	1685	1991	0	3676	0	0	0	0	0	656	925	1581	6000
Apprch %	47.5	1.2	51.3		45.8	54.2	0		0	0	0		0	41.5	58.5		
Total %	5.9	0.2	6.3	12.4	28.1	33.2	0	61.3	0	0	0	0	0	10.9	15.4	26.4	
Passenger Vehicles	337	9	348	694	1653	1896	0	3549	0	0	0	0	0	566	797	1363	5606
% Passenger Vehicles	95.5	100	91.3	93.4	98.1	95.2	0	96.5	0	0	0	0	0	86.3	86.2	86.2	93.4
Large 2 Axle Vehicles	11	0	9	20	14	37	0	51	0	0	0	0	0	25	28	53	124
% Large 2 Axle Vehicles	3.1	0	2.4	2.7	0.8	1.9	0	1.4	0	0	0	0	0	3.8	3	3.4	2.1
3 Axle Vehicles	2	0	9	11	3	18	0	21	0	0	0	0	0	32	51	83	115
% 3 Axle Vehicles	0.6	0	2.4	1.5	0.2	0.9	0	0.6	0	0	0	0	0	4.9	5.5	5.2	1.9
4+ Axle Trucks	3	0	15	18	15	40	0	55	0	0	0	0	0	33	49	82	155
% 4+ Axle Trucks	0.8	0	3.9	2.4	0.9	2	0	1.5	0	0	0	0	0	5	5.3	5.2	2.6

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	32	1	**37**	**70**	167	211	0	378	0	0	0	0	0	60	78	138	586
07:30 AM	31	0	23	54	186	216	0	402	0	0	0	0	0	68	74	142	598
07:45 AM	**33**	**5**	26	64	**202**	**267**	0	**469**	0	0	0	0	0	**74**	84	**158**	**691**
08:00 AM	22	1	24	47	167	220	0	387	0	0	0	0	0	70	**86**	156	590
Total Volume	118	7	110	235	722	914	0	1636	0	0	0	0	0	272	322	594	2465
% App. Total	50.2	3	46.8		44.1	55.9	0		0	0	0		0	45.8	54.2		
PHF	.894	.350	.743	.839	.894	.856	.000	.872	.000	.000	.000	.000	.000	.919	.936	.940	.892

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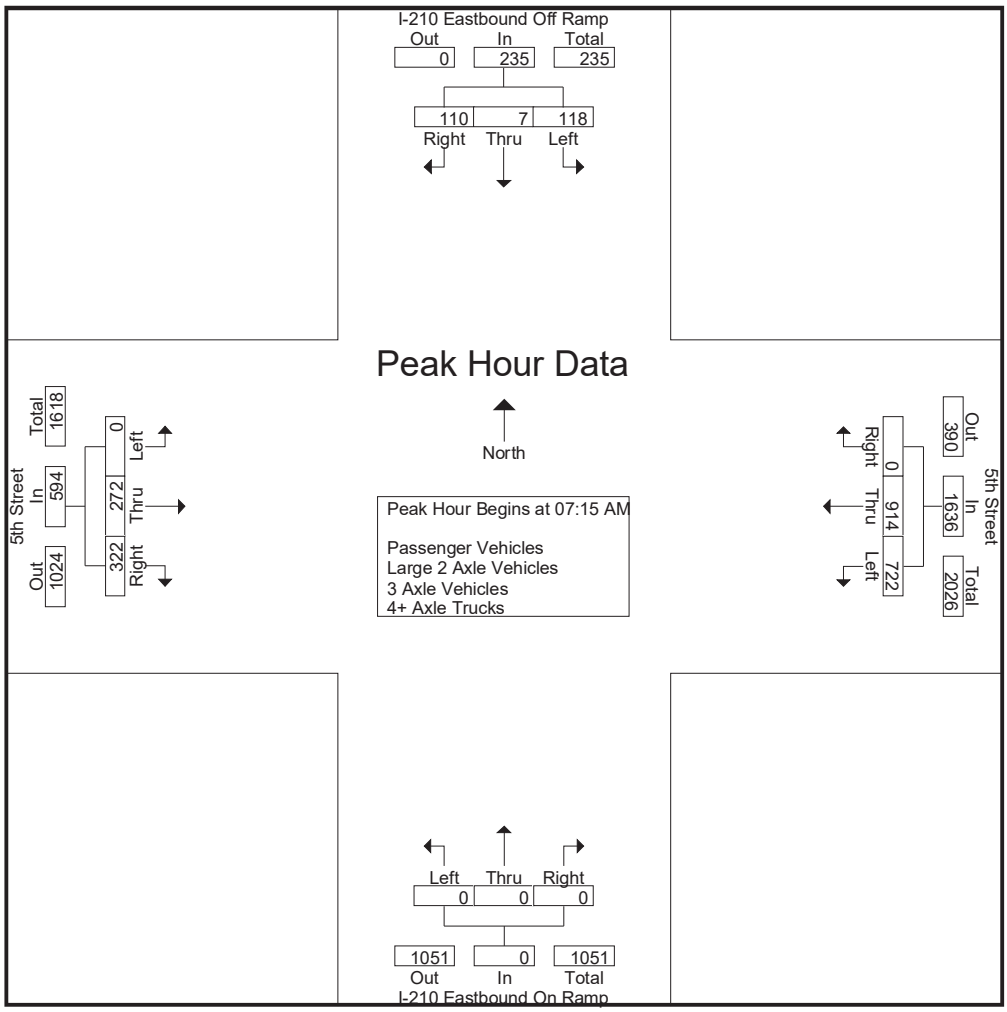
City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				07:15 AM				06:00 AM				07:45 AM			
+0 mins.	22	1	24	47	167	211	0	378	0	0	0	0	0	74	84	**158**
+15 mins.	27	0	35	62	186	216	0	402	0	0	0	0	0	70	**86**	156
+30 mins.	41	**2**	36	79	**202**	**267**	0	**469**	0	0	0	0	0	72	64	136
+45 mins.	**52**	0	**44**	**96**	167	220	0	387	0	0	0	0	0	**76**	79	155
Total Volume	142	3	139	284	722	914	0	1636	0	0	0	0	0	292	313	605
% App. Total	50	1.1	48.9		44.1	55.9	0		0	0	0		0	48.3	51.7	
PHF	.683	.375	.790	.740	.894	.856	.000	.872	.000	.000	.000	.000	.000	.961	.910	.957

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	22	0	25	47	68	70	0	138	0	0	0	0	0	17	55	72	257
06:15 AM	20	0	23	43	92	78	0	170	0	0	0	0	0	17	44	61	274
06:30 AM	21	0	21	42	113	87	0	200	0	0	0	0	0	33	70	103	345
06:45 AM	17	0	36	53	129	143	0	272	0	0	0	0	0	31	75	106	431
Total	80	0	105	185	402	378	0	780	0	0	0	0	0	98	244	342	1307
07:00 AM	26	0	43	69	130	163	0	293	0	0	0	0	0	45	75	120	482
07:15 AM	32	1	35	68	165	206	0	371	0	0	0	0	0	54	65	119	558
07:30 AM	29	0	21	50	182	210	0	392	0	0	0	0	0	62	63	125	567
07:45 AM	32	5	24	61	197	259	0	456	0	0	0	0	0	59	74	133	650
Total	119	6	123	248	674	838	0	1512	0	0	0	0	0	220	277	497	2257
08:00 AM	22	1	22	45	164	216	0	380	0	0	0	0	0	63	73	136	561
08:15 AM	24	0	28	52	157	188	0	345	0	0	0	0	0	67	53	120	517
08:30 AM	40	2	32	74	132	158	0	290	0	0	0	0	0	65	78	143	507
08:45 AM	52	0	38	90	124	118	0	242	0	0	0	0	0	53	72	125	457
Total	138	3	120	261	577	680	0	1257	0	0	0	0	0	248	276	524	2042
Grand Total	337	9	348	694	1653	1896	0	3549	0	0	0	0	0	566	797	1363	5606
Apprch %	48.6	1.3	50.1		46.6	53.4	0		0	0	0		0	41.5	58.5		
Total %	6	0.2	6.2	12.4	29.5	33.8	0	63.3	0	0	0	0	0	10.1	14.2	24.3	

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**32**	1	**35**	**68**	165	206	0	371	0	0	0	0	0	54	65	119	558
07:30 AM	29	0	21	50	182	210	0	392	0	0	0	0	0	62	63	125	567
07:45 AM	32	**5**	24	61	**197**	**259**	0	**456**	0	0	0	0	0	59	**74**	133	**650**
08:00 AM	22	1	22	45	164	216	0	380	0	0	0	0	0	**63**	73	**136**	561
Total Volume	115	7	102	224	708	891	0	1599	0	0	0	0	0	238	275	513	2336
% App. Total	51.3	3.1	45.5		44.3	55.7	0		0	0	0		0	46.4	53.6		
PHF	.898	.350	.729	.824	.898	.860	.000	.877	.000	.000	.000	.000	.000	.944	.929	.943	.898

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
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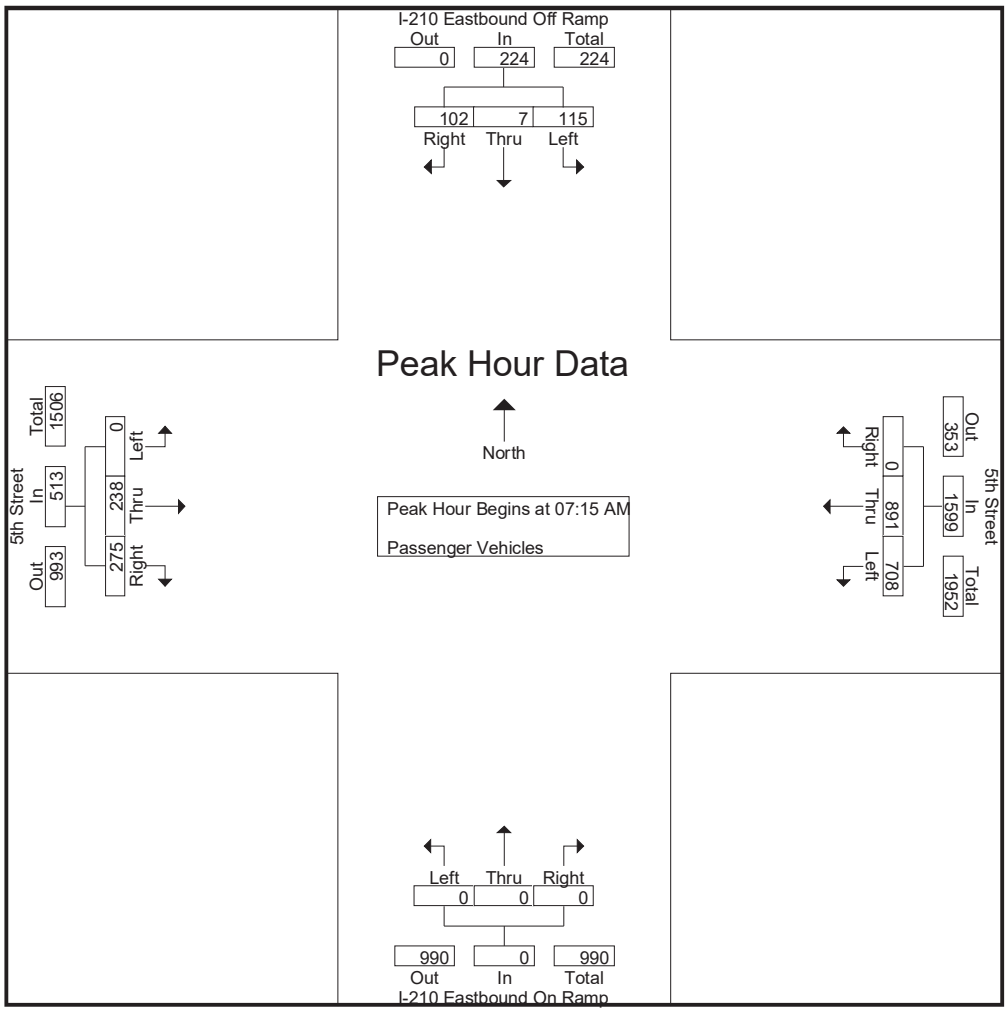

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**32**	1	**35**	**68**	165	206	0	371	0	0	0	0	0	54	65	119
+15 mins.	29	0	21	50	182	210	0	392	0	0	0	0	0	62	63	125
+30 mins.	32	**5**	24	61	**197**	**259**	0	**456**	0	0	0	0	0	59	**74**	133
+45 mins.	22	1	22	45	164	216	0	380	0	0	0	0	0	**63**	73	**136**
Total Volume	115	7	102	224	708	891	0	1599	0	0	0	0	0	238	275	513
% App. Total	51.3	3.1	45.5		44.3	55.7	0		0	0	0		0	46.4	53.6	
PHF	.898	.350	.729	.824	.898	.860	.000	.877	.000	.000	.000	.000	.000	.944	.929	.943

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	2	0	0	2	1	6	0	7	0	0	0	0	0	0	3	3	12
06:15 AM	3	0	1	4	1	2	0	3	0	0	0	0	0	3	5	8	15
06:30 AM	0	0	1	1	0	2	0	2	0	0	0	0	0	5	6	11	14
06:45 AM	2	0	0	2	1	12	0	13	0	0	0	0	0	0	3	3	18
Total	7	0	2	9	3	22	0	25	0	0	0	0	0	8	17	25	59
07:00 AM	1	0	2	3	1	2	0	3	0	0	0	0	0	2	1	3	9
07:15 AM	0	0	1	1	1	1	0	2	0	0	0	0	0	1	1	2	5
07:30 AM	1	0	1	2	0	1	0	1	0	0	0	0	0	0	2	2	5
07:45 AM	1	0	1	2	2	3	0	5	0	0	0	0	0	4	1	5	12
Total	3	0	5	8	4	7	0	11	0	0	0	0	0	7	5	12	31
08:00 AM	0	0	2	2	2	0	0	2	0	0	0	0	0	1	2	3	7
08:15 AM	1	0	0	1	1	3	0	4	0	0	0	0	0	2	2	4	9
08:30 AM	0	0	0	0	3	2	0	5	0	0	0	0	0	3	0	3	8
08:45 AM	0	0	0	0	1	3	0	4	0	0	0	0	0	4	2	6	10
Total	1	0	2	3	7	8	0	15	0	0	0	0	0	10	6	16	34
Grand Total	11	0	9	20	14	37	0	51	0	0	0	0	0	25	28	53	124
Apprch %	55	0	45		27.5	72.5	0		0	0	0		0	47.2	52.8		
Total %	8.9	0	7.3	16.1	11.3	29.8	0	41.1	0	0	0	0	0	20.2	22.6	42.7	

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	1	1	1	1	0	2	0	0	0	0	0	1	1	2	5
07:30 AM	**1**	0	1	**2**	0	1	0	1	0	0	0	0	0	0	**2**	2	5
07:45 AM	1	0	1	2	**2**	**3**	0	**5**	0	0	0	0	0	**4**	1	**5**	**12**
08:00 AM	0	0	**2**	2	2	0	0	2	0	0	0	0	0	1	2	3	7
Total Volume	2	0	5	7	5	5	0	10	0	0	0	0	0	6	6	12	29
% App. Total	28.6	0	71.4		50	50	0		0	0	0		0	50	50		
PHF	.500	.000	.625	.875	.625	.417	.000	.500	.000	.000	.000	.000	.000	.375	.750	.600	.604

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
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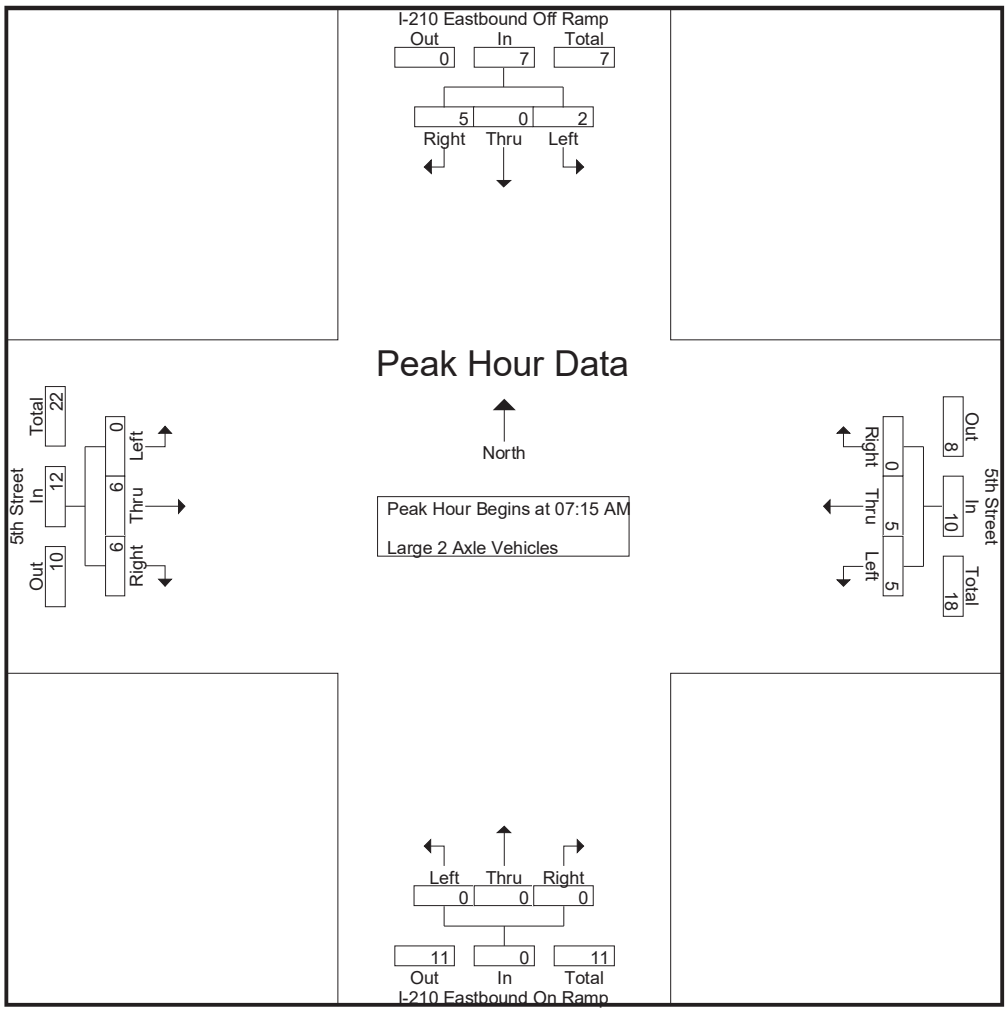

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	1	1	1	1	0	2	0	0	0	0	0	1	1	2
+15 mins.	**1**	0	1	**2**	0	1	0	1	0	0	0	0	0	0	**2**	2
+30 mins.	1	0	1	2	**2**	**3**	0	**5**	0	0	0	0	0	**4**	1	**5**
+45 mins.	0	0	**2**	2	2	0	0	2	0	0	0	0	0	1	2	3
Total Volume	2	0	5	7	5	5	0	10	0	0	0	0	0	6	6	12
% App. Total	28.6	0	71.4		50	50	0		0	0	0		0	50	50	
PHF	.500	.000	.625	.875	.625	.417	.000	.500	.000	.000	.000	.000	.000	.375	.750	.600

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	2	1	0	3	0	0	0	0	0	0	0	0	3
06:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
06:30 AM	0	0	2	2	0	0	0	0	0	0	0	0	0	1	3	4	6
06:45 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	0	4	4	6
Total	0	0	2	2	2	3	0	5	0	0	0	0	0	1	8	9	16
07:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	5	6	11	12
07:15 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	3	8	11	14
07:30 AM	1	0	0	1	0	2	0	2	0	0	0	0	0	3	8	11	14
07:45 AM	0	0	0	0	1	1	0	2	0	0	0	0	0	6	5	11	13
Total	1	0	0	1	1	7	0	8	0	0	0	0	0	17	27	44	53
08:00 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	4	7	11	13
08:15 AM	1	0	4	5	0	3	0	3	0	0	0	0	0	1	7	8	16
08:30 AM	0	0	1	1	0	1	0	1	0	0	0	0	0	5	0	5	7
08:45 AM	0	0	2	2	0	2	0	2	0	0	0	0	0	4	2	6	10
Total	1	0	7	8	0	8	0	8	0	0	0	0	0	14	16	30	46
Grand Total	2	0	9	11	3	18	0	21	0	0	0	0	0	32	51	83	115
Apprch %	18.2	0	81.8		14.3	85.7	0		0	0	0		0	38.6	61.4		
Total %	1.7	0	7.8	9.6	2.6	15.7	0	18.3	0	0	0	0	0	27.8	44.3	72.2	

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	0	0	0	**3**	0	**3**	0	0	0	0	0	3	**8**	**11**	**14**
07:30 AM	**1**	0	0	**1**	0	2	0	2	0	0	0	0	0	3	8	11	14
07:45 AM	0	0	0	0	**1**	1	0	2	0	0	0	0	0	**6**	5	11	13
08:00 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	4	7	11	13
Total Volume	1	0	0	1	1	8	0	9	0	0	0	0	0	16	28	44	54
% App. Total	100	0	0		11.1	88.9	0		0	0	0		0	36.4	63.6		
PHF	.250	.000	.000	.250	.250	.667	.000	.750	.000	.000	.000	.000	.000	.667	.875	1.00	.964

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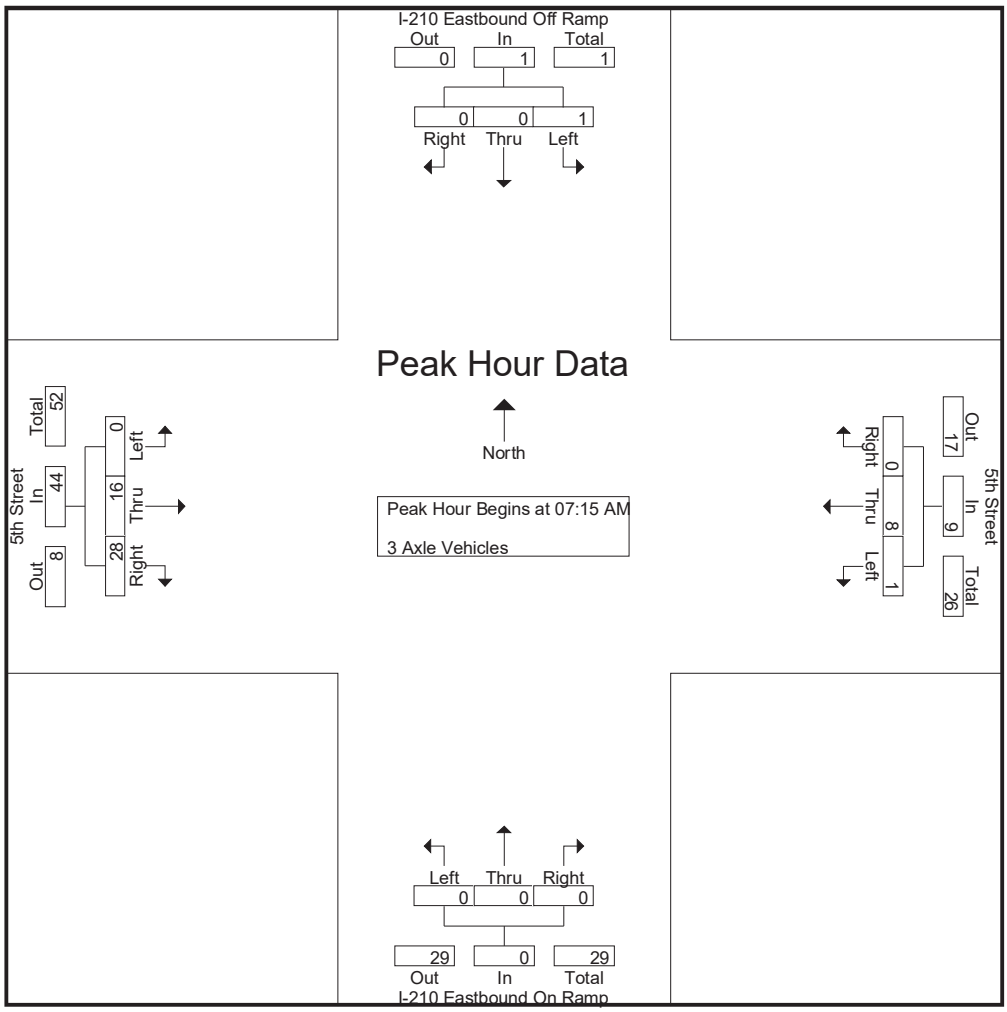
City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	0	0	0	**3**	0	**3**	0	0	0	0	0	3	**8**	**11**
+15 mins.	**1**	0	0	**1**	0	2	0	2	0	0	0	0	0	3	8	11
+30 mins.	0	0	0	0	**1**	1	0	2	0	0	0	0	0	**6**	5	11
+45 mins.	0	0	0	0	0	2	0	2	0	0	0	0	0	4	7	11
Total Volume	1	0	0	1	1	8	0	9	0	0	0	0	0	16	28	44
% App. Total	100	0	0		11.1	88.9	0		0	0	0		0	36.4	63.6	
PHF	.250	.000	.000	.250	.250	.667	.000	.750	.000	.000	.000	.000	.000	.667	.875	1.000

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	2	0	0	2	0	0	0	0	0	1	3	4	6
06:15 AM	0	0	0	0	3	2	0	5	0	0	0	0	0	2	4	6	11
06:30 AM	1	0	0	1	0	1	0	1	0	0	0	0	0	4	13	17	19
06:45 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	2	6	8	10
Total	1	0	0	1	5	5	0	10	0	0	0	0	0	9	26	35	46
07:00 AM	0	0	2	2	1	4	0	5	0	0	0	0	0	1	2	3	10
07:15 AM	0	0	1	1	1	1	0	2	0	0	0	0	0	2	4	6	9
07:30 AM	0	0	1	1	4	3	0	7	0	0	0	0	0	3	1	4	12
07:45 AM	0	0	1	1	2	4	0	6	0	0	0	0	0	5	4	9	16
Total	0	0	5	5	8	12	0	20	0	0	0	0	0	11	11	22	47
08:00 AM	0	0	0	0	1	2	0	3	0	0	0	0	0	2	4	6	9
08:15 AM	1	0	3	4	0	10	0	10	0	0	0	0	0	2	2	4	18
08:30 AM	1	0	3	4	1	5	0	6	0	0	0	0	0	3	1	4	14
08:45 AM	0	0	4	4	0	6	0	6	0	0	0	0	0	6	5	11	21
Total	2	0	10	12	2	23	0	25	0	0	0	0	0	13	12	25	62
Grand Total	3	0	15	18	15	40	0	55	0	0	0	0	0	33	49	82	155
Apprch %	16.7	0	83.3		27.3	72.7	0		0	0	0		0	40.2	59.8		
Total %	1.9	0	9.7	11.6	9.7	25.8	0	35.5	0	0	0	0	0	21.3	31.6	52.9	

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	**1**	**1**	1	1	0	2	0	0	0	0	0	2	**4**	6	9
07:30 AM	0	0	1	1	**4**	3	0	**7**	0	0	0	0	0	3	1	4	12
07:45 AM	0	0	1	1	2	**4**	0	6	0	0	0	0	0	**5**	4	**9**	**16**
08:00 AM	0	0	0	0	1	2	0	3	0	0	0	0	0	2	4	6	9
Total Volume	0	0	3	3	8	10	0	18	0	0	0	0	0	12	13	25	46
% App. Total	0	0	100		44.4	55.6	0		0	0	0		0	48	52		
PHF	.000	.000	.750	.750	.500	.625	.000	.643	.000	.000	.000	.000	.000	.600	.813	.694	.719

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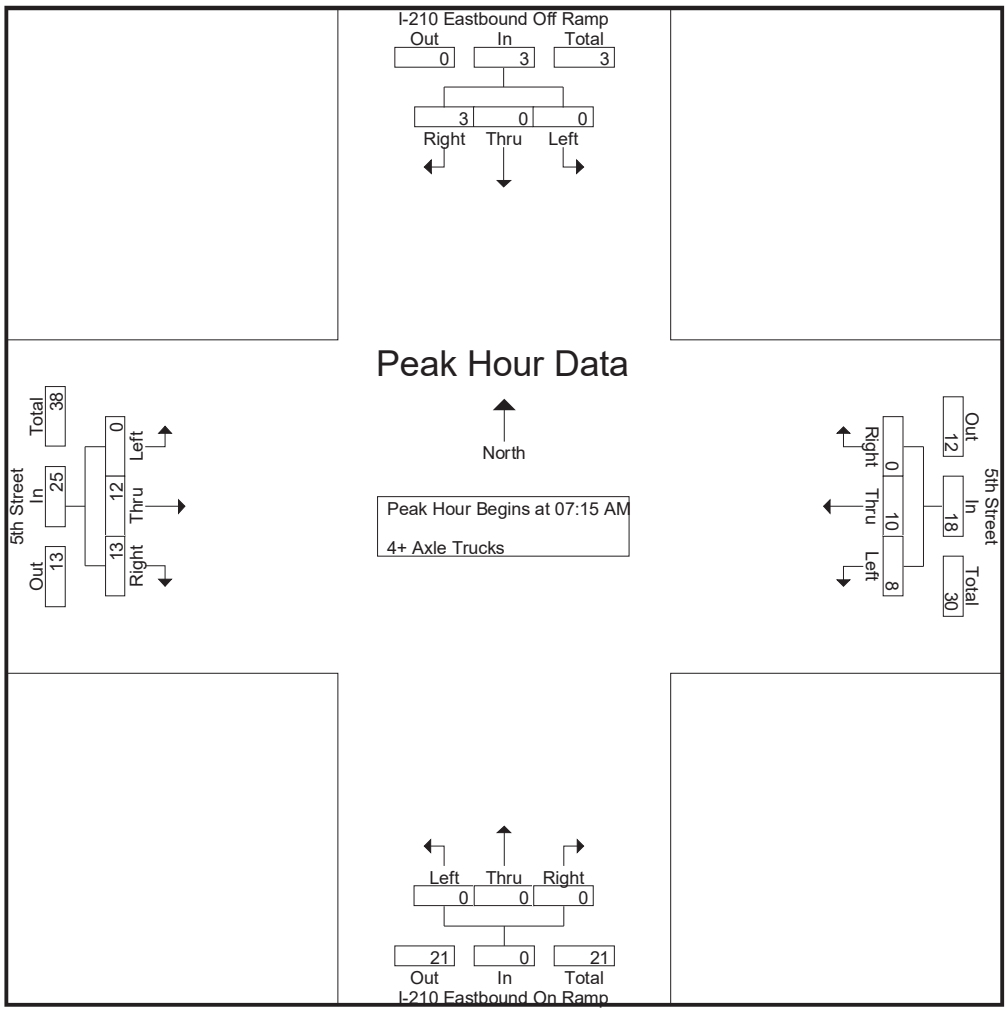
City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	**1**	**1**	1	1	0	2	0	0	0	0	0	2	**4**	6
+15 mins.	0	0	1	1	**4**	3	0	**7**	0	0	0	0	0	3	1	4
+30 mins.	0	0	1	1	2	**4**	0	6	0	0	0	0	0	**5**	4	**9**
+45 mins.	0	0	0	0	1	2	0	3	0	0	0	0	0	2	4	6
Total Volume	0	0	3	3	8	10	0	18	0	0	0	0	0	12	13	25
% App. Total	0	0	100		44.4	55.6	0		0	0	0		0	48	52	
PHF	.000	.000	.750	.750	.500	.625	.000	.643	.000	.000	.000	.000	.000	.600	.813	.694

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	65	1	29	95	87	117	0	204	0	0	0	0	0	101	89	190	489
03:15 PM	70	0	22	92	84	103	0	187	0	0	0	0	0	105	85	190	469
03:30 PM	59	0	34	93	78	131	0	209	0	0	0	0	0	94	72	166	468
03:45 PM	68	0	33	101	79	112	0	191	0	0	0	0	0	128	95	223	515
Total	262	1	118	381	328	463	0	791	0	0	0	0	0	428	341	769	1941
04:00 PM	62	0	27	89	78	121	0	199	0	0	0	0	0	163	89	252	540
04:15 PM	72	0	19	91	71	137	0	208	0	0	0	0	0	177	109	286	585
04:30 PM	83	0	25	108	87	120	0	207	0	0	0	0	0	190	86	276	591
04:45 PM	60	3	30	93	74	125	0	199	0	0	0	0	0	224	128	352	644
Total	277	3	101	381	310	503	0	813	0	0	0	0	0	754	412	1166	2360
05:00 PM	74	1	15	90	62	124	0	186	0	0	0	0	0	199	103	302	578
05:15 PM	86	1	30	117	72	96	0	168	0	0	0	0	0	263	146	409	694
05:30 PM	88	1	26	115	68	113	0	181	0	0	0	0	0	218	98	316	612
05:45 PM	90	0	30	120	90	132	0	222	0	0	0	0	0	161	104	265	607
Total	338	3	101	442	292	465	0	757	0	0	0	0	0	841	451	1292	2491
Grand Total	877	7	320	1204	930	1431	0	2361	0	0	0	0	0	2023	1204	3227	6792
Apprch %	72.8	0.6	26.6		39.4	60.6	0		0	0	0		0	62.7	37.3		
Total %	12.9	0.1	4.7	17.7	13.7	21.1	0	34.8	0	0	0	0	0	29.8	17.7	47.5	
Passenger Vehicles	859	7	274	1140	911	1350	0	2261	0	0	0	0	0	1962	1149	3111	6512
% Passenger Vehicles	97.9	100	85.6	94.7	98	94.3	0	95.8	0	0	0	0	0	97	95.4	96.4	95.9
Large 2 Axle Vehicles	17	0	16	33	17	47	0	64	0	0	0	0	0	35	24	59	156
% Large 2 Axle Vehicles	1.9	0	5	2.7	1.8	3.3	0	2.7	0	0	0	0	0	1.7	2	1.8	2.3
3 Axle Vehicles	0	0	7	7	1	13	0	14	0	0	0	0	0	2	8	10	31
% 3 Axle Vehicles	0	0	2.2	0.6	0.1	0.9	0	0.6	0	0	0	0	0	0.1	0.7	0.3	0.5
4+ Axle Trucks	1	0	23	24	1	21	0	22	0	0	0	0	0	24	23	47	93
% 4+ Axle Trucks	0.1	0	7.2	2	0.1	1.5	0	0.9	0	0	0	0	0	1.2	1.9	1.5	1.4

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	60	**3**	**30**	93	**74**	**125**	0	**199**	0	0	0	0	0	224	128	352	644
05:00 PM	74	1	15	90	62	124	0	186	0	0	0	0	0	199	103	302	578
05:15 PM	86	1	30	**117**	72	96	0	168	0	0	0	0	0	**263**	**146**	**409**	**694**
05:30 PM	**88**	1	26	115	68	113	0	181	0	0	0	0	0	218	98	316	612
Total Volume	308	6	101	415	276	458	0	734	0	0	0	0	0	904	475	1379	2528
% App. Total	74.2	1.4	24.3		37.6	62.4	0		0	0	0		0	65.6	34.4		
PHF	.875	.500	.842	.887	.932	.916	.000	.922	.000	.000	.000	.000	.000	.859	.813	.843	.911

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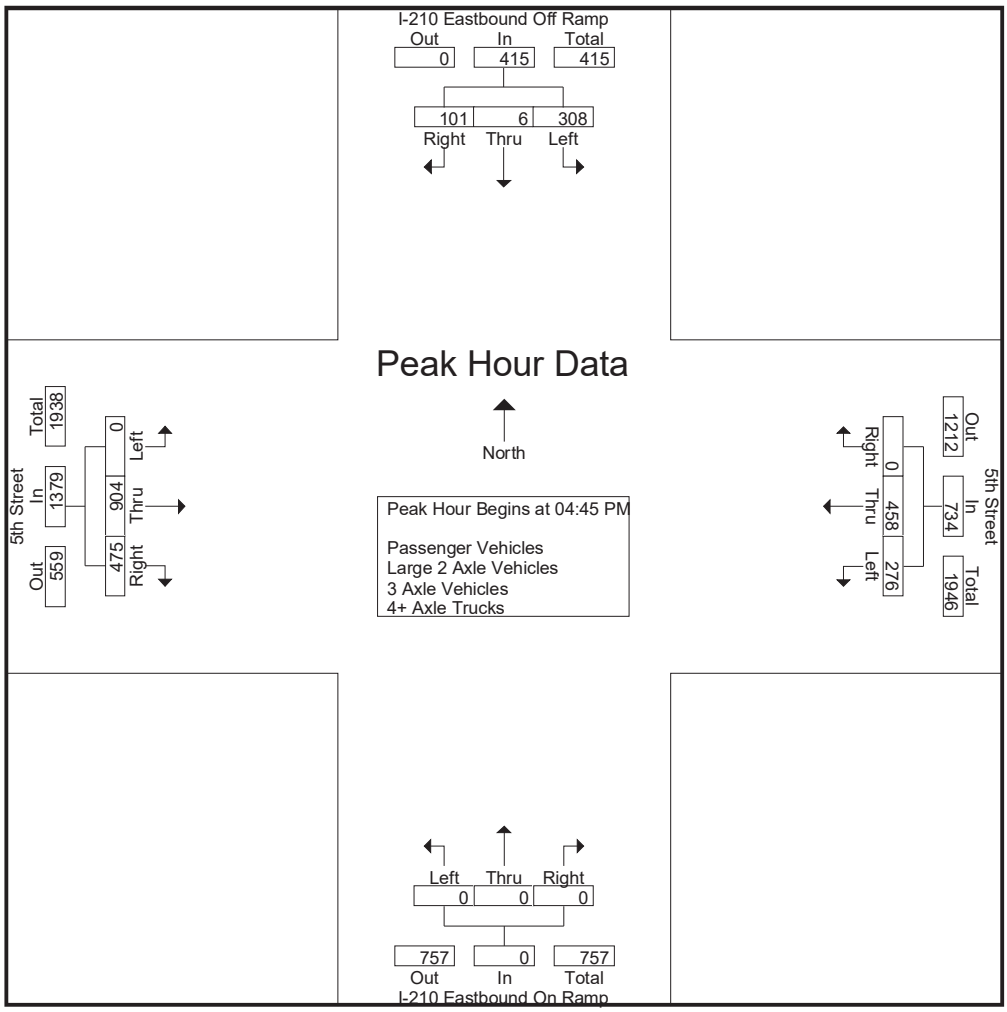
City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				04:00 PM				03:00 PM				04:45 PM			
+0 mins.	74	**1**	15	90	78	121	0	199	0	0	0	0	0	224	128	352
+15 mins.	86	1	**30**	117	71	**137**	0	**208**	0	0	0	0	0	199	103	302
+30 mins.	88	1	26	115	**87**	120	0	207	0	0	0	0	0	**263**	**146**	**409**
+45 mins.	**90**	0	30	**120**	74	125	0	199	0	0	0	0	0	218	98	316
Total Volume	338	3	101	442	310	503	0	813	0	0	0	0	0	904	475	1379
% App. Total	76.5	0.7	22.9		38.1	61.9	0		0	0	0		0	65.6	34.4	
PHF	.939	.750	.842	.921	.891	.918	.000	.977	.000	.000	.000	.000	.000	.859	.813	.843

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	60	1	23	84	83	106	0	189	0	0	0	0	0	93	79	172	445
03:15 PM	68	0	19	87	79	90	0	169	0	0	0	0	0	98	78	176	432
03:30 PM	57	0	31	88	77	117	0	194	0	0	0	0	0	90	66	156	438
03:45 PM	65	0	24	89	77	100	0	177	0	0	0	0	0	123	88	211	477
Total	250	1	97	348	316	413	0	729	0	0	0	0	0	404	311	715	1792
04:00 PM	62	0	26	88	77	116	0	193	0	0	0	0	0	155	87	242	523
04:15 PM	70	0	16	86	71	134	0	205	0	0	0	0	0	176	104	280	571
04:30 PM	82	0	18	100	83	115	0	198	0	0	0	0	0	183	80	263	561
04:45 PM	60	3	26	89	73	122	0	195	0	0	0	0	0	218	127	345	629
Total	274	3	86	363	304	487	0	791	0	0	0	0	0	732	398	1130	2284
05:00 PM	74	1	13	88	62	116	0	178	0	0	0	0	0	195	99	294	560
05:15 PM	85	1	28	114	71	91	0	162	0	0	0	0	0	257	144	401	677
05:30 PM	87	1	24	112	68	112	0	180	0	0	0	0	0	215	97	312	604
05:45 PM	89	0	26	115	90	131	0	221	0	0	0	0	0	159	100	259	595
Total	335	3	91	429	291	450	0	741	0	0	0	0	0	826	440	1266	2436
Grand Total	859	7	274	1140	911	1350	0	2261	0	0	0	0	0	1962	1149	3111	6512
Apprch %	75.4	0.6	24		40.3	59.7	0		0	0	0		0	63.1	36.9		
Total %	13.2	0.1	4.2	17.5	14	20.7	0	34.7	0	0	0	0	0	30.1	17.6	47.8	

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	60	**3**	26	89	**73**	**122**	0	**195**	0	0	0	0	0	218	127	345	629
05:00 PM	74	1	13	88	62	116	0	178	0	0	0	0	0	195	99	294	560
05:15 PM	85	1	**28**	**114**	71	91	0	162	0	0	0	0	0	**257**	**144**	**401**	**677**
05:30 PM	**87**	1	24	112	68	112	0	180	0	0	0	0	0	215	97	312	604
Total Volume	306	6	91	403	274	441	0	715	0	0	0	0	0	885	467	1352	2470
% App. Total	75.9	1.5	22.6		38.3	61.7	0		0	0	0		0	65.5	34.5		
PHF	.879	.500	.813	.884	.938	.904	.000	.917	.000	.000	.000	.000	.000	.861	.811	.843	.912

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
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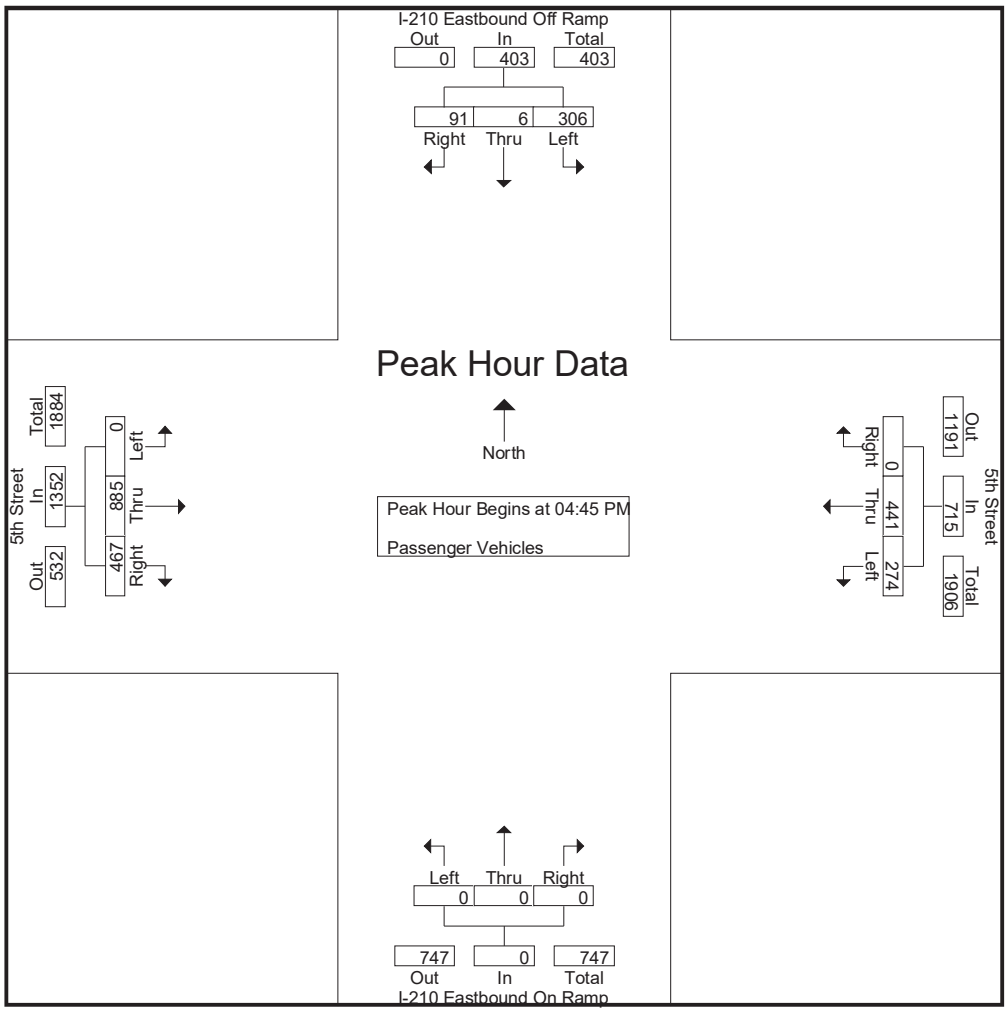

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	60	**3**	26	89	**73**	**122**	0	**195**	0	0	0	0	0	218	127	345
+15 mins.	74	1	13	88	62	116	0	178	0	0	0	0	0	195	99	294
+30 mins.	85	1	**28**	**114**	71	91	0	162	0	0	0	0	0	**257**	**144**	**401**
+45 mins.	**87**	1	24	112	68	112	0	180	0	0	0	0	0	215	97	312
Total Volume	306	6	91	403	274	441	0	715	0	0	0	0	0	885	467	1352
% App. Total	75.9	1.5	22.6		38.3	61.7	0		0	0	0		0	65.5	34.5	
PHF	.879	.500	.813	.884	.938	.904	.000	.917	.000	.000	.000	.000	.000	.861	.811	.843

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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

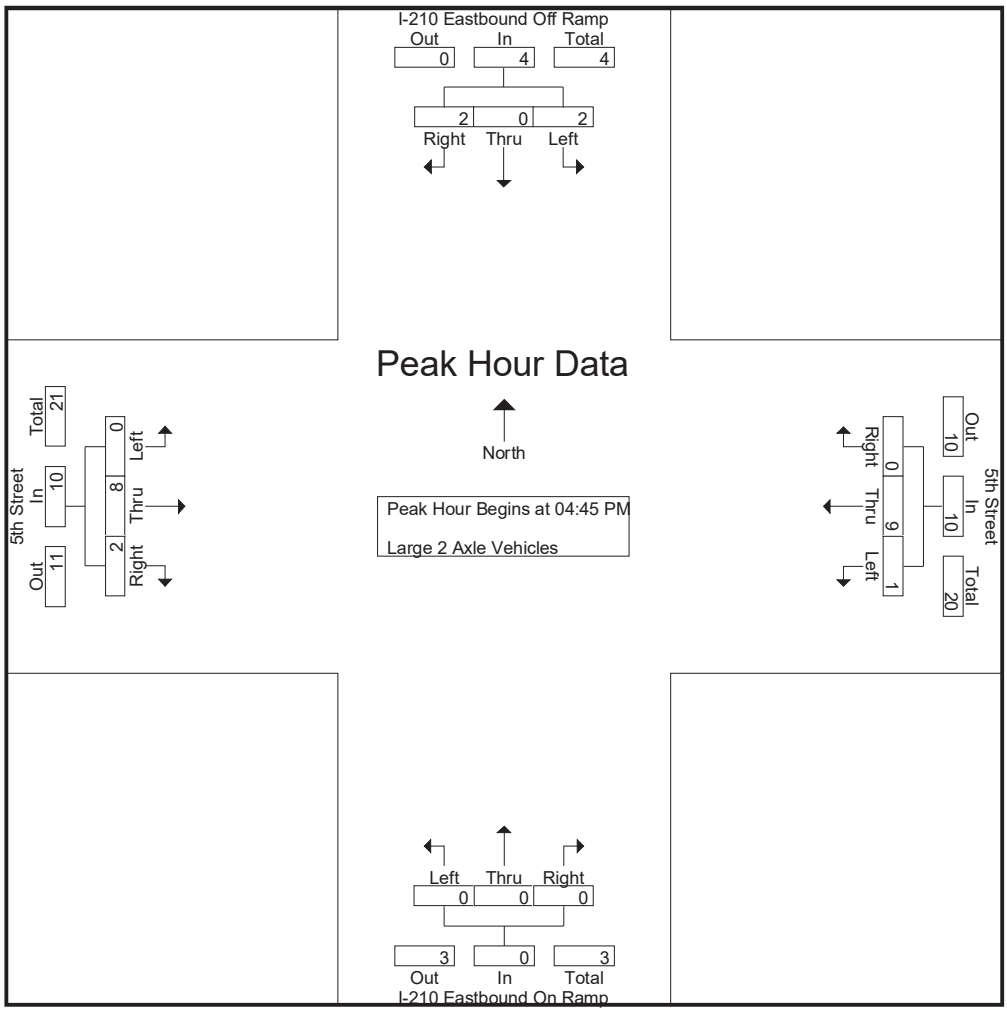
	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	5	0	4	9	3	7	0	10	0	0	0	0	0	6	5	11	30
03:15 PM	2	0	2	4	5	7	0	12	0	0	0	0	0	7	5	12	28
03:30 PM	2	0	1	3	1	9	0	10	0	0	0	0	0	3	3	6	19
03:45 PM	2	0	1	3	2	10	0	12	0	0	0	0	0	5	5	10	25
Total	11	0	8	19	11	33	0	44	0	0	0	0	0	21	18	39	102
04:00 PM	0	0	1	1	1	1	0	2	0	0	0	0	0	3	0	3	6
04:15 PM	2	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	3
04:30 PM	1	0	4	5	4	3	0	7	0	0	0	0	0	2	3	5	17
04:45 PM	0	0	1	1	0	3	0	3	0	0	0	0	0	2	0	2	6
Total	3	0	6	9	5	8	0	13	0	0	0	0	0	7	3	10	32
05:00 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	2	1	3	5
05:15 PM	1	0	0	1	1	4	0	5	0	0	0	0	0	2	1	3	9
05:30 PM	1	0	1	2	0	0	0	0	0	0	0	0	0	2	0	2	4
05:45 PM	1	0	1	2	0	0	0	0	0	0	0	0	0	1	1	2	4
Total	3	0	2	5	1	6	0	7	0	0	0	0	0	7	3	10	22
Grand Total	17	0	16	33	17	47	0	64	0	0	0	0	0	35	24	59	156
Apprch %	51.5	0	48.5		26.6	73.4	0		0	0	0		0	59.3	40.7		
Total %	10.9	0	10.3	21.2	10.9	30.1	0	41	0	0	0	0	0	22.4	15.4	37.8	

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	**1**	1	0	3	0	3	0	0	0	0	0	**2**	0	2	6
05:00 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	2	**1**	**3**	5
05:15 PM	**1**	0	0	1	**1**	**4**	0	**5**	0	0	0	0	0	2	1	3	**9**
05:30 PM	1	0	1	**2**	0	0	0	0	0	0	0	0	0	2	0	2	4
Total Volume	2	0	2	4	1	9	0	10	0	0	0	0	0	8	2	10	24
% App. Total	50	0	50		10	90	0		0	0	0		0	80	20		
PHF	.500	.000	.500	.500	.250	.563	.000	.500	.000	.000	.000	.000	.000	1.00	.500	.833	.667

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	**1**	1	0	3	0	3	0	0	0	0	0	**2**	0	2
+15 mins.	0	0	0	0	0	2	0	2	0	0	0	0	0	2	**1**	**3**
+30 mins.	**1**	0	0	1	**1**	**4**	0	**5**	0	0	0	0	0	2	1	3
+45 mins.	1	0	1	**2**	0	0	0	0	0	0	0	0	0	2	0	2
Total Volume	2	0	2	4	1	9	0	10	0	0	0	0	0	8	2	10
% App. Total	50	0	50		10	90	0		0	0	0		0	80	20	
PHF	.500	.000	.500	.500	.250	.563	.000	.500	.000	.000	.000	.000	.000	1.000	.500	.833

Counts Unlimited
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(951) 268-6268

City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	2	3
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	4	0	4	0	0	0	0	0	0	2	2	6
03:45 PM	0	0	3	3	0	2	0	2	0	0	0	0	0	0	1	1	6
Total	0	0	3	3	0	7	0	7	0	0	0	0	0	0	5	5	15
04:00 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	0	1	1	3
04:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	2
Total	0	0	2	2	1	3	0	4	0	0	0	0	0	0	1	1	7
05:00 PM	0	0	1	1	0	3	0	3	0	0	0	0	0	1	1	2	6
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	2
Total	0	0	2	2	0	3	0	3	0	0	0	0	0	2	2	4	9
Grand Total	0	0	7	7	1	13	0	14	0	0	0	0	0	2	8	10	31
Apprch %	0	0	100		7.1	92.9	0		0	0	0		0	20	80		
Total %	0	0	22.6	22.6	3.2	41.9	0	45.2	0	0	0	0	0	6.5	25.8	32.3	

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	**1**	**1**	**1**	0	0	1	0	0	0	0	0	0	0	0	2
05:00 PM	0	0	1	1	0	**3**	0	**3**	0	0	0	0	0	**1**	**1**	**2**	**6**
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	2	2	1	3	0	4	0	0	0	0	0	2	1	3	9
% App. Total	0	0	100		25	75	0		0	0	0		0	66.7	33.3		
PHF	.000	.000	.500	.500	.250	.250	.000	.333	.000	.000	.000	.000	.000	.500	.250	.375	.375

Counts Unlimited
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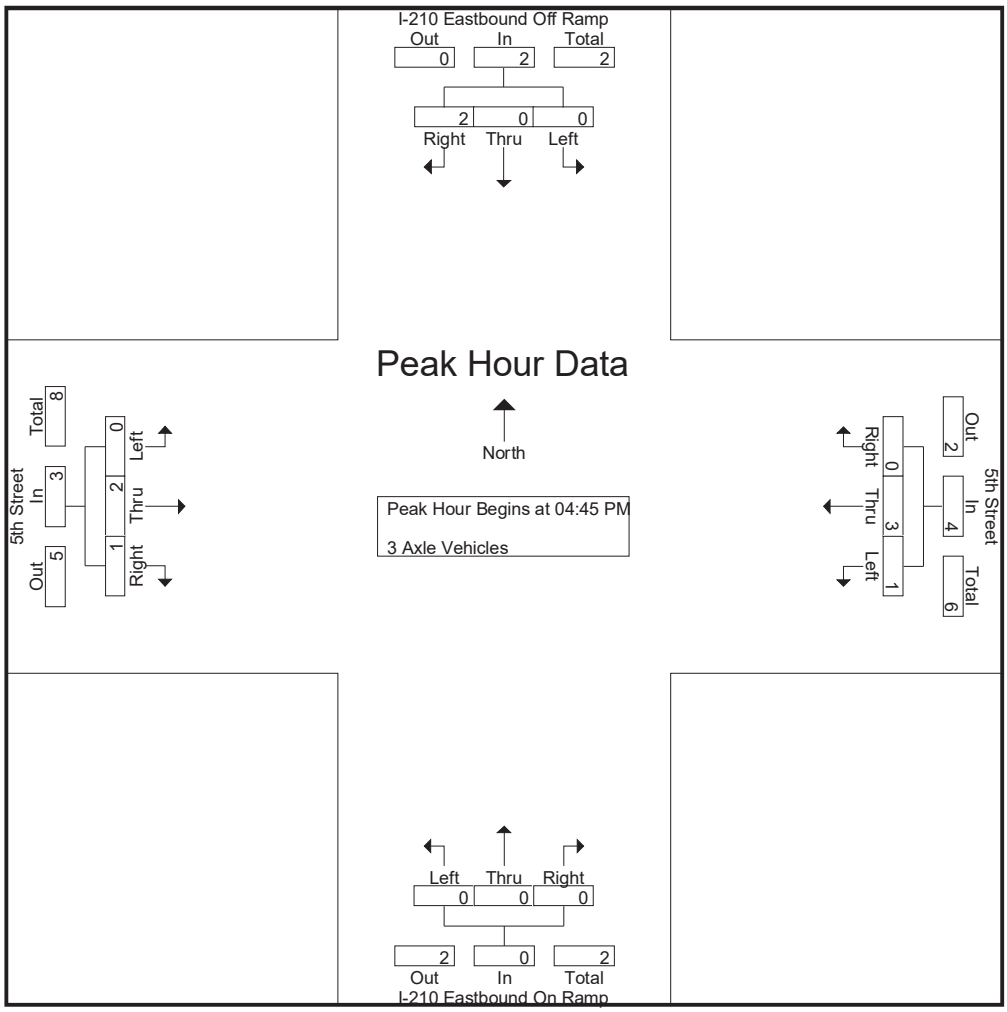
City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	**1**	**1**	**1**	0	0	1	0	0	0	0	0	0	0	0
+15 mins.	0	0	1	1	0	**3**	0	**3**	0	0	0	0	0	**1**	**1**	**2**
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	2	2	1	3	0	4	0	0	0	0	0	2	1	3
% App. Total	0	0	100		25	75	0		0	0	0		0	66.7	33.3	
PHF	.000	.000	.500	.500	.250	.250	.000	.333	.000	.000	.000	.000	.000	.500	.250	.375

Counts Unlimited
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City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	0	0	2	2	1	3	0	4	0	0	0	0	0	2	3	5	11
03:15 PM	0	0	1	1	0	6	0	6	0	0	0	0	0	0	2	2	9
03:30 PM	0	0	2	2	0	1	0	1	0	0	0	0	0	1	1	2	5
03:45 PM	1	0	5	6	0	0	0	0	0	0	0	0	0	0	1	1	7
Total	1	0	10	11	1	10	0	11	0	0	0	0	0	3	7	10	32
04:00 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	5	1	6	8
04:15 PM	0	0	3	3	0	1	0	1	0	0	0	0	0	1	5	6	10
04:30 PM	0	0	2	2	0	2	0	2	0	0	0	0	0	5	3	8	12
04:45 PM	0	0	2	2	0	0	0	0	0	0	0	0	0	4	1	5	7
Total	0	0	7	7	0	5	0	5	0	0	0	0	0	15	10	25	37
05:00 PM	0	0	1	1	0	3	0	3	0	0	0	0	0	1	2	3	7
05:15 PM	0	0	2	2	0	1	0	1	0	0	0	0	0	3	1	4	7
05:30 PM	0	0	1	1	0	1	0	1	0	0	0	0	0	1	1	2	4
05:45 PM	0	0	2	2	0	1	0	1	0	0	0	0	0	1	2	3	6
Total	0	0	6	6	0	6	0	6	0	0	0	0	0	6	6	12	24
Grand Total	1	0	23	24	1	21	0	22	0	0	0	0	0	24	23	47	93
Apprch %	4.2	0	95.8		4.5	95.5	0		0	0	0		0	51.1	48.9		
Total %	1.1	0	24.7	25.8	1.1	22.6	0	23.7	0	0	0	0	0	25.8	24.7	50.5	

	I-210 Eastbound Off Ramp Southbound				5th Street Westbound				I-210 Eastbound On Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	**2**	**2**	0	0	0	0	0	0	0	0	0	**4**	1	**5**	**7**
05:00 PM	0	0	1	1	0	**3**	0	**3**	0	0	0	0	0	1	**2**	3	7
05:15 PM	0	0	2	2	0	1	0	1	0	0	0	0	0	3	1	4	7
05:30 PM	0	0	1	1	0	1	0	1	0	0	0	0	0	1	1	2	4
Total Volume	0	0	6	6	0	5	0	5	0	0	0	0	0	9	5	14	25
% App. Total	0	0	100		0	100	0		0	0	0		0	64.3	35.7		
PHF	.000	.000	.750	.750	.000	.417	.000	.417	.000	.000	.000	.000	.000	.563	.625	.700	.893

Counts Unlimited
PO Box 1178
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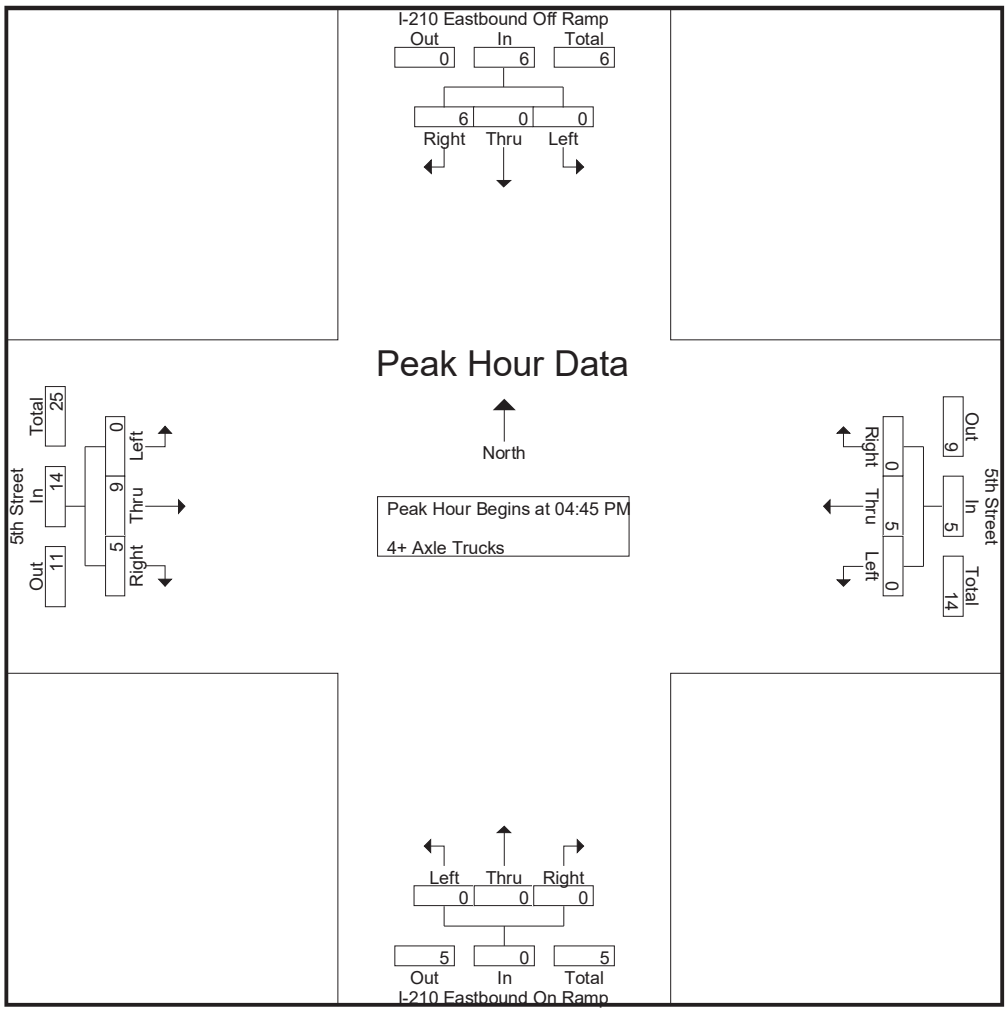
City of Highland
N/S: I-210 Eastbound Ramps
E/W: 5th Street
Weather: Clear

File Name : 83_HLD_210E_5th PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	**2**	**2**	0	0	0	0	0	0	0	0	0	**4**	1	**5**
+15 mins.	0	0	1	1	0	**3**	0	**3**	0	0	0	0	0	1	**2**	3
+30 mins.	0	0	2	2	0	1	0	1	0	0	0	0	0	3	1	4
+45 mins.	0	0	1	1	0	1	0	1	0	0	0	0	0	1	1	2
Total Volume	0	0	6	6	0	5	0	5	0	0	0	0	0	9	5	14
% App. Total	0	0	100		0	100	0		0	0	0		0	64.3	35.7	
PHF	.000	.000	.750	.750	.000	.417	.000	.417	.000	.000	.000	.000	.000	.563	.625	.700

Counts Unlimited
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City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	0	106	26	132	50	0	47	97	5	40	0	45	274
06:15 AM	0	0	0	0	0	127	35	162	46	0	33	79	8	38	0	46	287
06:30 AM	0	0	0	0	0	162	51	213	64	0	29	93	17	55	0	72	378
06:45 AM	0	0	0	0	0	190	47	237	73	0	47	120	14	38	0	52	409
Total	0	0	0	0	0	585	159	744	233	0	156	389	44	171	0	215	1348
07:00 AM	0	0	0	0	0	205	77	282	104	0	58	162	20	56	0	76	520
07:15 AM	0	0	0	0	0	282	99	381	91	0	61	152	22	70	0	92	625
07:30 AM	0	0	0	0	0	319	116	435	80	0	73	153	10	89	0	99	687
07:45 AM	0	0	0	0	0	377	91	468	98	0	70	168	16	90	0	106	742
Total	0	0	0	0	0	1183	383	1566	373	0	262	635	68	305	0	373	2574
08:00 AM	0	0	0	0	0	315	78	393	72	0	69	141	12	78	0	90	624
08:15 AM	0	0	0	0	0	285	98	383	72	0	78	150	13	84	0	97	630
08:30 AM	0	0	0	0	0	231	75	306	62	1	96	159	19	110	0	129	594
08:45 AM	0	0	0	0	0	201	62	263	60	0	79	139	23	99	0	122	524
Total	0	0	0	0	0	1032	313	1345	266	1	322	589	67	371	0	438	2372
Grand Total	0	0	0	0	0	2800	855	3655	872	1	740	1613	179	847	0	1026	6294
Apprch %	0	0	0		0	76.6	23.4		54.1	0.1	45.9		17.4	82.6	0		
Total %	0	0	0	0	0	44.5	13.6	58.1	13.9	0	11.8	25.6	2.8	13.5	0	16.3	
Passenger Vehicles	0	0	0	0	0	2738	838	3576	821	0	686	1507	127	801	0	928	6011
% Passenger Vehicles	0	0	0	0	0	97.8	98	97.8	94.2	0	92.7	93.4	70.9	94.6	0	90.4	95.5
Large 2 Axle Vehicles	0	0	0	0	0	24	7	31	11	1	19	31	4	22	0	26	88
% Large 2 Axle Vehicles	0	0	0	0	0	0.9	0.8	0.8	1.3	100	2.6	1.9	2.2	2.6	0	2.5	1.4
3 Axle Vehicles	0	0	0	0	0	12	4	16	10	0	6	16	26	11	0	37	69
% 3 Axle Vehicles	0	0	0	0	0	0.4	0.5	0.4	1.1	0	0.8	1	14.5	1.3	0	3.6	1.1
4+ Axle Trucks	0	0	0	0	0	26	6	32	30	0	29	59	22	13	0	35	126
% 4+ Axle Trucks	0	0	0	0	0	0.9	0.7	0.9	3.4	0	3.9	3.7	12.3	1.5	0	3.4	2

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	319	**116**	435	80	0	73	153	10	89	0	99	687
07:45 AM	0	0	0	0	0	**377**	91	**468**	**98**	0	70	**168**	**16**	**90**	0	**106**	**742**
08:00 AM	0	0	0	0	0	315	78	393	72	0	69	141	12	78	0	90	624
08:15 AM	0	0	0	0	0	285	98	383	72	0	**78**	150	13	84	0	97	630
Total Volume	0	0	0	0	0	1296	383	1679	322	0	290	612	51	341	0	392	2683
% App. Total	0	0	0		0	77.2	22.8		52.6	0	47.4		13	87	0		
PHF	.000	.000	.000	.000	.000	.859	.825	.897	.821	.000	.929	.911	.797	.947	.000	.925	.904

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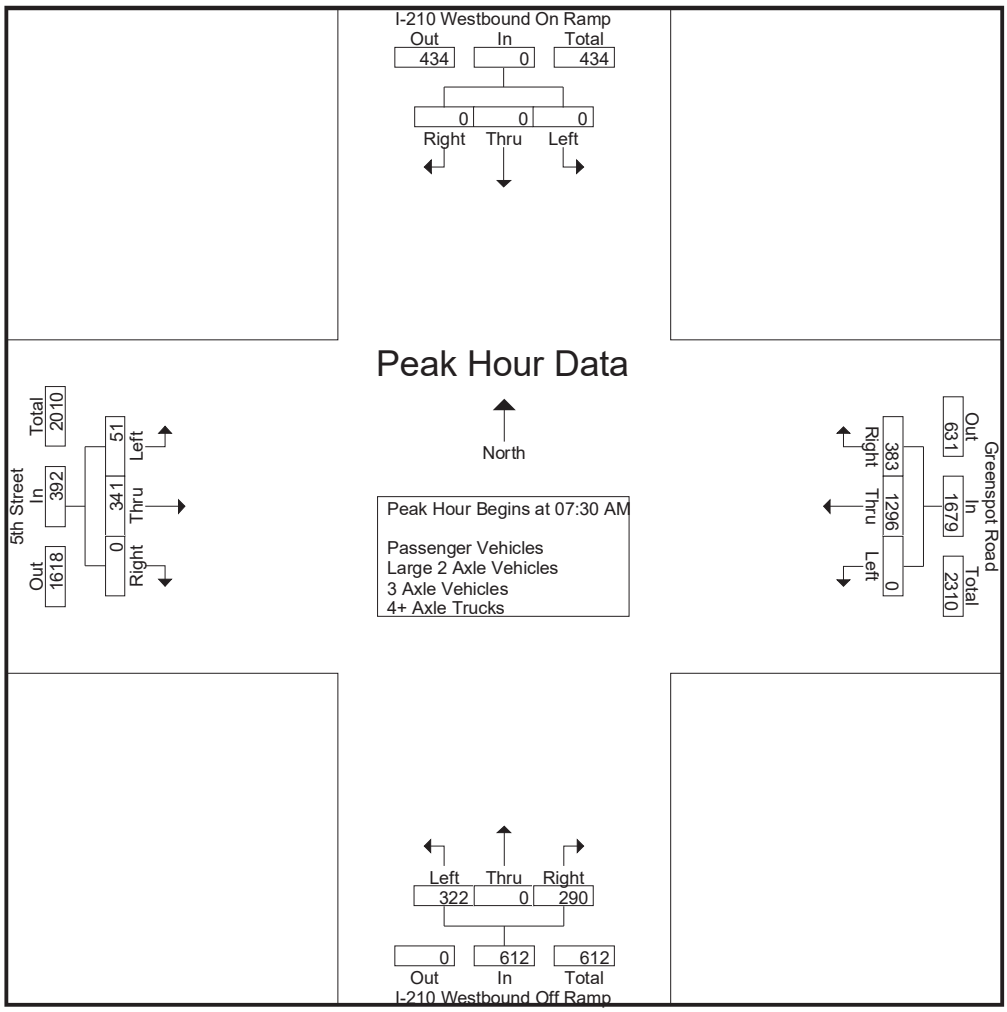
City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	06:00 AM				07:30 AM				07:00 AM				08:00 AM			
+0 mins.	0	0	0	0	0	319	**116**	435	**104**	0	58	162	12	78	0	90
+15 mins.	0	0	0	0	0	**377**	91	**468**	91	0	61	152	13	84	0	97
+30 mins.	0	0	0	0	0	315	78	393	80	0	**73**	153	19	**110**	0	**129**
+45 mins.	0	0	0	0	0	285	98	383	98	0	70	**168**	**23**	99	0	122
Total Volume	0	0	0	0	0	1296	383	1679	373	0	262	635	67	371	0	438
% App. Total	0	0	0		0	77.2	22.8		58.7	0	41.3		15.3	84.7	0	
PHF	.000	.000	.000	.000	.000	.859	.825	.897	.897	.000	.897	.945	.728	.843	.000	.849

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City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	0	99	26	125	49	0	42	91	5	38	0	43	259
06:15 AM	0	0	0	0	0	123	35	158	45	0	33	78	6	37	0	43	279
06:30 AM	0	0	0	0	0	161	48	209	62	0	22	84	13	52	0	65	358
06:45 AM	0	0	0	0	0	187	47	234	68	0	44	112	12	38	0	50	396
Total	0	0	0	0	0	570	156	726	224	0	141	365	36	165	0	201	1292
07:00 AM	0	0	0	0	0	201	77	278	99	0	54	153	15	51	0	66	497
07:15 AM	0	0	0	0	0	278	93	371	90	0	55	145	17	69	0	86	602
07:30 AM	0	0	0	0	0	313	116	429	74	0	68	142	7	86	0	93	664
07:45 AM	0	0	0	0	0	369	89	458	93	0	65	158	7	82	0	89	705
Total	0	0	0	0	0	1161	375	1536	356	0	242	598	46	288	0	334	2468
08:00 AM	0	0	0	0	0	310	77	387	70	0	67	137	8	75	0	83	607
08:15 AM	0	0	0	0	0	279	96	375	61	0	72	133	11	77	0	88	596
08:30 AM	0	0	0	0	0	226	73	299	54	0	89	143	14	101	0	115	557
08:45 AM	0	0	0	0	0	192	61	253	56	0	75	131	12	95	0	107	491
Total	0	0	0	0	0	1007	307	1314	241	0	303	544	45	348	0	393	2251
Grand Total	0	0	0	0	0	2738	838	3576	821	0	686	1507	127	801	0	928	6011
Apprch %	0	0	0		0	76.6	23.4		54.5	0	45.5		13.7	86.3	0		
Total %	0	0	0	0	0	45.5	13.9	59.5	13.7	0	11.4	25.1	2.1	13.3	0	15.4	

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	313	**116**	429	74	0	68	142	7	**86**	0	**93**	664
07:45 AM	0	0	0	0	0	**369**	89	**458**	**93**	0	65	**158**	7	82	0	89	**705**
08:00 AM	0	0	0	0	0	310	77	387	70	0	67	137	8	75	0	83	607
08:15 AM	0	0	0	0	0	279	96	375	61	0	**72**	133	**11**	77	0	88	596
Total Volume	0	0	0	0	0	1271	378	1649	298	0	272	570	33	320	0	353	2572
% App. Total	0	0	0		0	77.1	22.9		52.3	0	47.7		9.3	90.7	0		
PHF	.000	.000	.000	.000	.000	.861	.815	.900	.801	.000	.944	.902	.750	.930	.000	.949	.912

Counts Unlimited
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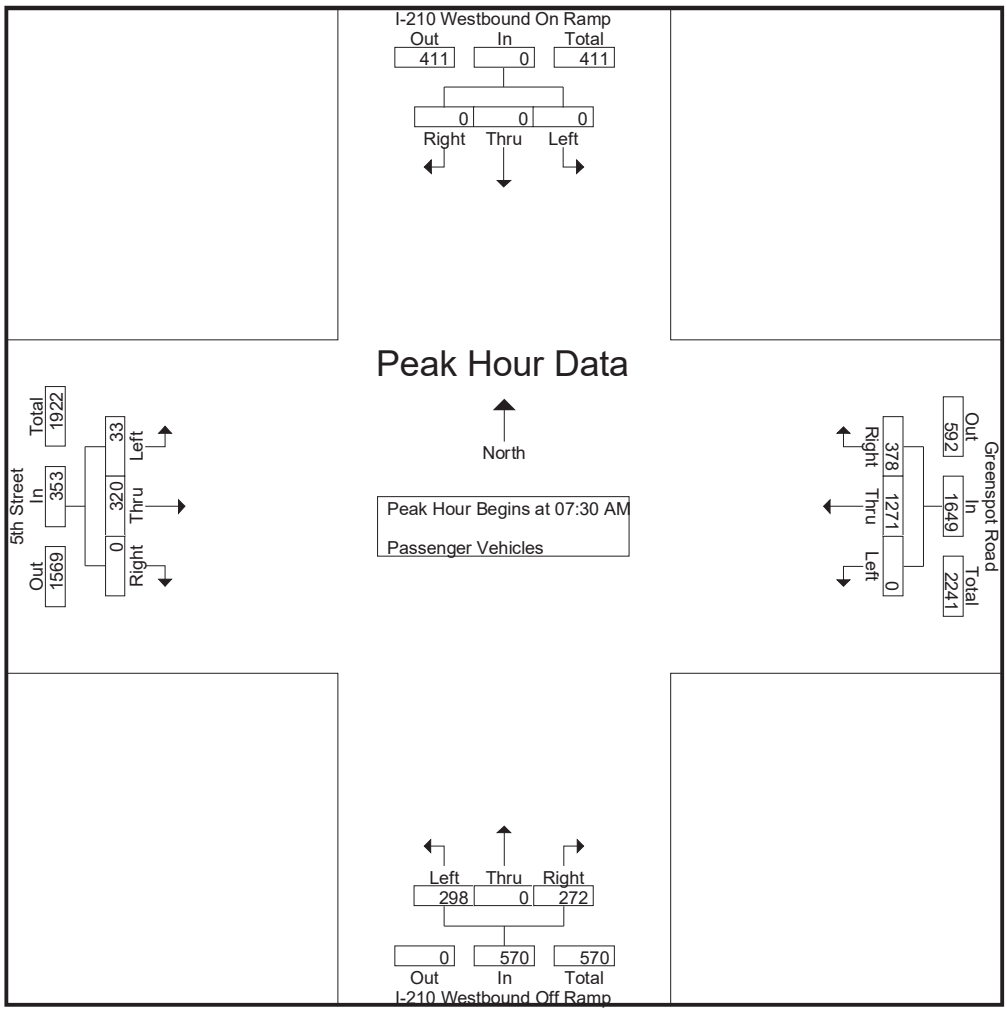
City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	0	313	**116**	429	74	0	68	142	7	**86**	0	**93**
+15 mins.	0	0	0	0	0	**369**	89	**458**	**93**	0	65	**158**	7	82	0	89
+30 mins.	0	0	0	0	0	310	77	387	70	0	67	137	8	75	0	83
+45 mins.	0	0	0	0	0	279	96	375	61	0	**72**	133	**11**	77	0	88
Total Volume	0	0	0	0	0	1271	378	1649	298	0	272	570	33	320	0	353
% App. Total	0	0	0		0	77.1	22.9		52.3	0	47.7		9.3	90.7	0	
PHF	.000	.000	.000	.000	.000	.861	.815	.900	.801	.000	.944	.902	.750	.930	.000	.949

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018

Groups Printed- Large 2 Axle Vehicles

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	1	0	1	4
06:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
06:30 AM	0	0	0	0	0	1	1	2	1	0	3	4	1	1	0	2	8
06:45 AM	0	0	0	0	0	2	0	2	2	0	1	3	0	0	0	0	5
Total	0	0	0	0	0	6	1	7	3	0	4	7	1	3	0	4	18
07:00 AM	0	0	0	0	0	2	0	2	1	0	1	2	1	2	0	3	7
07:15 AM	0	0	0	0	0	2	3	5	0	0	3	3	0	1	0	1	9
07:30 AM	0	0	0	0	0	0	0	0	1	0	2	3	0	1	0	1	4
07:45 AM	0	0	0	0	0	4	1	5	1	0	1	2	0	4	0	4	11
Total	0	0	0	0	0	8	4	12	3	0	7	10	1	8	0	9	31
08:00 AM	0	0	0	0	0	1	0	1	1	0	0	1	0	1	0	1	3
08:15 AM	0	0	0	0	0	2	0	2	2	0	3	5	0	3	0	3	10
08:30 AM	0	0	0	0	0	4	2	6	1	1	4	6	0	4	0	4	16
08:45 AM	0	0	0	0	0	3	0	3	1	0	1	2	2	3	0	5	10
Total	0	0	0	0	0	10	2	12	5	1	8	14	2	11	0	13	39
Grand Total	0	0	0	0	0	24	7	31	11	1	19	31	4	22	0	26	88
Apprch %	0	0	0		0	77.4	22.6		35.5	3.2	61.3		15.4	84.6	0		
Total %	0	0	0	0	0	27.3	8	35.2	12.5	1.1	21.6	35.2	4.5	25	0	29.5	

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	0	0	0	1	0	2	3	0	1	0	1	4
07:45 AM	0	0	0	0	0	**4**	**1**	**5**	1	0	1	2	0	**4**	0	**4**	**11**
08:00 AM	0	0	0	0	0	1	0	1	1	0	0	1	0	1	0	1	3
08:15 AM	0	0	0	0	0	2	0	2	**2**	0	**3**	**5**	0	3	0	3	10
Total Volume	0	0	0	0	0	7	1	8	5	0	6	11	0	9	0	9	28
% App. Total	0	0	0		0	87.5	12.5		45.5	0	54.5		0	100	0		
PHF	.000	.000	.000	.000	.000	.438	.250	.400	.625	.000	.500	.550	.000	.563	.000	.563	.636

Counts Unlimited
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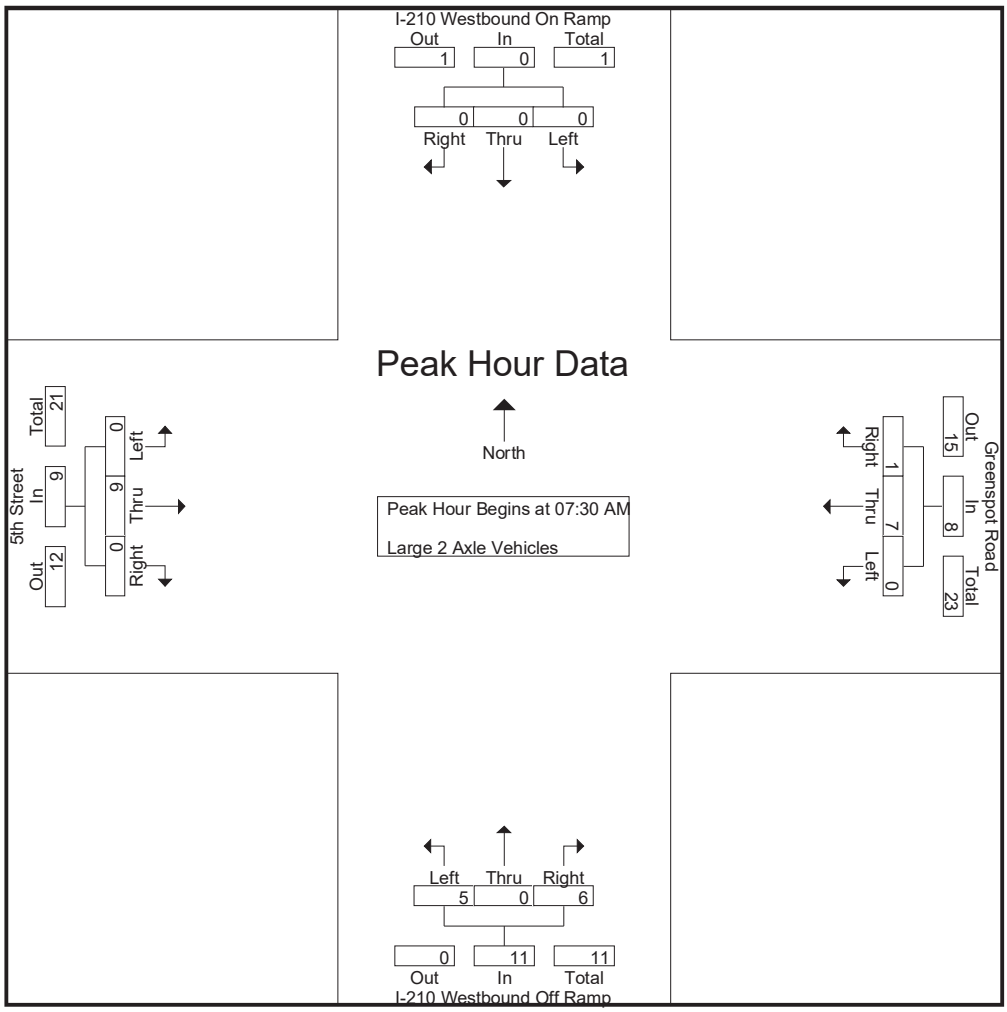
City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	0	0	0	0	1	0	2	3	0	1	0	1
+15 mins.	0	0	0	0	0	**4**	**1**	**5**	1	0	1	2	0	**4**	0	**4**
+30 mins.	0	0	0	0	0	1	0	1	1	0	0	1	0	1	0	1
+45 mins.	0	0	0	0	0	2	0	2	**2**	0	**3**	**5**	0	3	0	3
Total Volume	0	0	0	0	0	7	1	8	5	0	6	11	0	9	0	9
% App. Total	0	0	0		0	87.5	12.5		45.5	0	54.5		0	100	0	
PHF	.000	.000	.000	.000	.000	.438	.250	.400	.625	.000	.500	.550	.000	.563	.000	.563

Counts Unlimited
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City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	0	3	0	3	1	0	2	3	0	0	0	0	6
06:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 AM	0	0	0	0	0	0	2	2	0	0	0	0	2	1	0	3	5
06:45 AM	0	0	0	0	0	0	0	0	2	0	1	3	0	0	0	0	3
Total	0	0	0	0	0	3	2	5	3	0	3	6	2	1	0	3	14
07:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	3	2	0	5	6
07:15 AM	0	0	0	0	0	1	1	2	1	0	0	1	4	0	0	4	7
07:30 AM	0	0	0	0	0	1	0	1	2	0	2	4	0	1	0	1	6
07:45 AM	0	0	0	0	0	1	0	1	1	0	0	1	6	2	0	8	10
Total	0	0	0	0	0	3	1	4	5	0	2	7	13	5	0	18	29
08:00 AM	0	0	0	0	0	2	0	2	0	0	0	0	3	1	0	4	6
08:15 AM	0	0	0	0	0	2	1	3	1	0	0	1	1	2	0	3	7
08:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	3	2	0	5	6
08:45 AM	0	0	0	0	0	2	0	2	0	0	1	1	4	0	0	4	7
Total	0	0	0	0	0	6	1	7	2	0	1	3	11	5	0	16	26
Grand Total	0	0	0	0	0	12	4	16	10	0	6	16	26	11	0	37	69
Apprch %	0	0	0		0	75	25		62.5	0	37.5		70.3	29.7	0		
Total %	0	0	0	0	0	17.4	5.8	23.2	14.5	0	8.7	23.2	37.7	15.9	0	53.6	

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	1	0	1	**2**	0	**2**	**4**	0	1	0	1	6
07:45 AM	0	0	0	0	0	1	0	1	1	0	0	1	**6**	**2**	0	**8**	**10**
08:00 AM	0	0	0	0	0	**2**	0	2	0	0	0	0	3	1	0	4	6
08:15 AM	0	0	0	0	0	2	**1**	**3**	1	0	0	1	1	2	0	3	7
Total Volume	0	0	0	0	0	6	1	7	4	0	2	6	10	6	0	16	29
% App. Total	0	0	0		0	85.7	14.3		66.7	0	33.3		62.5	37.5	0		
PHF	.000	.000	.000	.000	.000	.750	.250	.583	.500	.000	.250	.375	.417	.750	.000	.500	.725

Counts Unlimited
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Corona, CA 92878
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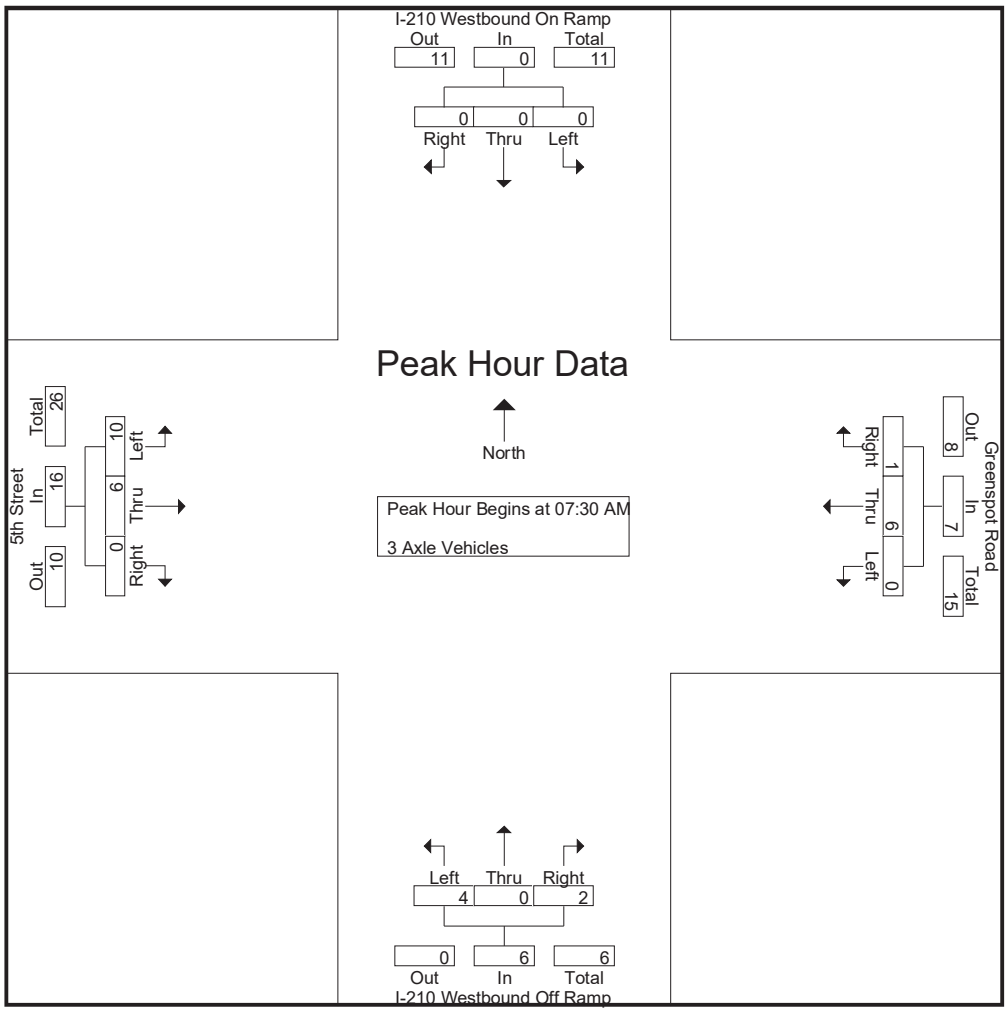
City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	0	1	0	1	**2**	0	**2**	**4**	0	1	0	1
+15 mins.	0	0	0	0	0	1	0	1	1	0	0	1	**6**	**2**	0	**8**
+30 mins.	0	0	0	0	0	**2**	0	2	0	0	0	0	3	1	0	4
+45 mins.	0	0	0	0	0	2	**1**	**3**	1	0	0	1	1	2	0	3
Total Volume	0	0	0	0	0	6	1	7	4	0	2	6	10	6	0	16
% App. Total	0	0	0		0	85.7	14.3		66.7	0	33.3		62.5	37.5	0	
PHF	.000	.000	.000	.000	.000	.750	.250	.583	.500	.000	.250	.375	.417	.750	.000	.500

Counts Unlimited
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City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018

Groups Printed- 4+ Axle Trucks

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
06:00 AM	0	0	0	0	0	1	0	1	0	0	3	3	0	1	0	1	5
06:15 AM	0	0	0	0	0	4	0	4	1	0	0	1	2	0	0	2	7
06:30 AM	0	0	0	0	0	0	0	0	1	0	4	5	1	1	0	2	7
06:45 AM	0	0	0	0	0	1	0	1	1	0	1	2	2	0	0	2	5
Total	0	0	0	0	0	6	0	6	3	0	8	11	5	2	0	7	24
07:00 AM	0	0	0	0	0	2	0	2	3	0	3	6	1	1	0	2	10
07:15 AM	0	0	0	0	0	1	2	3	0	0	3	3	1	0	0	1	7
07:30 AM	0	0	0	0	0	5	0	5	3	0	1	4	3	1	0	4	13
07:45 AM	0	0	0	0	0	3	1	4	3	0	4	7	3	2	0	5	16
Total	0	0	0	0	0	11	3	14	9	0	11	20	8	4	0	12	46
08:00 AM	0	0	0	0	0	2	1	3	1	0	2	3	1	1	0	2	8
08:15 AM	0	0	0	0	0	2	1	3	8	0	3	11	1	2	0	3	17
08:30 AM	0	0	0	0	0	1	0	1	6	0	3	9	2	3	0	5	15
08:45 AM	0	0	0	0	0	4	1	5	3	0	2	5	5	1	0	6	16
Total	0	0	0	0	0	9	3	12	18	0	10	28	9	7	0	16	56
Grand Total	0	0	0	0	0	26	6	32	30	0	29	59	22	13	0	35	126
Apprch %	0	0	0		0	81.2	18.8		50.8	0	49.2		62.9	37.1	0		
Total %	0	0	0	0	0	20.6	4.8	25.4	23.8	0	23	46.8	17.5	10.3	0	27.8	

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	**5**	0	**5**	3	0	1	4	**3**	1	0	4	13
07:45 AM	0	0	0	0	0	3	**1**	4	3	0	**4**	7	3	**2**	0	**5**	16
08:00 AM	0	0	0	0	0	2	1	3	1	0	2	3	1	1	0	2	8
08:15 AM	0	0	0	0	0	2	1	3	**8**	0	3	**11**	1	2	0	3	**17**
Total Volume	0	0	0	0	0	12	3	15	15	0	10	25	8	6	0	14	54
% App. Total	0	0	0		0	80	20		60	0	40		57.1	42.9	0		
PHF	.000	.000	.000	.000	.000	.600	.750	.750	.469	.000	.625	.568	.667	.750	.000	.700	.794

Counts Unlimited
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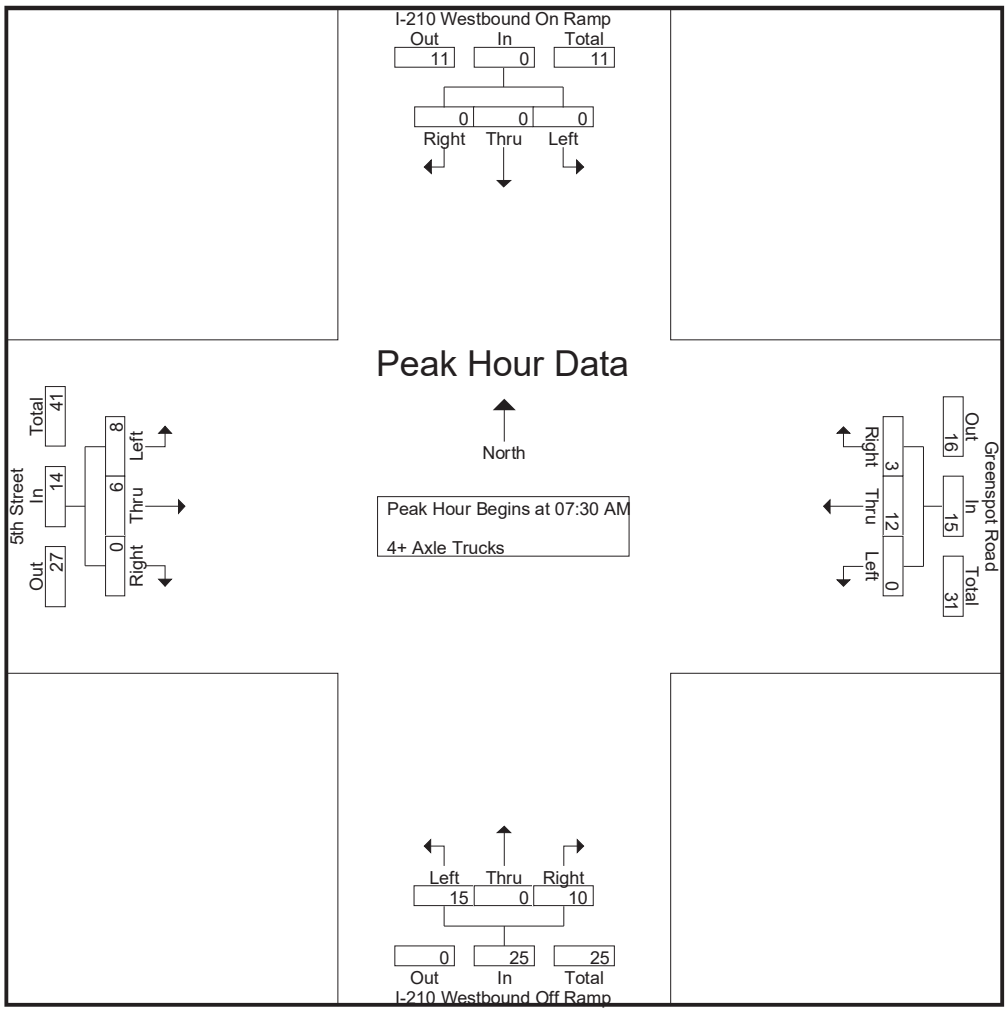
City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot AM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	0	**5**	0	**5**	3	0	1	4	**3**	1	0	4
+15 mins.	0	0	0	0	0	3	**1**	4	3	0	**4**	7	3	**2**	0	**5**
+30 mins.	0	0	0	0	0	2	1	3	1	0	2	3	1	1	0	2
+45 mins.	0	0	0	0	0	2	1	3	**8**	0	3	**11**	1	2	0	3
Total Volume	0	0	0	0	0	12	3	15	15	0	10	25	8	6	0	14
% App. Total	0	0	0		0	80	20		60	0	40		57.1	42.9	0	
PHF	.000	.000	.000	.000	.000	.600	.750	.750	.469	.000	.625	.568	.667	.750	.000	.700

Counts Unlimited
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City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	0	0	0	0	0	126	64	190	68	0	110	178	32	123	0	155	523
03:15 PM	0	0	0	0	0	128	70	198	56	0	105	161	43	145	0	188	547
03:30 PM	0	0	0	0	0	155	70	225	63	0	115	178	35	123	0	158	561
03:45 PM	0	0	0	0	0	128	91	219	63	0	117	180	43	146	0	189	588
Total	0	0	0	0	0	537	295	832	250	0	447	697	153	537	0	690	2219
04:00 PM	0	0	0	0	0	161	73	234	47	0	101	148	29	192	0	221	603
04:15 PM	0	0	0	0	0	160	59	219	39	0	118	157	32	218	0	250	626
04:30 PM	0	0	0	0	0	162	53	215	34	0	87	121	50	228	0	278	614
04:45 PM	0	0	0	0	0	149	38	187	53	0	100	153	46	249	0	295	635
Total	0	0	0	0	0	632	223	855	173	0	406	579	157	887	0	1044	2478
05:00 PM	0	0	0	0	0	142	63	205	48	0	117	165	38	231	0	269	639
05:15 PM	0	0	0	0	0	134	66	200	34	0	103	137	50	308	0	358	695
05:30 PM	0	0	0	0	0	136	59	195	46	0	119	165	48	267	0	315	675
05:45 PM	0	0	0	0	0	157	78	235	57	0	94	151	31	223	0	254	640
Total	0	0	0	0	0	569	266	835	185	0	433	618	167	1029	0	1196	2649
Grand Total	0	0	0	0	0	1738	784	2522	608	0	1286	1894	477	2453	0	2930	7346
Apprch %	0	0	0		0	68.9	31.1		32.1	0	67.9		16.3	83.7	0		
Total %	0	0	0	0	0	23.7	10.7	34.3	8.3	0	17.5	25.8	6.5	33.4	0	39.9	
Passenger Vehicles	0	0	0	0	0	1717	765	2482	565	0	1281	1846	440	2428	0	2868	7196
% Passenger Vehicles	0	0	0	0	0	98.8	97.6	98.4	92.9	0	99.6	97.5	92.2	99	0	97.9	98
Large 2 Axle Vehicles	0	0	0	0	0	13	18	31	12	0	3	15	14	21	0	35	81
% Large 2 Axle Vehicles	0	0	0	0	0	0.7	2.3	1.2	2	0	0.2	0.8	2.9	0.9	0	1.2	1.1
3 Axle Vehicles	0	0	0	0	0	4	0	4	12	0	0	12	1	1	0	2	18
% 3 Axle Vehicles	0	0	0	0	0	0.2	0	0.2	2	0	0	0.6	0.2	0	0	0.1	0.2
4+ Axle Trucks	0	0	0	0	0	4	1	5	19	0	2	21	22	3	0	25	51
% 4+ Axle Trucks	0	0	0	0	0	0.2	0.1	0.2	3.1	0	0.2	1.1	4.6	0.1	0	0.9	0.7

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	142	63	205	48	0	117	**165**	38	231	0	269	639
05:15 PM	0	0	0	0	0	134	66	200	34	0	103	137	**50**	**308**	0	**358**	**695**
05:30 PM	0	0	0	0	0	136	59	195	46	0	**119**	165	48	267	0	315	675
05:45 PM	0	0	0	0	0	**157**	**78**	**235**	**57**	0	94	151	31	223	0	254	640
Total Volume	0	0	0	0	0	569	266	835	185	0	433	618	167	1029	0	1196	2649
% App. Total	0	0	0		0	68.1	31.9		29.9	0	70.1		14	86	0		
PHF	.000	.000	.000	.000	.000	.906	.853	.888	.811	.000	.910	.936	.835	.835	.000	.835	.953

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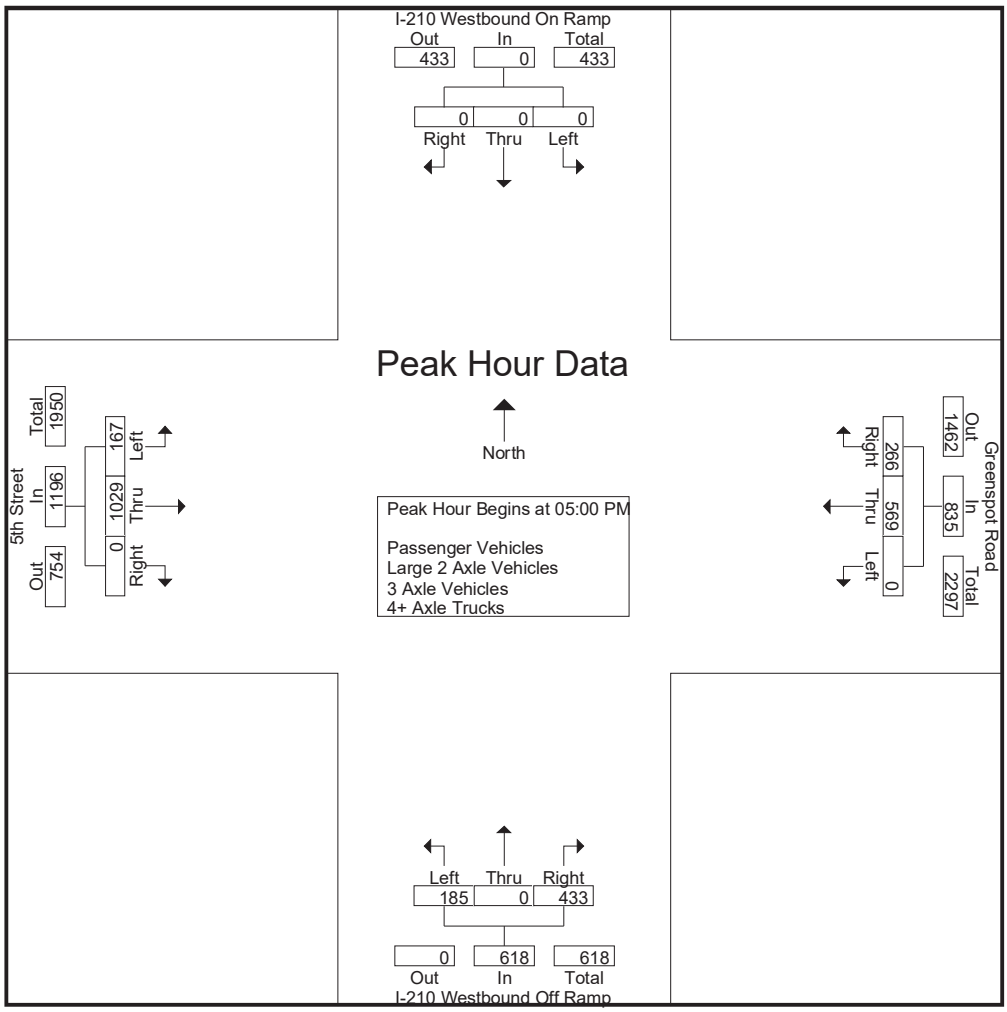
City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	03:00 PM				03:30 PM				03:00 PM				04:45 PM			
+0 mins.	0	0	0	0	0	155	70	225	**68**	0	110	178	46	249	0	295
+15 mins.	0	0	0	0	0	128	**91**	219	56	0	105	161	38	231	0	269
+30 mins.	0	0	0	0	0	**161**	73	**234**	63	0	115	178	**50**	**308**	0	**358**
+45 mins.	0	0	0	0	0	160	59	219	63	0	**117**	**180**	48	267	0	315
Total Volume	0	0	0	0	0	604	293	897	250	0	447	697	182	1055	0	1237
% App. Total	0	0	0		0	67.3	32.7		35.9	0	64.1		14.7	85.3	0	
PHF	.000	.000	.000	.000	.000	.938	.805	.958	.919	.000	.955	.968	.910	.856	.000	.864

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City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	0	0	0	0	0	124	61	185	63	0	108	171	29	120	0	149	505
03:15 PM	0	0	0	0	0	128	69	197	49	0	105	154	40	145	0	185	536
03:30 PM	0	0	0	0	0	151	70	221	60	0	115	175	33	122	0	155	551
03:45 PM	0	0	0	0	0	127	85	212	61	0	116	177	42	142	0	184	573
Total	0	0	0	0	0	530	285	815	233	0	444	677	144	529	0	673	2165
04:00 PM	0	0	0	0	0	159	68	227	43	0	100	143	24	191	0	215	585
04:15 PM	0	0	0	0	0	159	58	217	36	0	118	154	29	217	0	246	617
04:30 PM	0	0	0	0	0	156	51	207	31	0	87	118	45	226	0	271	596
04:45 PM	0	0	0	0	0	148	38	186	51	0	100	151	40	247	0	287	624
Total	0	0	0	0	0	622	215	837	161	0	405	566	138	881	0	1019	2422
05:00 PM	0	0	0	0	0	140	63	203	40	0	117	157	35	228	0	263	623
05:15 PM	0	0	0	0	0	132	66	198	30	0	102	132	47	305	0	352	682
05:30 PM	0	0	0	0	0	136	59	195	45	0	119	164	46	264	0	310	669
05:45 PM	0	0	0	0	0	157	77	234	56	0	94	150	30	221	0	251	635
Total	0	0	0	0	0	565	265	830	171	0	432	603	158	1018	0	1176	2609
Grand Total	0	0	0	0	0	1717	765	2482	565	0	1281	1846	440	2428	0	2868	7196
Apprch %	0	0	0		0	69.2	30.8		30.6	0	69.4		15.3	84.7	0		
Total %	0	0	0	0	0	23.9	10.6	34.5	7.9	0	17.8	25.7	6.1	33.7	0	39.9	

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	140	63	203	40	0	117	157	35	228	0	263	623
05:15 PM	0	0	0	0	0	132	66	198	30	0	102	132	**47**	**305**	0	**352**	**682**
05:30 PM	0	0	0	0	0	136	59	195	45	0	**119**	**164**	46	264	0	310	669
05:45 PM	0	0	0	0	0	**157**	**77**	**234**	**56**	0	94	150	30	221	0	251	635
Total Volume	0	0	0	0	0	565	265	830	171	0	432	603	158	1018	0	1176	2609
% App. Total	0	0	0		0	68.1	31.9		28.4	0	71.6		13.4	86.6	0		
PHF	.000	.000	.000	.000	.000	.900	.860	.887	.763	.000	.908	.919	.840	.834	.000	.835	.956

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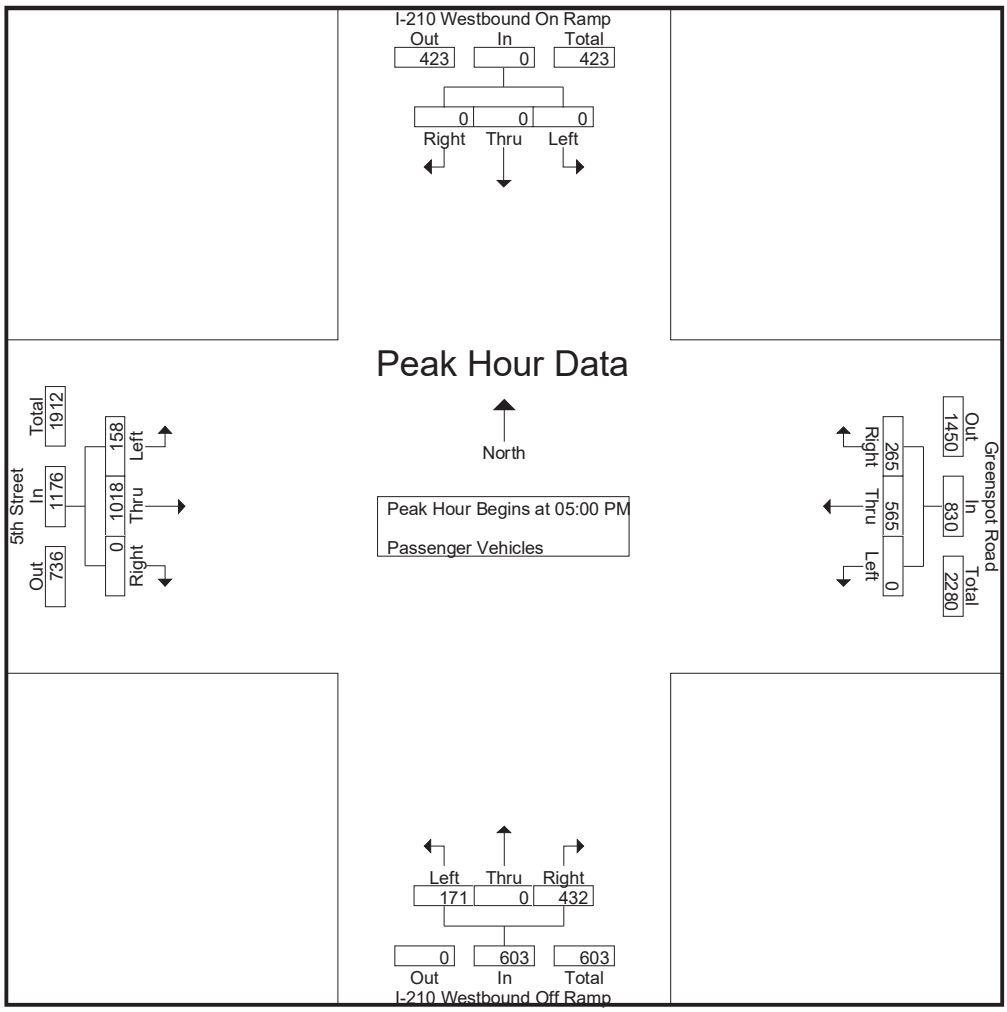
City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	140	63	203	40	0	117	157	35	228	0	263
+15 mins.	0	0	0	0	0	132	66	198	30	0	102	132	**47**	**305**	0	**352**
+30 mins.	0	0	0	0	0	136	59	195	45	0	**119**	**164**	46	264	0	310
+45 mins.	0	0	0	0	0	**157**	**77**	**234**	**56**	0	94	150	30	221	0	251
Total Volume	0	0	0	0	0	565	265	830	171	0	432	603	158	1018	0	1176
% App. Total	0	0	0		0	68.1	31.9		28.4	0	71.6		13.4	86.6	0	
PHF	.000	.000	.000	.000	.000	.900	.860	.887	.763	.000	.908	.919	.840	.834	.000	.835

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City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018

Groups Printed- Large 2 Axle Vehicles

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	0	0	0	0	0	1	3	4	2	0	1	3	1	2	0	3	10
03:15 PM	0	0	0	0	0	0	1	1	1	0	0	1	3	0	0	3	5
03:30 PM	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0	2	3
03:45 PM	0	0	0	0	0	0	5	5	0	0	1	1	1	3	0	4	10
Total	0	0	0	0	0	2	9	11	3	0	2	5	6	6	0	12	28
04:00 PM	0	0	0	0	0	2	5	7	0	0	1	1	1	1	0	2	10
04:15 PM	0	0	0	0	0	1	1	2	1	0	0	1	1	1	0	2	5
04:30 PM	0	0	0	0	0	5	2	7	1	0	0	1	2	2	0	4	12
04:45 PM	0	0	0	0	0	1	0	1	2	0	0	2	1	1	0	2	5
Total	0	0	0	0	0	9	8	17	4	0	1	5	5	5	0	10	32
05:00 PM	0	0	0	0	0	1	0	1	2	0	0	2	1	3	0	4	7
05:15 PM	0	0	0	0	0	1	0	1	3	0	0	3	1	2	0	3	7
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	4
05:45 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	2	3
Total	0	0	0	0	0	2	1	3	5	0	0	5	3	10	0	13	21
Grand Total	0	0	0	0	0	13	18	31	12	0	3	15	14	21	0	35	81
Apprch %	0	0	0		0	41.9	58.1		80	0	20		40	60	0		
Total %	0	0	0	0	0	16	22.2	38.3	14.8	0	3.7	18.5	17.3	25.9	0	43.2	

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	**1**	0	**1**	2	0	0	2	**1**	**3**	0	**4**	**7**
05:15 PM	0	0	0	0	0	1	0	1	**3**	0	0	**3**	1	2	0	3	7
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	4
05:45 PM	0	0	0	0	0	0	**1**	1	0	0	0	0	0	2	0	2	3
Total Volume	0	0	0	0	0	2	1	3	5	0	0	5	3	10	0	13	21
% App. Total	0	0	0		0	66.7	33.3		100	0	0		23.1	76.9	0		
PHF	.000	.000	.000	.000	.000	.500	.250	.750	.417	.000	.000	.417	.750	.833	.000	.813	.750

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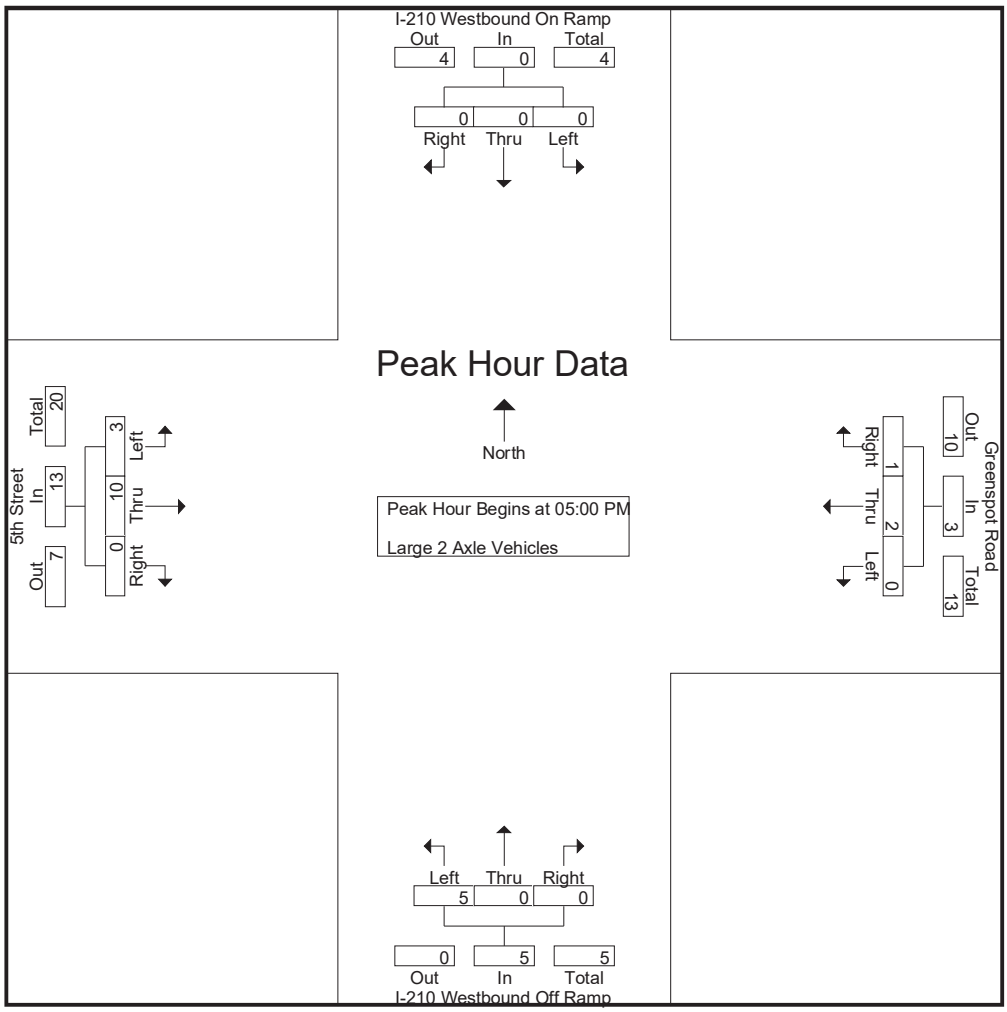
City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	**1**	0	**1**	2	0	0	2	**1**	**3**	0	**4**
+15 mins.	0	0	0	0	0	1	0	1	**3**	0	0	**3**	1	2	0	3
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
+45 mins.	0	0	0	0	0	0	**1**	1	0	0	0	0	0	2	0	2
Total Volume	0	0	0	0	0	2	1	3	5	0	0	5	3	10	0	13
% App. Total	0	0	0		0	66.7	33.3		100	0	0		23.1	76.9	0	
PHF	.000	.000	.000	.000	.000	.500	.250	.750	.417	.000	.000	.417	.750	.833	.000	.813

Counts Unlimited
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City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018

Groups Printed- 3 Axle Vehicles

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	2	0	2	2	0	0	2	0	0	0	0	4
03:45 PM	0	0	0	0	0	1	0	1	2	0	0	2	0	0	0	0	3
Total	0	0	0	0	0	3	0	3	5	0	0	5	0	0	0	0	8
04:00 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	4
05:00 PM	0	0	0	0	0	1	0	1	3	0	0	3	1	0	0	1	5
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	1	3	0	0	3	1	1	0	2	6
Grand Total	0	0	0	0	0	4	0	4	12	0	0	12	1	1	0	2	18
Apprch %	0	0	0		0	100	0		100	0	0		50	50	0		
Total %	0	0	0	0	0	22.2	0	22.2	66.7	0	0	66.7	5.6	5.6	0	11.1	

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	**1**	0	**1**	**3**	0	0	**3**	**1**	0	0	**1**	**5**
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	1	1
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	1	0	1	3	0	0	3	1	1	0	2	6
% App. Total	0	0	0		0	100	0		100	0	0		50	50	0		
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.250	.000	.000	.250	.250	.250	.000	.500	.300

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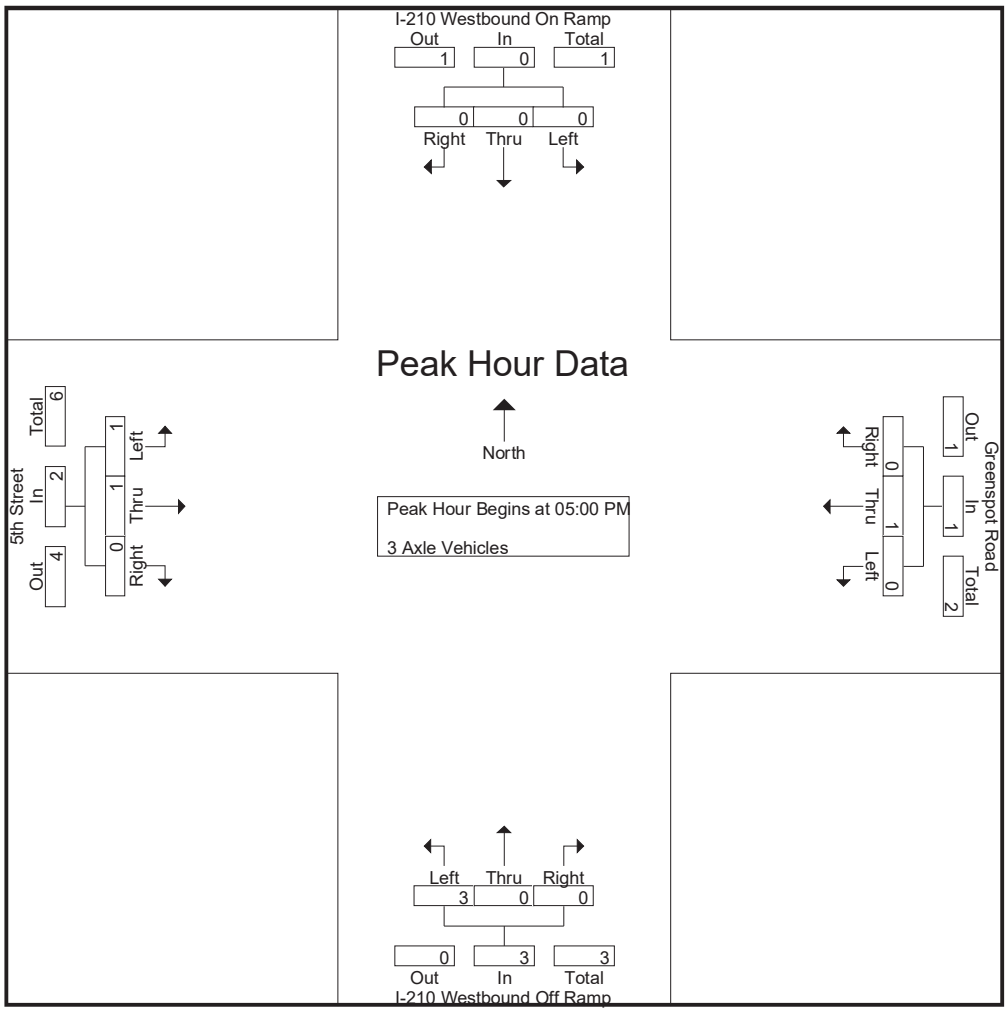
City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	**1**	0	**1**	**3**	0	0	**3**	**1**	0	0	**1**
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	1
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	1	0	1	3	0	0	3	1	1	0	2
% App. Total	0	0	0		0	100	0		100	0	0		50	50	0	
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.250	.000	.000	.250	.250	.250	.000	.500

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City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018

Groups Printed- 4+ Axle Trucks

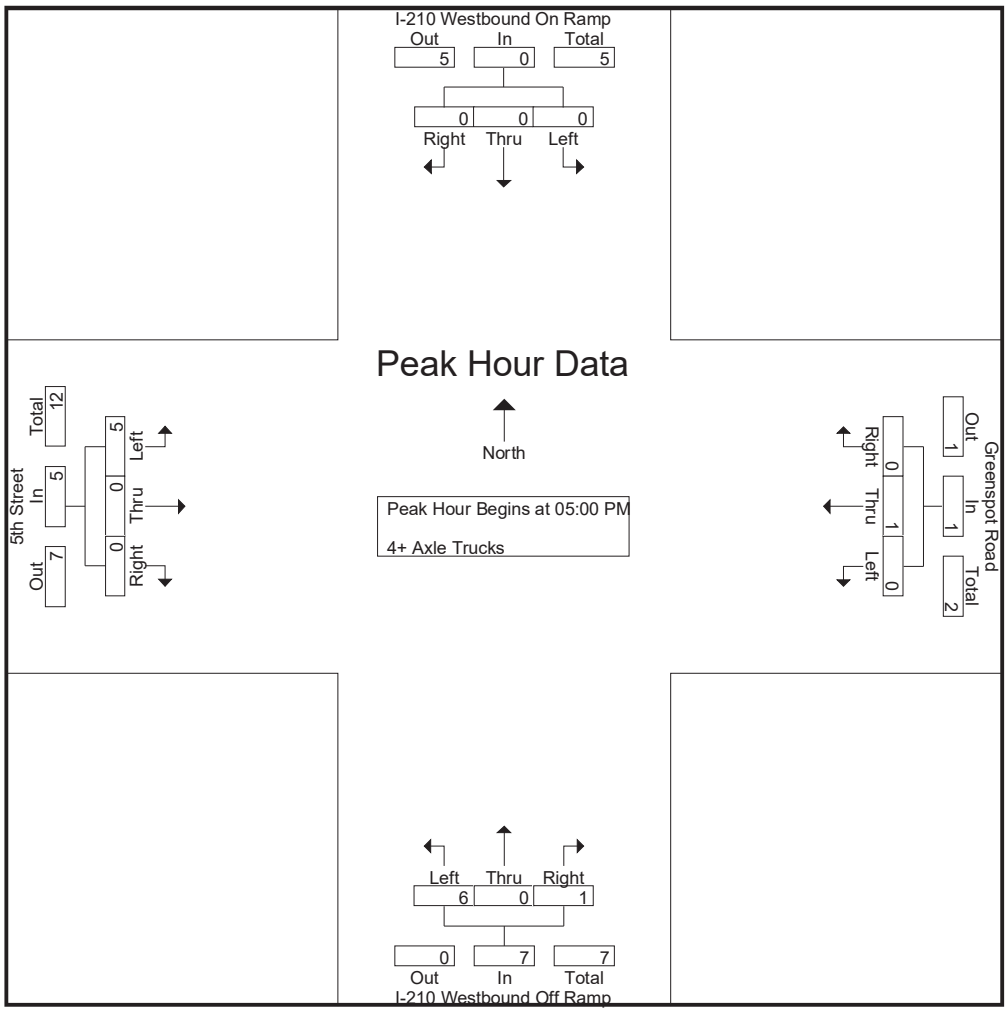
	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
03:00 PM	0	0	0	0	0	1	0	1	2	0	1	3	2	1	0	3	7
03:15 PM	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	6
03:30 PM	0	0	0	0	0	1	0	1	1	0	0	1	1	0	0	1	3
03:45 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	2
Total	0	0	0	0	0	2	1	3	9	0	1	10	3	2	0	5	18
04:00 PM	0	0	0	0	0	0	0	0	2	0	0	2	4	0	0	4	6
04:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	2	0	0	2	3
04:30 PM	0	0	0	0	0	1	0	1	1	0	0	1	3	0	0	3	5
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	6	6
Total	0	0	0	0	0	1	0	1	4	0	0	4	14	1	0	15	20
05:00 PM	0	0	0	0	0	0	0	0	3	0	0	3	1	0	0	1	4
05:15 PM	0	0	0	0	0	1	0	1	1	0	1	2	2	0	0	2	5
05:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	2
05:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	2
Total	0	0	0	0	0	1	0	1	6	0	1	7	5	0	0	5	13
Grand Total	0	0	0	0	0	4	1	5	19	0	2	21	22	3	0	25	51
Apprch %	0	0	0		0	80	20		90.5	0	9.5		88	12	0		
Total %	0	0	0	0	0	7.8	2	9.8	37.3	0	3.9	41.2	43.1	5.9	0	49	

	I-210 Westbound On Ramp Southbound				Greenspot Road Westbound				I-210 Westbound Off Ramp Northbound				5th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	**3**	0	0	**3**	1	0	0	1	4
05:15 PM	0	0	0	0	0	**1**	0	**1**	1	0	**1**	2	**2**	0	0	**2**	**5**
05:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	2
05:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	2
Total Volume	0	0	0	0	0	1	0	1	6	0	1	7	5	0	0	5	13
% App. Total	0	0	0		0	100	0		85.7	0	14.3		100	0	0		
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.500	.000	.250	.583	.625	.000	.000	.625	.650

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Highland
N/S: I-210 Westbound Ramps
E/W: 5th Street/Greenspot Road
Weather: Clear

File Name : 84_HLD_210W_5th_Greenspot PM
Site Code : 99918385
Start Date : 5/1/2018
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	**3**	0	0	**3**	1	0	0	1
+15 mins.	0	0	0	0	0	**1**	0	**1**	1	0	**1**	2	**2**	0	0	**2**
+30 mins.	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1
+45 mins.	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1
Total Volume	0	0	0	0	0	1	0	1	6	0	1	7	5	0	0	5
% App. Total	0	0	0		0	100	0		85.7	0	14.3		100	0	0	
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.500	.000	.250	.583	.625	.000	.000	.625

APPENDIX D

PCE WORKSHEETS

Existing Peak Hour Volumes - Classification Counts

2 **Palm Avenue at 5th Street**

	AM Peak Hour Volumes									PM Peak Hour Volumes								
		Truck Volumes							Total		Truck Volumes							Total
	Passenger Vehicles	2-Axle 1.5	3-Axle 2.0	4-Axle 3.0	Total Trucks	Truck %-age	PCE	Average PCE	PCE Volume	Passenger Vehicles	2-Axle 1.5	3-Axle 2.0	4-Axle 3.0	Total Trucks	Truck %-age	PCE	Average PCE	PCE Volume
NL	29	5	0	0	5	14.7%	8	1.6	37	95	1	0	1	2	2.1%	5	2.5	100
NT	166	3	0	0	3	1.8%	5	1.7	171	641	2	2	1	5	0.8%	10	2.0	651
NR	99	9	41	25	75	43.1%	171	2.3	270	561	5	3	12	20	3.4%	50	2.5	611
SL	135	5	0	0	5	3.6%	8	1.6	143	196	2	0	0	2	1.0%	3	1.5	199
ST	639	12	2	1	15	2.3%	25	1.7	664	281	1	0	0	1	0.4%	2	2.0	283
SR	79	2	0	0	2	2.5%	3	1.5	82	30	2	0	0	2	6.3%	3	1.5	33
EL	8	2	0	0	2	20.0%	3	1.5	11	76	2	0	0	2	2.6%	3	1.5	79
ET	220	2	2	1	5	2.2%	10	2.0	230	782	8	0	2	10	1.3%	18	1.8	800
ER	63	1	1	1	3	4.5%	7	2.3	70	69	0	0	0	0	0.0%	0	0.0	69
WL	320	5	8	21	34	9.6%	87	2.6	407	166	2	7	10	19	10.3%	47	2.5	213
WT	639	3	1	1	5	0.8%	10	2.0	649	262	6	1	3	10	3.7%	20	2.0	282
WR	100	1	1	0	2	2.0%	4	2.0	104	150	1	0	0	1	0.7%	2	2.0	152
									2,838									3,472
North Leg Volumes																		
Approach	853	19	2	1	22		36		889	507	5	0	0	5		8		515
Depart	274	6	1	0	7		12		286	867	5	2	1	8		15		882
Total	1,127	25	3	1	29	2.5%	48	1.7	1,175	1,374	10	2	1	13	0.9%	23	1.8	1,397
South Leg Volumes																		
Approach	294	17	41	25	83		184		478	1,297	8	5	14	27		65		1,362
Depart	1,022	18	11	23	52		119		1,141	516	3	7	10	20		49		565
Total	1,316	35	52	48	135	9.3%	303	2.2	1,619	1,813	11	12	24	47	2.5%	114	2.4	1,927
East Leg Volumes																		
Approach	1,059	9	10	22	41		101		1,160	578	9	8	13	30		69		647
Depart	454	16	43	26	85		189		643	1,539	15	3	14	32		71		1,610
Total	1,513	25	53	48	126	7.7%	290	2.3	1,803	2,117	24	11	27	62	2.8%	140	2.3	2,257
West Leg Volumes																		
Approach	291	5	3	2	10		20		311	927	10	0	2	12		21		948
Depart	747	10	1	1	12		21		768	387	9	1	4	14		28		415
Total	1,038	15	4	3	22	2.1%	41	1.9	1,079	1,314	19	1	6	26	1.9%	49	1.9	1,363
All Legs																		
Approach	2,497	50	56	50	156		341		2,838	3,309	32	13	29	74		163		3,472
Depart	2,497	50	56	50	156		341		2,838	3,309	32	13	29	74		163		3,472
Total	4,994	100	112	100	312	5.9%	682	2.2	5,676	6,618	64	26	58	148	2.2%	326	2.2	6,944

Existing Peak Hour Volumes - Classification Counts

3 **Palm Avenue at 3rd Street**

	AM Peak Hour Volumes									PM Peak Hour Volumes								
		Truck Volumes							Total		Truck Volumes							Total
	Passenger Vehicles	2-Axle 1.5	3-Axle 2.0	4-Axle 3.0	Total Trucks	Truck %-age	PCE	Average PCE	PCE Volume	Passenger Vehicles	2-Axle 1.5	3-Axle 2.0	4-Axle 3.0	Total Trucks	Truck %-age	PCE	Average PCE	PCE Volume
NL	133	0	8	14	22	14.2%	58	2.6	191	133	5	10	17	32	19.4%	79	2.5	212
NT	306	3	23	16	42	12.1%	99	2.4	405	848	3	2	8	13	1.5%	33	2.5	881
NR	5	1	0	0	1	16.7%	2	2.0	7	7	0	0	0	0	0.0%	0	0.0	7
SL	9	2	1	6	9	50.0%	23	2.6	32	2	1	3	0	4	66.7%	8	2.0	10
ST	840	2	14	14	30	3.4%	73	2.4	913	423	0	2	7	9	2.1%	25	2.8	448
SR	136	5	3	6	14	9.3%	32	2.3	168	81	1	1	3	5	5.8%	13	2.6	94
EL	74	1	12	6	19	20.4%	44	2.3	118	460	1	2	5	8	1.7%	21	2.6	481
ET	3	0	0	0	0	0.0%	0	0.0	3	32	2	0	0	2	5.9%	3	1.5	35
ER	147	2	12	6	20	12.0%	45	2.3	192	362	3	12	7	22	5.7%	50	2.3	412
WL	5	1	0	0	1	16.7%	2	2.0	7	8	1	0	0	1	11.1%	2	2.0	10
WT	0	1	1	0	2	100.0%	4	2.0	4	3	0	0	0	0	0.0%	0	0.0	3
WR	10	9	2	6	17	63.0%	36	2.1	46	18	2	1	0	3	14.3%	5	1.7	23
									2,086									2,616
North Leg Volumes																		
Approach	985	9	18	26	53		128		1,113	506	2	6	10	18		46		552
Depart	390	13	37	28	78		179		569	1,326	6	5	13	24		59		1,385
Total	1,375	22	55	54	131	8.7%	307	2.3	1,682	1,832	8	11	23	42	2.2%	105	2.5	1,937
South Leg Volumes																		
Approach	444	4	31	30	65		159		603	988	8	12	25	45		112		1,100
Depart	992	5	26	20	51		120		1,112	793	4	14	14	32		77		870
Total	1,436	9	57	50	116	7.5%	279	2.4	1,715	1,781	12	26	39	77	4.1%	189	2.5	1,970
East Leg Volumes																		
Approach	15	11	3	6	20		42		57	29	3	1	0	4		7		36
Depart	17	3	1	6	10		25		42	41	3	3	0	6		11		52
Total	32	14	4	12	30	48.4%	67	2.2	99	70	6	4	0	10	12.5%	18	1.8	88
West Leg Volumes																		
Approach	224	3	24	12	39		89		313	854	6	14	12	32		74		928
Depart	269	6	12	20	38		94		363	217	6	11	20	37		92		309
Total	493	9	36	32	77	13.5%	183	2.4	676	1,071	12	25	32	69	6.1%	166	2.4	1,237
All Legs																		
Approach	1,668	27	76	74	177		418		2,086	2,377	19	33	47	99		239		2,616
Depart	1,668	27	76	74	177		418		2,086	2,377	19	33	47	99		239		2,616
Total	3,336	54	152	148	354	9.6%	836	2.4	4,172	4,754	38	66	94	198	4.0%	478	2.4	5,232

Existing Peak Hour Volumes - Classification Counts

4 **Church Avenue at 5th Street**

	AM Peak Hour Volumes									PM Peak Hour Volumes								
		Truck Volumes							Total		Truck Volumes							Total
	Passenger Vehicles	2-Axle 1.5	3-Axle 2.0	4-Axle 3.0	Total Trucks	Truck %-age	PCE	Average PCE	PCE Volume	Passenger Vehicles	2-Axle 1.5	3-Axle 2.0	4-Axle 3.0	Total Trucks	Truck %-age	PCE	Average PCE	PCE Volume
NL	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
NT	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
NR	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
SL	170	3	0	0	3	1.7%	5	1.7	175	91	0	0	0	0	0.0%	0	0.0	91
ST	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
SR	94	1	0	0	1	1.1%	2	2.0	96	35	0	0	0	0	0.0%	0	0.0	35
EL	23	1	1	0	2	8.0%	4	2.0	27	67	0	0	0	0	0.0%	0	0.0	67
ET	405	17	52	26	95	19.0%	208	2.2	613	1,432	16	3	14	33	2.3%	72	2.2	1,504
ER	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
WL	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
WT	1,035	14	9	15	38	3.5%	84	2.2	1,119	511	13	7	12	32	5.9%	70	2.2	581
WR	78	1	0	0	1	1.3%	2	2.0	80	85	0	0	1	1	1.2%	3	3.0	88
									2,110									2,366
North Leg Volumes																		
Approach	264	4	0	0	4		7		271	126	0	0	0	0		0		126
Depart	101	2	1	0	3		6		107	152	0	0	1	1		3		155
Total	365	6	1	0	7	1.9%	13	1.9	378	278	0	0	1	1	0.4%	3	3.0	281
South Leg Volumes																		
Approach	0	0	0	0	0		0		0	0	0	0	0	0		0		0
Depart	0	0	0	0	0		0		0	0	0	0	0	0		0		0
Total	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
East Leg Volumes																		
Approach	1,113	15	9	15	39		86		1,199	596	13	7	13	33		73		669
Depart	575	20	52	26	98		213		788	1,523	16	3	14	33		72		1,595
Total	1,688	35	61	41	137	7.5%	299	2.2	1,987	2,119	29	10	27	66	3.0%	145	2.2	2,264
West Leg Volumes																		
Approach	428	18	53	26	97		212		640	1,499	16	3	14	33		72		1,571
Depart	1,129	15	9	15	39		86		1,215	546	13	7	12	32		70		616
Total	1,557	33	62	41	136	8.0%	298	2.2	1,855	2,045	29	10	26	65	3.1%	142	2.2	2,187
All Legs																		
Approach	1,805	37	62	41	140		305		2,110	2,221	29	10	27	66		145		2,366
Depart	1,805	37	62	41	140		305		2,110	2,221	29	10	27	66		145		2,366
Total	3,610	74	124	82	280	7.2%	610	2.2	4,220	4,442	58	20	54	132	2.9%	290	2.2	4,732

Existing Peak Hour Volumes - Classification Counts

5 **SR-210 EB Ramps at 5th Street**

	AM Peak Hour Volumes									PM Peak Hour Volumes								
		Truck Volumes							Total		Truck Volumes							Total
	Passenger Vehicles	2-Axle 1.5	3-Axle 2.0	4-Axle 3.0	Total Trucks	Truck %-age	PCE	Average PCE	PCE Volume	Passenger Vehicles	2-Axle 1.5	3-Axle 2.0	4-Axle 3.0	Total Trucks	Truck %-age	PCE	Average PCE	PCE Volume
NL	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
NT	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
NR	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
SL	132	2	1	0	3	2.2%	5	1.7	137	352	2	0	0	2	0.6%	3	1.5	355
ST	8	0	0	0	0	0.0%	0	0.0	8	7	0	0	0	0	0.0%	0	0.0	7
SR	117	6	0	3	9	7.1%	18	2.0	135	105	2	2	7	11	9.5%	28	2.5	133
EL	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
ET	274	7	18	14	39	12.5%	89	2.3	363	1,018	9	2	10	21	2.0%	48	2.3	1,066
ER	316	7	32	15	54	14.6%	120	2.2	436	537	2	1	6	9	1.6%	23	2.6	560
WL	814	6	1	9	16	1.9%	38	2.4	852	315	1	1	0	2	0.6%	4	2.0	319
WT	1,025	6	9	12	27	2.6%	63	2.3	1,088	507	10	3	6	19	3.6%	39	2.1	546
WR	0	0	0	0	0	0.0%	0	0.0	0	0	0	0	0	0	0.0%	0	0.0	0
									3,019									2,986
North Leg Volumes																		
Approach	257	8	1	3	12		23		280	464	4	2	7	13		31		495
Depart	0	0	0	0	0		0		0	0	0	0	0	0		0		0
Total	257	8	1	3	12	4.5%	23	1.9	280	464	4	2	7	13	2.7%	31	2.4	495
South Leg Volumes																		
Approach	0	0	0	0	0		0		0	0	0	0	0	0		0		0
Depart	1,138	13	33	24	70		158		1,296	859	3	2	6	11		27		886
Total	1,138	13	33	24	70	5.8%	158	2.3	1,296	859	3	2	6	11	1.3%	27	2.5	886
East Leg Volumes																		
Approach	1,839	12	10	21	43		101		1,940	822	11	4	6	21		43		865
Depart	406	9	19	14	42		94		500	1,370	11	2	10	23		51		1,421
Total	2,245	21	29	35	85	3.6%	195	2.3	2,440	2,192	22	6	16	44	2.0%	94	2.1	2,286
West Leg Volumes																		
Approach	590	14	50	29	93		209		799	1,555	11	3	16	30		71		1,626
Depart	1,142	12	9	15	36		81		1,223	612	12	5	13	30		67		679
Total	1,732	26	59	44	129	6.9%	290	2.2	2,022	2,167	23	8	29	60	2.7%	138	2.3	2,305
All Legs																		
Approach	2,686	34	61	53	148		333		3,019	2,841	26	9	29	64		145		2,986
Depart	2,686	34	61	53	148		333		3,019	2,841	26	9	29	64		145		2,986
Total	5,372	68	122	106	296	5.2%	666	2.3	6,038	5,682	52	18	58	128	2.2%	290	2.3	5,972

APPENDIX E

INTERSECTION ANALYSIS WORKSHEETS

APPENDIX E-1

INTERSECTION ANALYSIS WORKSHEETS – EXISTING CONDITIONS

Meines St and Palm Ave Warehouse Project

Vistro File: K:\...\Highland Lovett Warehouse_AM.vistro
Report File: K:\...\1. EX AM.pdf

Scenario 1 EX AM
5/2/2023

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Palm Avenue at Meines Street	Two-way stop	HCM 7th Edition	EB Left	0.019	18.8	C
2	Palm Avenue at 5th Street	Signalized	HCM 7th Edition	NB Left	0.642	39.4	D
3	Palm Avenue at 3rd Street	Signalized	HCM 7th Edition	SB Left	0.606	29.5	C
4	Church Avenue at 5th Street	Signalized	HCM 7th Edition	EB Left	0.502	13.4	B
5	SR-210 EB Ramps at 5th Street	Signalized	HCM 7th Edition	SB Right	0.705	25.7	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Palm Avenue at Meines Street

Control Type:	Two-way stop	Delay (sec / veh):	18.8
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.019

Intersection Setup

Name	Palm Avenue		Palm Avenue		Meines Street	
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	1	0	1	0	0
Exit Pocket Length [ft]	0.00	100.00	0.00	100.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Avenue		Palm Avenue		Meines Street	
Base Volume Input [veh/h]	11	363	806	11	4	10
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	363	806	11	4	10
Peak Hour Factor	0.8340	0.8340	0.8340	0.8340	0.8340	0.8340
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	109	242	3	1	3
Total Analysis Volume [veh/h]	13	435	966	13	5	12
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	1

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.02	0.00	0.01	0.00	0.02	0.02
d_M, Delay for Movement [s/veh]	10.15	0.00	0.00	0.00	18.80	12.25
Movement LOS	B	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.02	0.01	0.00	0.00	0.13	0.13
95th-Percentile Queue Length [ft/ln]	0.55	0.27	0.00	0.00	3.24	3.24
d_A, Approach Delay [s/veh]	0.29		0.00		14.17	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.26					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 2: Palm Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	39.4
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.642

Intersection Setup

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	37	171	270	143	664	82	11	230	70	407	649	104
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	37	171	270	143	664	82	11	230	70	407	649	104
Peak Hour Factor	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	10	47	74	39	182	22	3	63	19	111	178	28
Total Analysis Volume [veh/h]	41	187	296	157	727	90	12	252	77	446	711	114
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	12	26	0	17	31	0	10	30	0	47	67	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	17	0	0	17	0	0	21	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	C	L	C	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	44	44	13	53	53	2	14	14	33	46	46
g / C, Green / Cycle	0.03	0.36	0.36	0.11	0.44	0.44	0.01	0.12	0.12	0.28	0.38	0.38
(v / s)_i Volume / Saturation Flow Rate	0.02	0.05	0.19	0.09	0.23	0.23	0.01	0.09	0.10	0.26	0.23	0.24
s, saturation flow rate [veh/h]	1714	3427	1530	1714	1800	1731	1714	1800	1660	1714	1800	1714
c, Capacity [veh/h]	54	1249	557	182	790	760	25	212	196	477	687	655
d1, Uniform Delay [s]	57.65	25.64	30.06	52.76	24.57	24.57	58.71	51.50	51.68	42.27	29.95	29.99
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.26	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	19.04	0.25	3.59	11.27	2.51	2.61	14.31	6.56	8.22	17.70	0.89	0.95
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.76	0.15	0.53	0.86	0.53	0.53	0.49	0.79	0.82	0.94	0.61	0.62
d, Delay for Lane Group [s/veh]	76.68	25.90	33.66	64.03	27.08	27.17	73.02	58.05	59.90	59.96	30.84	30.94
Lane Group LOS	E	C	C	E	C	C	E	E	E	E	C	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.52	1.85	7.27	5.22	9.11	8.78	0.46	5.32	5.16	15.11	9.93	9.53
50th-Percentile Queue Length [ft/ln]	38.04	46.32	181.71	130.51	227.63	219.47	11.49	132.92	129.09	377.82	248.32	238.14
95th-Percentile Queue Length [veh/ln]	2.74	3.33	11.69	8.97	14.05	13.64	0.83	9.10	8.89	21.49	15.10	14.59
95th-Percentile Queue Length [ft/ln]	68.47	83.37	292.24	224.19	351.35	340.95	20.69	227.45	222.25	537.21	377.54	364.68

Movement, Approach, & Intersection Results

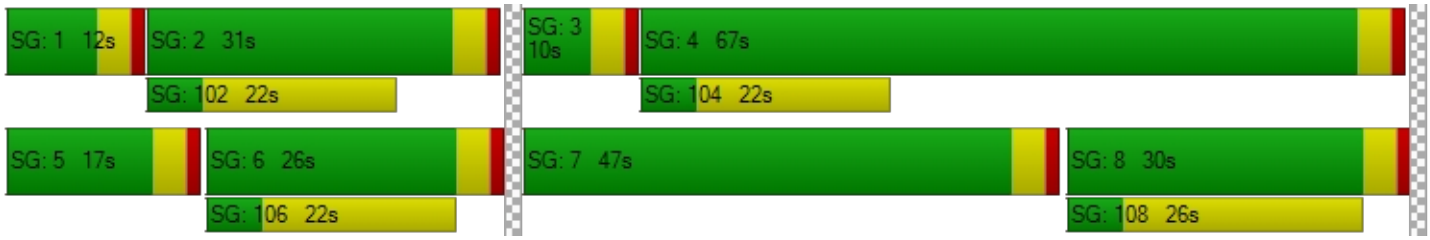
d_M, Delay for Movement [s/veh]	76.68	25.90	33.66	64.03	27.12	27.17	73.02	58.67	59.90	59.96	30.88	30.94
Movement LOS	E	C	C	E	C	C	E	E	E	E	C	C
d_A, Approach Delay [s/veh]	34.25			33.07			59.45			41.09		
Approach LOS	C			C			E			D		
d_I, Intersection Delay [s/veh]	39.44											
Intersection LOS	D											
Intersection V/C	0.642											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.856	2.566	2.546	2.789
Crosswalk LOS	C	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	367	450	433	1050
d_b, Bicycle Delay [s]	40.02	36.04	36.82	13.54
l_b,int, Bicycle LOS Score for Intersection	1.992	2.363	1.841	2.608
Bicycle LOS	A	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 3: Palm Avenue at 3rd Street

Control Type:	Signalized	Delay (sec / veh):	29.5
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.606

Intersection Setup

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Base Volume Input [veh/h]	191	405	8	37	913	168	118	3	192	8	5	53
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	191	405	8	37	913	168	118	3	192	8	5	53
Peak Hour Factor	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	53	111	2	10	251	46	32	1	53	2	1	15
Total Analysis Volume [veh/h]	210	446	9	41	1004	185	130	3	211	9	6	58
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	30	65	0	12	47	0	17	33	0	10	26	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	17	0	0	17	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	R	L	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	17	80	80	4	67	67	7	19	19	1	13
g / C, Green / Cycle	0.14	0.67	0.67	0.03	0.56	0.56	0.06	0.16	0.16	0.01	0.11
(v / s)_i Volume / Saturation Flow Rate	0.12	0.13	0.13	0.02	0.34	0.34	0.04	0.00	0.14	0.01	0.04
s, saturation flow rate [veh/h]	1714	1800	1787	1714	1800	1704	3329	1800	1530	1714	1552
c, Capacity [veh/h]	239	1203	1195	54	1008	955	186	280	238	19	172
d1, Uniform Delay [s]	50.62	7.55	7.55	57.68	17.55	17.58	55.66	42.83	49.60	58.98	49.45
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.90	0.35	0.35	19.73	2.69	2.86	4.70	0.01	10.46	17.09	1.33
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.88	0.19	0.19	0.76	0.60	0.61	0.70	0.01	0.89	0.47	0.37
d, Delay for Lane Group [s/veh]	60.52	7.90	7.91	77.41	20.24	20.45	60.36	42.85	60.06	76.07	50.78
Lane Group LOS	E	A	A	E	C	C	E	D	E	E	D
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	6.83	2.25	2.24	1.53	11.60	11.08	2.06	0.08	6.87	0.36	1.85
50th-Percentile Queue Length [ft/ln]	170.81	56.20	55.88	38.24	289.95	277.10	51.38	1.93	171.87	9.06	46.23
95th-Percentile Queue Length [veh/ln]	11.12	4.05	4.02	2.75	17.18	16.54	3.70	0.14	11.18	0.65	3.33
95th-Percentile Queue Length [ft/ln]	277.98	101.16	100.58	68.83	429.58	413.60	92.49	3.47	279.38	16.31	83.21

Movement, Approach, & Intersection Results

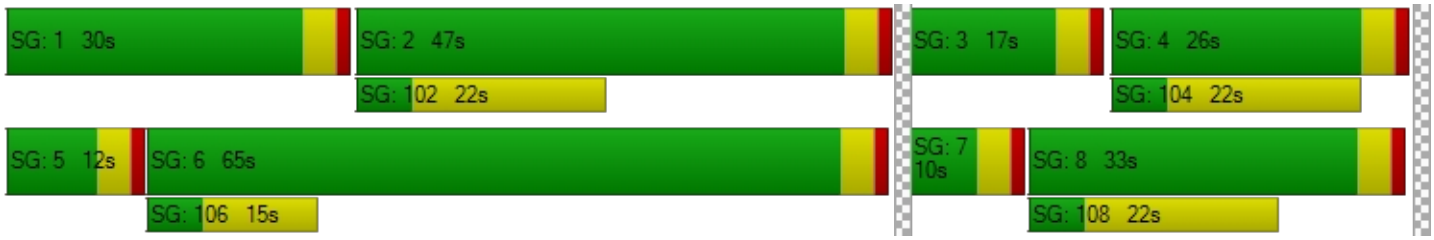
d_M, Delay for Movement [s/veh]	60.52	7.91	7.91	77.41	20.32	20.45	60.36	42.85	60.06	76.07	50.78	50.78
Movement LOS	E	A	A	E	C	C	E	D	E	E	D	D
d_A, Approach Delay [s/veh]	24.52			22.24			60.02			53.90		
Approach LOS	C			C			E			D		
d_I, Intersection Delay [s/veh]	29.52											
Intersection LOS	C											
Intersection V/C	0.606											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.683	2.679	2.460	1.996
Crosswalk LOS	B	B	B	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1017	717	483	367
d_b, Bicycle Delay [s]	14.50	24.70	34.50	40.02
l_b,int, Bicycle LOS Score for Intersection	2.108	2.574	2.127	1.680
Bicycle LOS	B	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 4: Church Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	13.4
Analysis Method:	HCM 7th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.502

Intersection Setup

Name	Church Avenue		5th Street		5th Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	1	1	0	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		No	

Volumes

Name	Church Avenue		5th Street		5th Street	
Base Volume Input [veh/h]	175	96	27	613	1119	80
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00					
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	175	96	27	613	1119	80
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	48	26	7	168	306	22
Total Analysis Volume [veh/h]	191	105	30	671	1224	88
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Permissive
Signal Group	7	0	5	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	5	0	5	10	10	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	41	0	10	79	69	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	5	0	0	5	5	0
Pedestrian Clearance [s]	17	0	0	10	10	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	C
C, Cycle Length [s]	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	16	16	3	96	89	89
g / C, Green / Cycle	0.13	0.13	0.03	0.80	0.74	0.74
(v / s)_i Volume / Saturation Flow Rate	0.11	0.07	0.02	0.20	0.36	0.37
s, saturation flow rate [veh/h]	1714	1530	1714	3427	1800	1758
c, Capacity [veh/h]	226	202	45	2747	1335	1304
d1, Uniform Delay [s]	50.89	48.55	57.87	2.94	6.30	6.39
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	8.38	2.07	15.10	0.21	1.30	1.39
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.85	0.52	0.66	0.24	0.49	0.50
d, Delay for Lane Group [s/veh]	59.27	50.63	72.97	3.15	7.60	7.78
Lane Group LOS	E	D	E	A	A	A
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	6.13	3.05	1.09	1.63	6.38	6.48
50th-Percentile Queue Length [ft/ln]	153.22	76.37	27.34	40.84	159.47	162.06
95th-Percentile Queue Length [veh/ln]	10.19	5.50	1.97	2.94	10.52	10.66
95th-Percentile Queue Length [ft/ln]	254.72	137.46	49.21	73.51	263.02	266.45

Movement, Approach, & Intersection Results

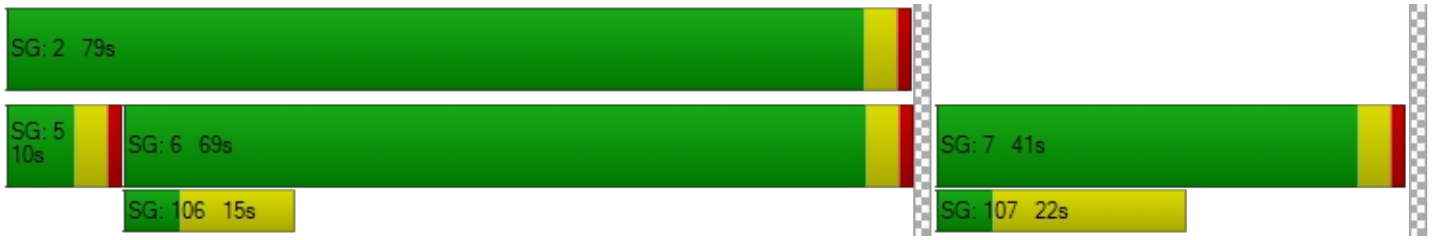
d_M, Delay for Movement [s/veh]	59.27	50.63	72.97	3.15	7.68	7.78
Movement LOS	E	D	E	A	A	A
d_A, Approach Delay [s/veh]	56.21		6.14		7.69	
Approach LOS	E		A		A	
d_I, Intersection Delay [s/veh]	13.44					
Intersection LOS	B					
Intersection V/C	0.502					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.090	2.711	0.000
Crosswalk LOS	B	B	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	617	1250	1083
d_b, Bicycle Delay [s]	28.70	8.44	12.60
l_b,int, Bicycle LOS Score for Intersection	1.560	2.138	2.642
Bicycle LOS	A	B	B

Sequence

Ring 1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: SR-210 EB Ramps at 5th Street

Control Type:	Signalized	Delay (sec / veh):	25.7
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.705

Intersection Setup

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	0	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	1	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	49.21	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present				No			No			No		
Crosswalk	Yes			Yes			No			No		

Volumes

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	137	8	135	0	363	436	852	1088	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	137	8	135	0	363	436	852	1088	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.8920	0.8920	0.8920	1.0000	0.8920	0.8920	0.8920	0.8920	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	38	2	38	0	102	122	239	305	0
Total Analysis Volume [veh/h]	0	0	0	154	9	151	0	407	489	955	1220	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	0	0	0	0	2	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	10	0	0	10	0	5	10	0
Maximum Green [s]	0	0	0	0	30	0	0	30	0	30	30	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	18	0	0	47	0	55	102	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	7	0	0	7	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	R	C	R	L	C
C, Cycle Length [s]		120	120	120	120	120	120
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		14	14	56	56	38	98
g / C, Green / Cycle		0.11	0.11	0.47	0.47	0.32	0.82
(v / s)_i Volume / Saturation Flow Rate		0.09	0.10	0.12	0.32	0.29	0.36
s, saturation flow rate [veh/h]		1719	1530	3427	1530	3329	3427
c, Capacity [veh/h]		196	175	1600	714	1062	2808
d1, Uniform Delay [s]		52.02	52.25	19.35	25.06	39.02	3.04
k, delay calibration		0.11	0.11	0.50	0.50	0.11	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		8.76	11.94	0.38	5.27	3.06	0.49
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.83	0.87	0.25	0.68	0.90	0.43
d, Delay for Lane Group [s/veh]		60.78	64.18	19.73	30.33	42.08	3.54
Lane Group LOS		E	E	B	C	D	A
Critical Lane Group		No	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		5.28	5.04	3.52	11.73	13.73	3.16
50th-Percentile Queue Length [ft/ln]		131.89	126.08	87.93	293.19	343.35	79.12
95th-Percentile Queue Length [veh/ln]		9.04	8.73	6.33	17.34	19.81	5.70
95th-Percentile Queue Length [ft/ln]		226.07	218.16	158.28	433.60	495.29	142.42

Movement, Approach, & Intersection Results

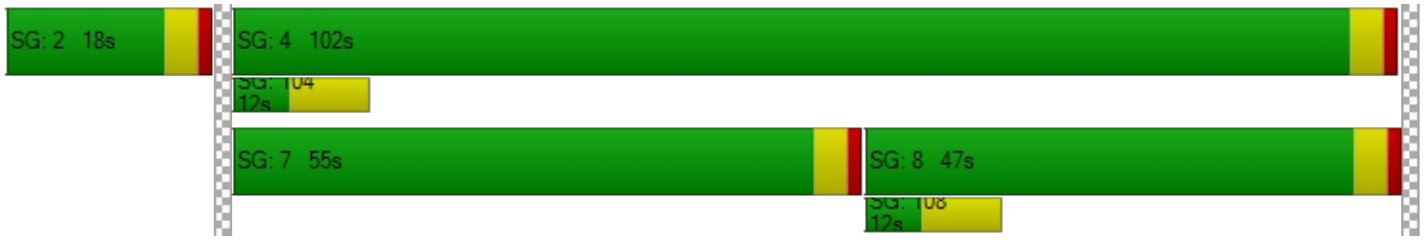
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	60.78	60.78	64.18	0.00	19.73	30.33	42.08	3.54	0.00
Movement LOS				E	E	E		B	C	D	A	
d_A, Approach Delay [s/veh]	0.00			62.42			25.51			20.46		
Approach LOS	A			E			C			C		
d_I, Intersection Delay [s/veh]	25.69											
Intersection LOS	C											
Intersection V/C	0.705											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.438	1.883	0.000	0.000
Crosswalk LOS	B	A	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	233	717	1633
d_b, Bicycle Delay [s]	60.00	46.82	24.70	2.02
l_b,int, Bicycle LOS Score for Intersection	4.132	2.078	2.299	3.354
Bicycle LOS	D	B	B	C

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Meines St and Palm Ave Warehouse Project

Vistro File: K:\...\Highland Lovett Warehouse_PM.vistro — Scenario 1 EX PM

Report File: K:\...\1. EX PM.pdf — 5/2/2023

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Palm Avenue at Meines Street	Two-way stop	HCM 7th Edition	EB Left	0.058	17.4	C
2	Palm Avenue at 5th Street	Signalized	HCM 7th Edition	NB Right	0.956	81.3	F
3	Palm Avenue at 3rd Street	Signalized	HCM 7th Edition	SB Left	0.593	37.3	D
4	Church Avenue at 5th Street	Signalized	HCM 7th Edition	EB Left	0.539	8.4	A
5	SR-210 EB Ramps at 5th Street	Signalized	HCM 7th Edition	SB Left	0.739	30.0	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Palm Avenue at Meines Street

Control Type:	Two-way stop	Delay (sec / veh):	17.4
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.058

Intersection Setup

Name	Palm Avenue		Palm Avenue		Meines Street	
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	1	0	1	0	0
Exit Pocket Length [ft]	0.00	100.00	0.00	100.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Avenue		Palm Avenue		Meines Street	
Base Volume Input [veh/h]	11	909	639	14	17	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	909	639	14	17	22
Peak Hour Factor	0.9480	0.9480	0.9480	0.9480	0.9480	0.9480
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	240	169	4	4	6
Total Analysis Volume [veh/h]	12	959	674	15	18	23
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	1

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.01	0.00	0.06	0.04
d_M, Delay for Movement [s/veh]	9.01	0.00	0.00	0.00	17.37	11.36
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.02	0.01	0.00	0.00	0.31	0.31
95th-Percentile Queue Length [ft/ln]	0.50	0.25	0.00	0.00	7.64	7.64
d_A, Approach Delay [s/veh]	0.11		0.00		14.00	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.40					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 2: Palm Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	81.3
Analysis Method:	HCM 7th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.956

Intersection Setup

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	100	651	611	199	283	33	79	800	69	213	282	152
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	100	651	611	199	283	33	79	800	69	213	282	152
Peak Hour Factor	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	27	176	165	54	76	9	21	216	19	58	76	41
Total Analysis Volume [veh/h]	108	704	661	215	306	36	85	865	75	230	305	164
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	31	37	0	31	37	0	26	33	0	19	26	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	21	0	0	17	0	0	24	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	C	L	C	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	9	43	43	17	51	51	8	29	29	15	36	36
g / C, Green / Cycle	0.08	0.36	0.36	0.14	0.42	0.42	0.06	0.24	0.24	0.13	0.30	0.30
(v / s)_i Volume / Saturation Flow Rate	0.06	0.21	0.43	0.13	0.10	0.10	0.05	0.26	0.26	0.13	0.14	0.14
s, saturation flow rate [veh/h]	1714	3427	1530	1714	1800	1735	1714	1800	1750	1714	1800	1592
c, Capacity [veh/h]	136	1224	546	245	757	729	110	435	423	214	545	482
d1, Uniform Delay [s]	54.26	31.21	38.57	50.40	22.30	22.32	55.31	45.50	45.50	52.50	33.84	33.89
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.49	0.49	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.85	1.97	110.63	9.69	0.71	0.74	10.99	71.32	71.93	50.69	0.59	0.68
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.79	0.58	1.21	0.88	0.23	0.23	0.77	1.10	1.10	1.07	0.45	0.46
d, Delay for Lane Group [s/veh]	64.11	33.18	149.20	60.08	23.01	23.06	66.30	116.82	117.43	103.19	34.43	34.57
Lane Group LOS	E	C	F	E	C	C	E	F	F	F	C	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.58	8.55	32.54	6.98	3.30	3.21	2.87	21.46	20.94	9.45	5.93	5.32
50th-Percentile Queue Length [ft/ln]	89.51	213.66	813.56	174.40	82.51	80.24	71.74	536.59	523.47	236.34	148.36	132.88
95th-Percentile Queue Length [veh/ln]	6.44	13.34	47.26	11.31	5.94	5.78	5.17	30.64	29.99	14.93	9.93	9.10
95th-Percentile Queue Length [ft/ln]	161.12	333.52	1181.59	282.69	148.52	144.43	129.13	766.03	749.65	373.37	248.24	227.40

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	64.11	33.18	149.20	60.08	23.03	23.06	66.30	117.09	117.43	103.19	34.46	34.57
Movement LOS	E	C	F	E	C	C	E	F	F	F	C	C
d_A, Approach Delay [s/veh]	87.51			37.33			112.91			57.10		
Approach LOS	F			D			F			E		
d_I, Intersection Delay [s/veh]	81.34											
Intersection LOS	F											
Intersection V/C	0.956											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.899	2.610	2.603	2.865
Crosswalk LOS	C	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	550	550	483	367
d_b, Bicycle Delay [s]	31.54	31.54	34.50	40.02
l_b,int, Bicycle LOS Score for Intersection	2.775	2.019	2.405	2.136
Bicycle LOS	C	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 3: Palm Avenue at 3rd Street

Control Type:	Signalized	Delay (sec / veh):	37.3
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.593

Intersection Setup

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Base Volume Input [veh/h]	212	881	8	12	448	94	481	40	412	12	3	26
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	212	881	8	12	448	94	481	40	412	12	3	26
Peak Hour Factor	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	57	235	2	3	120	25	128	11	110	3	1	7
Total Analysis Volume [veh/h]	226	941	9	13	479	100	514	43	440	13	3	28
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	21	37	0	10	26	0	25	63	0	10	48	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	17	0	0	17	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	R	L	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	17	63	63	2	48	48	20	37	37	2	18
g / C, Green / Cycle	0.14	0.53	0.53	0.01	0.40	0.40	0.17	0.31	0.31	0.01	0.15
(v / s)_i Volume / Saturation Flow Rate	0.13	0.26	0.26	0.01	0.16	0.17	0.15	0.02	0.29	0.01	0.02
s, saturation flow rate [veh/h]	1714	1800	1794	1714	1800	1694	3329	1800	1530	1714	1553
c, Capacity [veh/h]	243	951	948	26	723	681	565	554	471	26	238
d1, Uniform Delay [s]	50.92	18.14	18.14	58.63	25.71	25.75	48.92	29.44	40.34	58.63	43.88
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.13	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	14.62	1.88	1.89	13.98	1.72	1.86	6.04	0.06	10.50	13.98	0.24
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.93	0.50	0.50	0.50	0.41	0.41	0.91	0.08	0.93	0.50	0.13
d, Delay for Lane Group [s/veh]	65.54	20.02	20.03	72.61	27.43	27.61	54.96	29.50	50.84	72.61	44.12
Lane Group LOS	E	C	C	E	C	C	D	C	D	E	D
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	7.68	8.78	8.76	0.49	6.41	6.12	8.01	0.90	13.84	0.49	0.82
50th-Percentile Queue Length [ft/ln]	192.09	219.62	218.97	12.34	160.17	152.93	200.23	22.46	346.07	12.34	20.45
95th-Percentile Queue Length [veh/ln]	12.23	13.65	13.61	0.89	10.56	10.17	12.65	1.62	19.94	0.89	1.47
95th-Percentile Queue Length [ft/ln]	305.74	341.14	340.31	22.21	263.94	254.34	316.26	40.43	498.61	22.21	36.81

Movement, Approach, & Intersection Results

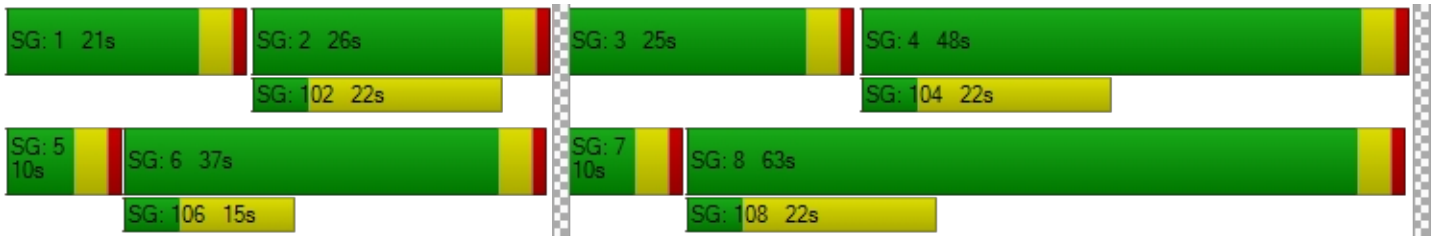
d_M, Delay for Movement [s/veh]	65.54	20.03	20.03	72.61	27.50	27.61	54.96	29.50	50.84	72.61	44.12	44.12
Movement LOS	E	C	C	E	C	C	D	C	D	E	D	D
d_A, Approach Delay [s/veh]	28.77			28.51			52.04			52.54		
Approach LOS	C			C			D			D		
d_I, Intersection Delay [s/veh]	37.35											
Intersection LOS	D											
Intersection V/C	0.593											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.726	2.720	2.574	1.991
Crosswalk LOS	B	B	B	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	550	367	983	733
d_b, Bicycle Delay [s]	31.54	40.02	15.50	24.07
l_b,int, Bicycle LOS Score for Intersection	2.530	2.048	3.205	1.632
Bicycle LOS	B	B	C	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 4: Church Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	8.4
Analysis Method:	HCM 7th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.539

Intersection Setup

Name	Church Avenue		5th Street		5th Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	1	1	0	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		No	

Volumes

Name	Church Avenue		5th Street		5th Street	
Base Volume Input [veh/h]	91	35	67	1504	581	88
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00					
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	91	35	67	1504	581	88
Peak Hour Factor	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	10	18	412	159	24
Total Analysis Volume [veh/h]	100	38	73	1647	636	96
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Permissive
Signal Group	7	0	5	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	5	0	5	10	10	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	35	0	47	85	38	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	5	0	0	5	5	0
Pedestrian Clearance [s]	17	0	0	10	10	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	C
C, Cycle Length [s]	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	9	9	7	103	92	92
g / C, Green / Cycle	0.08	0.08	0.06	0.86	0.77	0.77
(v / s)_i Volume / Saturation Flow Rate	0.06	0.02	0.04	0.48	0.20	0.21
s, saturation flow rate [veh/h]	1714	1530	1714	3427	1800	1720
c, Capacity [veh/h]	130	116	95	2938	1383	1322
d1, Uniform Delay [s]	54.41	52.54	55.90	2.35	4.03	4.08
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.11	1.62	12.07	0.78	0.47	0.52
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.77	0.33	0.77	0.56	0.26	0.28
d, Delay for Lane Group [s/veh]	63.52	54.16	67.98	3.13	4.50	4.60
Lane Group LOS	E	D	E	A	A	A
Critical Lane Group	Yes	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.29	1.14	2.50	3.27	2.39	2.43
50th-Percentile Queue Length [ft/ln]	82.37	28.51	62.52	81.71	59.71	60.66
95th-Percentile Queue Length [veh/ln]	5.93	2.05	4.50	5.88	4.30	4.37
95th-Percentile Queue Length [ft/ln]	148.27	51.32	112.54	147.08	107.48	109.19

Movement, Approach, & Intersection Results

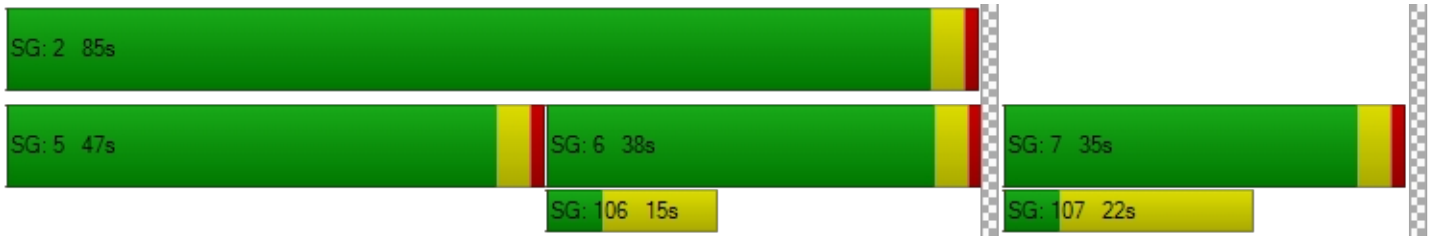
d_M, Delay for Movement [s/veh]	63.52	54.16	67.98	3.13	4.54	4.60
Movement LOS	E	D	E	A	A	A
d_A, Approach Delay [s/veh]	60.94		5.88		4.55	
Approach LOS	E		A		A	
d_I, Intersection Delay [s/veh]	8.44					
Intersection LOS	A					
Intersection V/C	0.539					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	0.00
I_p,int, Pedestrian LOS Score for Intersection	2.055	2.782	0.000
Crosswalk LOS	B	C	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	517	1350	567
d_b, Bicycle Delay [s]	33.00	6.34	30.82
I_b,int, Bicycle LOS Score for Intersection	1.560	2.979	2.164
Bicycle LOS	A	C	B

Sequence

Ring 1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: SR-210 EB Ramps at 5th Street

Control Type:	Signalized	Delay (sec / veh):	30.0
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.739

Intersection Setup

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	0	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	1	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	49.21	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present				No			No			No		
Crosswalk	Yes			Yes			No			No		

Volumes

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	355	7	133	0	1066	560	319	546	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	355	7	133	0	1066	560	319	546	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.9110	0.9110	0.9110	1.0000	0.9110	0.9110	0.9110	0.9110	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	97	2	36	0	293	154	88	150	0
Total Analysis Volume [veh/h]	0	0	0	390	8	146	0	1170	615	350	599	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	0	0	0	0	2	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	10	0	0	10	0	5	10	0
Maximum Green [s]	0	0	0	0	30	0	0	30	0	30	30	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	44	0	0	60	0	16	76	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	7	0	0	7	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	R	C	R	L	C
C, Cycle Length [s]		120	120	120	120	120	120
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		30	30	62	62	15	82
g / C, Green / Cycle		0.25	0.25	0.52	0.52	0.13	0.68
(v / s)_i Volume / Saturation Flow Rate		0.23	0.10	0.34	0.40	0.11	0.17
s, saturation flow rate [veh/h]		1716	1530	3427	1530	3329	3427
c, Capacity [veh/h]		435	388	1783	796	421	2331
d1, Uniform Delay [s]		43.55	36.98	20.97	23.09	51.17	7.44
k, delay calibration		0.24	0.11	0.50	0.50	0.11	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		15.14	0.61	1.90	7.18	4.32	0.27
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.92	0.38	0.66	0.77	0.83	0.26
d, Delay for Lane Group [s/veh]		58.69	37.59	22.87	30.27	55.48	7.71
Lane Group LOS		E	D	C	C	E	A
Critical Lane Group		Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		13.24	3.62	12.11	15.06	5.38	2.90
50th-Percentile Queue Length [ft/ln]		331.12	90.53	302.77	376.58	134.45	72.52
95th-Percentile Queue Length [veh/ln]		19.21	6.52	17.82	21.43	9.18	5.22
95th-Percentile Queue Length [ft/ln]		480.34	162.96	445.45	535.70	229.53	130.53

Movement, Approach, & Intersection Results

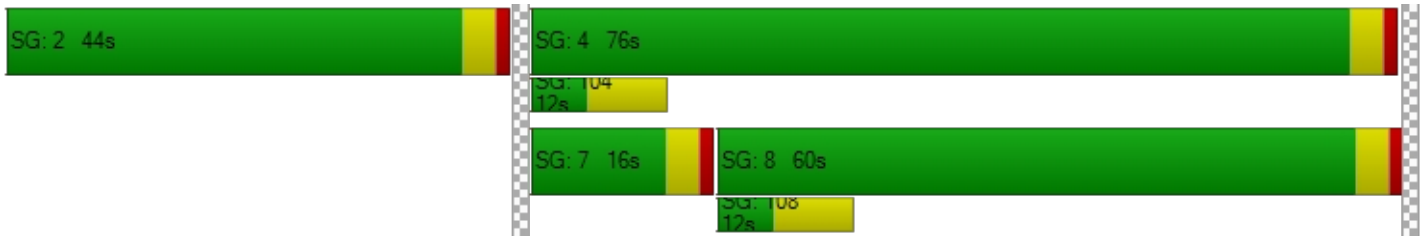
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	58.69	58.69	37.59	0.00	22.87	30.27	55.48	7.71	0.00
Movement LOS				E	E	D		C	C	E	A	
d_A, Approach Delay [s/veh]	0.00			53.03			25.42			25.33		
Approach LOS	A			D			C			C		
d_I, Intersection Delay [s/veh]	29.98											
Intersection LOS	C											
Intersection V/C	0.739											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.204	1.995	0.000	0.000
Crosswalk LOS	B	A	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	667	933	1200
d_b, Bicycle Delay [s]	60.00	26.67	17.07	9.60
l_b,int, Bicycle LOS Score for Intersection	4.132	2.457	3.032	2.343
Bicycle LOS	D	B	C	B

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



APPENDIX E-2

INTERSECTION ANALYSIS WORKSHEETS – OPENING YEAR 2024 CUMULATIVE

Meines St and Palm Ave Warehouse Project

Vistro File: K:\...\Highland Lovett Warehouse_AM.vistro
Report File: K:\...\2. OY CUM AM.pdf

Scenario 2 OY CUM AM
5/2/2023

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Palm Avenue at Meines Street	Two-way stop	HCM 7th Edition	EB Left	0.021	20.7	C
2	Palm Avenue at 5th Street	Signalized	HCM 7th Edition	SB Left	0.717	45.7	D
3	Palm Avenue at 3rd Street	Signalized	HCM 7th Edition	WB Left	0.652	30.0	C
4	Church Avenue at 5th Street	Signalized	HCM 7th Edition	EB Left	0.645	19.9	B
5	SR-210 EB Ramps at 5th Street	Signalized	HCM 7th Edition	SB Right	0.832	40.4	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Palm Avenue at Meines Street

Control Type:	Two-way stop	Delay (sec / veh):	20.7
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.021

Intersection Setup

Name	Palm Avenue		Palm Avenue		Meines Street	
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	1	0	1	0	0
Exit Pocket Length [ft]	0.00	100.00	0.00	100.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Avenue		Palm Avenue		Meines Street	
Base Volume Input [veh/h]	11	363	806	11	4	10
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	66	66	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	436	888	11	4	10
Peak Hour Factor	0.8340	0.8340	0.8340	0.8340	0.8340	0.8340
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	131	266	3	1	3
Total Analysis Volume [veh/h]	13	523	1065	13	5	12
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	1

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.02	0.01	0.01	0.00	0.02	0.02
d_M, Delay for Movement [s/veh]	10.62	0.00	0.00	0.00	20.75	12.86
Movement LOS	B	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.02	0.01	0.00	0.00	0.14	0.14
95th-Percentile Queue Length [ft/ln]	0.55	0.27	0.00	0.00	3.59	3.59
d_A, Approach Delay [s/veh]	0.26		0.00		15.18	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	0.24					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 2: Palm Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	45.7
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.717

Intersection Setup

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	37	171	270	143	664	82	11	230	70	407	649	104
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	3	18	50	36	18	12	12	73	3	92	122	36
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	-244	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	41	192	81	182	695	96	23	308	74	507	784	142
Peak Hour Factor	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	53	22	50	190	26	6	84	20	139	215	39
Total Analysis Volume [veh/h]	45	210	89	199	761	105	25	337	81	555	859	156
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	12	26	0	17	31	0	10	30	0	47	67	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	17	0	0	17	0	0	21	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	C	L	C	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	33	33	13	42	42	3	17	17	41	55	55
g / C, Green / Cycle	0.03	0.28	0.28	0.11	0.35	0.35	0.02	0.14	0.14	0.34	0.46	0.46
(v / s)_i Volume / Saturation Flow Rate	0.03	0.06	0.06	0.12	0.25	0.25	0.01	0.12	0.12	0.32	0.29	0.29
s, saturation flow rate [veh/h]	1714	3427	1530	1714	1800	1725	1714	1800	1682	1714	1800	1706
c, Capacity [veh/h]	58	953	425	186	635	608	41	256	239	580	821	778
d1, Uniform Delay [s]	57.53	33.32	33.21	53.50	33.34	33.34	58.00	50.10	50.23	38.88	24.86	25.06
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.39	0.11	0.12
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	19.72	0.53	1.12	51.72	6.23	6.50	13.64	7.06	8.33	24.28	0.83	0.99
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.78	0.22	0.21	1.07	0.70	0.70	0.61	0.84	0.85	0.96	0.63	0.64
d, Delay for Lane Group [s/veh]	77.25	33.85	34.32	105.22	39.56	39.84	71.65	57.15	58.57	63.16	25.69	26.05
Lane Group LOS	E	C	C	F	D	D	E	E	E	E	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.67	2.44	2.13	8.26	12.05	11.59	0.91	6.75	6.52	19.65	11.22	10.96
50th-Percentile Queue Length [ft/ln]	41.81	60.97	53.32	206.44	301.17	289.82	22.70	168.71	163.08	491.26	280.39	274.00
95th-Percentile Queue Length [veh/ln]	3.01	4.39	3.84	13.33	17.74	17.18	1.63	11.01	10.71	26.92	16.71	16.39
95th-Percentile Queue Length [ft/ln]	75.25	109.75	95.97	333.19	443.48	429.41	40.87	275.22	267.80	673.01	417.69	409.73

Movement, Approach, & Intersection Results

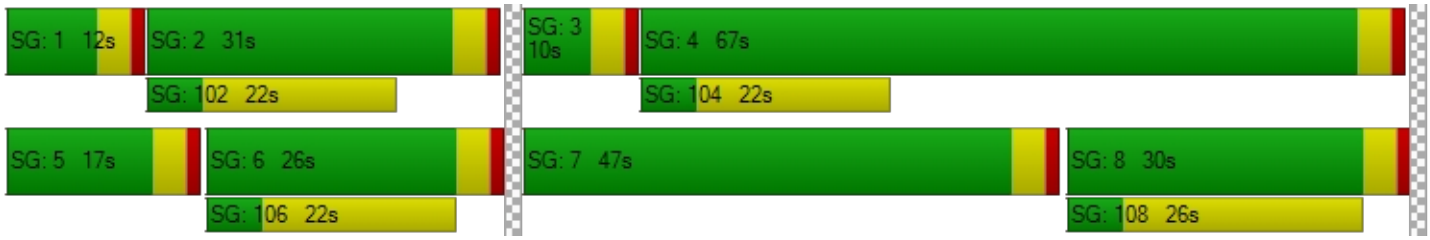
d_M, Delay for Movement [s/veh]	77.25	33.85	34.32	105.22	39.68	39.84	71.65	57.67	58.57	63.16	25.83	26.05
Movement LOS	E	C	C	F	D	D	E	E	E	E	C	C
d_A, Approach Delay [s/veh]	39.65			51.94			58.62			39.05		
Approach LOS	D			D			E			D		
d_I, Intersection Delay [s/veh]	45.66											
Intersection LOS	D											
Intersection V/C	0.717											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.852	2.599	2.598	2.825
Crosswalk LOS	C	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	367	450	433	1050
d_b, Bicycle Delay [s]	40.02	36.04	36.82	13.54
l_b,int, Bicycle LOS Score for Intersection	1.843	2.438	1.925	2.855
Bicycle LOS	A	B	A	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 3: Palm Avenue at 3rd Street

Control Type:	Signalized	Delay (sec / veh):	30.0
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.652

Intersection Setup

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Base Volume Input [veh/h]	191	405	7	32	913	168	118	3	192	7	4	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	12	0	0	12	82	40	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	-122	122	0	0	0	-122	122	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	195	303	129	33	943	253	38	125	196	7	4	47
Peak Hour Factor	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	54	83	35	9	259	70	10	34	54	2	1	13
Total Analysis Volume [veh/h]	215	333	142	36	1037	278	42	138	216	8	4	52
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	30	65	0	12	47	0	17	33	0	10	26	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	17	0	0	17	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	R	L	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	17	80	80	4	66	66	4	19	19	1	17
g / C, Green / Cycle	0.14	0.67	0.67	0.03	0.55	0.55	0.03	0.16	0.16	0.01	0.14
(v / s)_i Volume / Saturation Flow Rate	0.13	0.14	0.14	0.02	0.38	0.38	0.01	0.08	0.14	0.00	0.04
s, saturation flow rate [veh/h]	1714	1800	1620	1714	1800	1671	3329	1800	1530	1714	1547
c, Capacity [veh/h]	244	1199	1079	50	995	924	107	290	247	17	215
d1, Uniform Delay [s]	50.45	7.77	7.78	57.74	19.25	19.38	56.94	45.71	49.15	59.07	46.11
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.91	0.39	0.44	17.01	3.77	4.19	2.36	1.21	9.48	18.11	0.63
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.88	0.21	0.21	0.71	0.68	0.69	0.39	0.48	0.88	0.46	0.26
d, Delay for Lane Group [s/veh]	60.36	8.16	8.22	74.75	23.02	23.57	59.30	46.92	58.62	77.19	46.75
Lane Group LOS	E	A	A	E	C	C	E	D	E	E	D
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	6.99	2.51	2.30	1.32	14.11	13.42	0.66	3.85	6.96	0.33	1.54
50th-Percentile Queue Length [ft/ln]	174.78	62.78	57.41	33.05	352.82	335.62	16.50	96.13	173.91	8.22	38.43
95th-Percentile Queue Length [veh/ln]	11.33	4.52	4.13	2.38	20.27	19.43	1.19	6.92	11.28	0.59	2.77
95th-Percentile Queue Length [ft/ln]	283.18	113.01	103.33	59.49	506.85	485.84	29.70	173.04	282.05	14.80	69.17

Movement, Approach, & Intersection Results

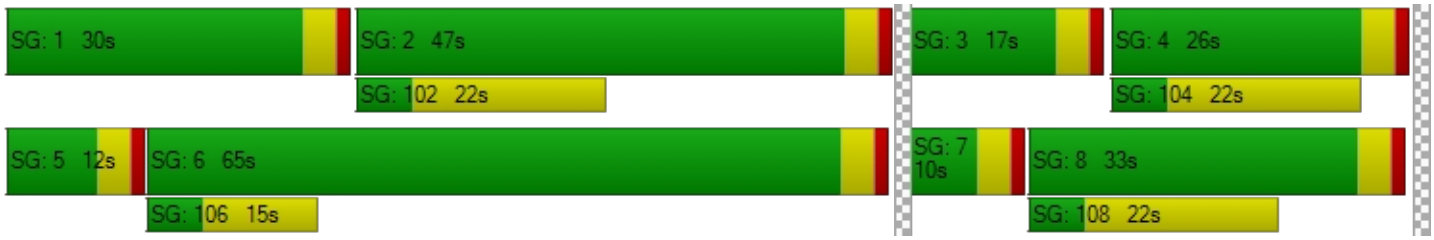
d_M, Delay for Movement [s/veh]	60.36	8.18	8.22	74.75	23.21	23.57	59.30	46.92	58.62	77.19	46.75	46.75
Movement LOS	E	A	A	E	C	C	E	D	E	E	D	D
d_A, Approach Delay [s/veh]	24.45			24.66			54.62			50.55		
Approach LOS	C			C			D			D		
d_I, Intersection Delay [s/veh]	30.00											
Intersection LOS	C											
Intersection V/C	0.652											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.696	2.662	2.489	2.079
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1017	717	483	367
d_b, Bicycle Delay [s]	14.50	24.70	34.50	40.02
l_b,int, Bicycle LOS Score for Intersection	2.129	2.674	2.213	1.665
Bicycle LOS	B	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 4: Church Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	19.9
Analysis Method:	HCM 7th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.645

Intersection Setup

Name	Church Avenue			Church Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	1	0	0	0	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Church Avenue			Church Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	175	0	96	27	613	0	0	1119	80
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0000	1.0200	1.0200	1.0200	1.0000	1.0000	1.0200	1.0200
In-Process Volume [veh/h]	0	0	0	9	0	0	0	159	0	0	251	9
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	244	0	0	0	0	-244	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	244	188	0	98	28	540	0	0	1392	91
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	1.0000	0.9140	0.9140	0.9140	1.0000	1.0000	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	67	51	0	27	8	148	0	0	381	25
Total Analysis Volume [veh/h]	0	0	267	206	0	107	31	591	0	0	1523	100
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Overlap	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss
Signal Group	0	0	8	4	0	0	5	2	0	0	6	0
Auxiliary Signal Groups			5,8									
Lead / Lag	-	-	-	Lag	-	-	Lead	-	-	-	-	-
Minimum Green [s]	0	0	10	10	0	0	5	10	0	0	5	0
Maximum Green [s]	0	0	30	30	0	0	30	30	0	0	30	0
Amber [s]	0.0	0.0	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	0	33	33	0	0	10	87	0	0	77	0
Vehicle Extension [s]	0.0	0.0	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	0	5	5	0	0	5	5	0	0	5	0
Pedestrian Clearance [s]	0	0	7	10	0	0	17	10	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk			No	No				No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall			No	No			No	No			No	
Maximum Recall			No	No			No	No			No	
Pedestrian Recall			No	No			No	No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	R	L	R	L	C	C	R
C, Cycle Length [s]	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	2.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	35	25	25	6	87	77	77
g / C, Green / Cycle	0.29	0.21	0.21	0.05	0.72	0.64	0.64
(v / s)_i Volume / Saturation Flow Rate	0.17	0.18	0.07	0.02	0.17	0.44	0.07
s, saturation flow rate [veh/h]	1530	1130	1530	1714	3427	3427	1530
c, Capacity [veh/h]	448	286	320	86	2481	2195	980
d1, Uniform Delay [s]	36.36	46.95	40.32	55.15	5.53	13.95	8.29
k, delay calibration	0.23	0.25	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.68	7.69	0.61	2.55	0.23	1.83	0.21
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.60	0.72	0.33	0.36	0.24	0.69	0.10
d, Delay for Lane Group [s/veh]	39.04	54.64	40.93	57.70	5.75	15.78	8.50
Lane Group LOS	D	D	D	E	A	B	A
Critical Lane Group	No	Yes	No	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	7.03	6.61	2.76	0.97	2.32	12.99	1.03
50th-Percentile Queue Length [ft/ln]	175.86	165.22	68.93	24.23	58.11	324.69	25.68
95th-Percentile Queue Length [veh/ln]	11.38	10.82	4.96	1.74	4.18	18.90	1.85
95th-Percentile Queue Length [ft/ln]	284.61	270.62	124.08	43.62	104.60	472.45	46.22

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	0.00	39.04	54.64	0.00	40.93	57.70	5.75	0.00	0.00	15.78	8.50
Movement LOS			D	D		D	E	A			B	A
d_A, Approach Delay [s/veh]	39.04			49.95			8.34			15.33		
Approach LOS	D			D			A			B		
d_I, Intersection Delay [s/veh]	19.87											
Intersection LOS	B											
Intersection V/C	0.645											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	51.34	51.34	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.100	2.754	0.000
Crosswalk LOS	F	B	C	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	650	483	1383	1217
d_b, Bicycle Delay [s]	27.34	34.50	5.70	9.20
l_b,int, Bicycle LOS Score for Intersection	1.560	1.560	2.073	2.899
Bicycle LOS	A	A	B	C

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 5: SR-210 EB Ramps at 5th Street

Control Type:	Signalized	Delay (sec / veh):	40.4
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.832

Intersection Setup

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	0	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present				No			No			No		
Crosswalk	Yes			Yes			No			No		

Volumes

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	137	8	135	0	363	436	852	1088	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0200	1.0200	1.0200	1.0000	1.0200	1.0200	1.0200	1.0200	1.0000
In-Process Volume [veh/h]	0	0	0	48	0	79	0	116	52	50	180	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	188	8	217	0	486	497	919	1290	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.8920	0.8920	0.8920	1.0000	0.8920	0.8920	0.8920	0.8920	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	53	2	61	0	136	139	258	362	0
Total Analysis Volume [veh/h]	0	0	0	211	9	243	0	545	557	1030	1446	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	0	0	0	0	2	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	10	0	0	10	0	5	10	0
Maximum Green [s]	0	0	0	0	30	0	0	30	0	30	30	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	18	0	0	47	0	55	102	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	7	0	0	7	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	R	C	R	L	C
C, Cycle Length [s]		120	120	120	120	120	120
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		14	14	53	53	41	98
g / C, Green / Cycle		0.12	0.12	0.44	0.44	0.34	0.82
(v / s)_i Volume / Saturation Flow Rate		0.13	0.16	0.16	0.36	0.31	0.42
s, saturation flow rate [veh/h]		1718	1530	3427	1530	3329	3427
c, Capacity [veh/h]		200	179	1512	675	1139	2799
d1, Uniform Delay [s]		53.00	53.00	22.27	29.45	37.61	3.49
k, delay calibration		0.11	0.18	0.50	0.50	0.11	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		60.01	175.49	0.67	11.02	3.02	0.69
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		1.10	1.36	0.36	0.82	0.90	0.52
d, Delay for Lane Group [s/veh]		113.01	228.49	22.94	40.47	40.64	4.17
Lane Group LOS		F	F	C	D	D	A
Critical Lane Group		No	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		9.37	14.07	5.24	15.84	14.69	4.30
50th-Percentile Queue Length [ft/ln]		234.15	351.71	130.91	396.04	367.30	107.56
95th-Percentile Queue Length [veh/ln]		14.94	22.63	8.99	22.37	20.98	7.70
95th-Percentile Queue Length [ft/ln]		373.46	565.67	224.73	559.22	524.45	192.60

Movement, Approach, & Intersection Results

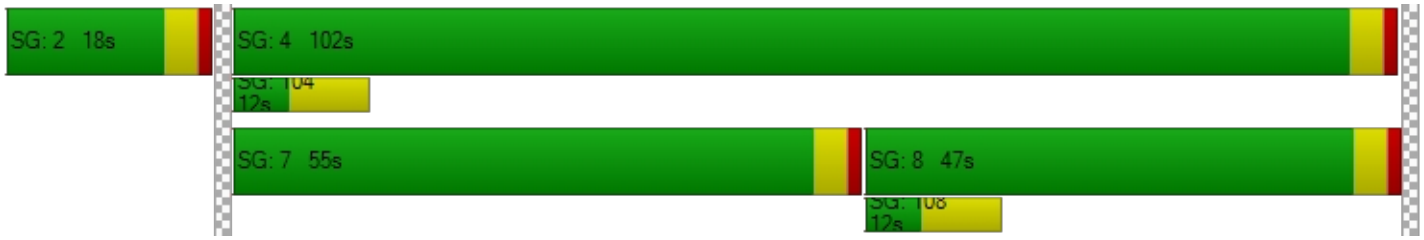
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	113.01	113.01	228.49	0.00	22.94	40.47	40.64	4.17	0.00
Movement LOS				F	F	F		C	D	D	A	
d_A, Approach Delay [s/veh]	0.00			173.62			31.80			19.34		
Approach LOS	A			F			C			B		
d_I, Intersection Delay [s/veh]	40.42											
Intersection LOS	D											
Intersection V/C	0.832											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.508	1.956	0.000	0.000
Crosswalk LOS	B	A	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	233	717	1633
d_b, Bicycle Delay [s]	60.00	46.82	24.70	2.02
l_b,int, Bicycle LOS Score for Intersection	4.132	2.324	2.469	3.602
Bicycle LOS	D	B	B	D

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Meines St and Palm Ave Warehouse Project

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Report File: K:\...\2. OY CUM PM.pdf

Scenario 2 OY CUM PM
5/2/2023

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Palm Avenue at Meines Street	Two-way stop	HCM 7th Edition	EB Left	0.065	19.1	C
2	Palm Avenue at 5th Street	Signalized	HCM 7th Edition	WB Left	0.877	110.5	F
3	Palm Avenue at 3rd Street	Signalized	HCM 7th Edition	WB Left	0.627	36.9	D
4	Church Avenue at 5th Street	Signalized	HCM 7th Edition	EB Left	0.725	24.6	C
5	SR-210 EB Ramps at 5th Street	Signalized	HCM 7th Edition	EB Right	0.930	63.5	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Palm Avenue at Meines Street

Control Type:	Two-way stop	Delay (sec / veh):	19.1
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.065

Intersection Setup

Name	Palm Avenue		Palm Avenue		Meines Street	
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	1	0	1	0	0
Exit Pocket Length [ft]	0.00	100.00	0.00	100.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Avenue		Palm Avenue		Meines Street	
Base Volume Input [veh/h]	11	909	639	14	17	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	78	78	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	1005	730	14	17	22
Peak Hour Factor	0.9480	0.9480	0.9480	0.9480	0.9480	0.9480
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	265	193	4	4	6
Total Analysis Volume [veh/h]	12	1060	770	15	18	23
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	1

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.01	0.00	0.07	0.04
d_M, Delay for Movement [s/veh]	9.35	0.00	0.00	0.00	19.11	11.98
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.02	0.01	0.00	0.00	0.34	0.34
95th-Percentile Queue Length [ft/ln]	0.50	0.25	0.00	0.00	8.57	8.57
d_A, Approach Delay [s/veh]	0.10		0.00		15.11	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	0.39					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 2: Palm Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	110.5
Analysis Method:	HCM 7th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.877

Intersection Setup

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	100	651	611	199	283	33	79	800	69	213	282	152
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	4	23	104	41	23	14	14	187	4	67	143	41
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	-546	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	106	687	181	244	312	48	95	1003	74	284	431	196
Peak Hour Factor	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	29	186	49	66	84	13	26	271	20	77	116	53
Total Analysis Volume [veh/h]	115	743	196	264	337	52	103	1084	80	307	466	212
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	31	37	0	31	37	0	26	33	0	19	26	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	21	0	0	17	0	0	24	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	C	L	C	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	40	40	20	50	50	9	29	29	15	35	35
g / C, Green / Cycle	0.08	0.33	0.33	0.17	0.42	0.42	0.08	0.24	0.24	0.13	0.29	0.29
(v / s)_i Volume / Saturation Flow Rate	0.07	0.22	0.13	0.15	0.11	0.11	0.06	0.33	0.33	0.18	0.20	0.20
s, saturation flow rate [veh/h]	1714	3427	1530	1714	1800	1717	1714	1800	1757	1714	1800	1612
c, Capacity [veh/h]	144	1128	504	293	749	715	130	435	425	214	524	469
d1, Uniform Delay [s]	53.98	34.48	30.97	48.76	22.99	23.01	54.54	45.50	45.50	52.50	37.64	37.64
k, delay calibration	0.11	0.50	0.50	0.17	0.50	0.50	0.11	0.50	0.50	0.24	0.22	0.22
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.75	3.02	2.26	14.33	0.86	0.91	10.38	173.24	174.83	207.37	3.25	3.62
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.80	0.66	0.39	0.90	0.27	0.27	0.79	1.35	1.36	1.43	0.68	0.68
d, Delay for Lane Group [s/veh]	63.73	37.50	33.23	63.09	23.86	23.92	64.92	218.74	220.33	259.87	40.90	41.27
Lane Group LOS	E	D	C	E	C	C	E	F	F	F	D	D
Critical Lane Group	No	Yes	No	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.80	9.71	4.69	8.89	3.87	3.73	3.44	33.78	33.16	18.78	9.73	8.76
50th-Percentile Queue Length [ft/ln]	95.04	242.73	117.33	222.31	96.87	93.15	85.91	844.48	828.94	469.50	243.18	218.95
95th-Percentile Queue Length [veh/ln]	6.84	14.82	8.25	13.78	6.97	6.71	6.19	50.54	49.74	29.59	14.84	13.61
95th-Percentile Queue Length [ft/ln]	171.07	370.49	206.15	344.58	174.36	167.67	154.65	1263.47	1243.43	739.66	371.05	340.29

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	63.73	37.50	33.23	63.09	23.88	23.92	64.92	219.47	220.33	259.87	40.98	41.27
Movement LOS	E	D	C	E	C	C	E	F	F	F	D	D
d_A, Approach Delay [s/veh]	39.56			39.74			206.96			109.26		
Approach LOS	D			D			F			F		
d_I, Intersection Delay [s/veh]	110.51											
Intersection LOS	F											
Intersection V/C	0.877											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.857	2.649	2.686	2.879
Crosswalk LOS	C	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	550	550	483	367
d_b, Bicycle Delay [s]	31.54	31.54	34.50	40.02
l_b,int, Bicycle LOS Score for Intersection	2.429	2.098	2.605	2.372
Bicycle LOS	B	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 3: Palm Avenue at 3rd Street

Control Type:	Signalized	Delay (sec / veh):	36.9
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.627

Intersection Setup

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Base Volume Input [veh/h]	212	881	7	10	448	94	481	35	412	10	3	23
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	14	0	0	14	53	90	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	-273	273	0	0	0	-273	273	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	216	640	280	10	471	149	308	309	420	10	3	23
Peak Hour Factor	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	58	171	75	3	126	40	82	83	112	3	1	6
Total Analysis Volume [veh/h]	231	684	299	11	503	159	329	330	449	11	3	25
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	21	37	0	10	26	0	25	63	0	10	48	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	17	0	0	17	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	R	L	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	17	63	63	2	47	47	14	38	38	2	26
g / C, Green / Cycle	0.14	0.52	0.52	0.01	0.39	0.39	0.12	0.32	0.32	0.01	0.21
(v / s)_i Volume / Saturation Flow Rate	0.13	0.29	0.29	0.01	0.19	0.19	0.10	0.18	0.29	0.01	0.02
s, saturation flow rate [veh/h]	1714	1800	1617	1714	1800	1654	3329	1800	1530	1714	1555
c, Capacity [veh/h]	243	940	844	23	709	651	395	572	486	23	331
d1, Uniform Delay [s]	51.09	19.22	19.27	58.78	27.26	27.31	51.71	34.18	39.51	58.78	37.88
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.14	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	17.87	2.31	2.60	14.73	2.37	2.61	4.62	0.92	9.63	14.73	0.11
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.95	0.55	0.55	0.48	0.49	0.49	0.83	0.58	0.92	0.48	0.08
d, Delay for Lane Group [s/veh]	68.96	21.53	21.88	73.51	29.63	29.93	56.33	35.10	49.13	73.51	37.99
Lane Group LOS	E	C	C	E	C	C	E	D	D	E	D
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	8.07	10.03	9.16	0.43	7.82	7.30	5.09	8.17	13.92	0.43	0.68
50th-Percentile Queue Length [ft/ln]	201.85	250.84	228.95	10.65	195.53	182.42	127.27	204.22	347.94	10.65	16.91
95th-Percentile Queue Length [veh/ln]	12.73	15.23	14.12	0.77	12.41	11.73	8.79	12.86	20.04	0.77	1.22
95th-Percentile Queue Length [ft/ln]	318.35	380.71	353.02	19.17	310.20	293.18	219.78	321.40	500.90	19.17	30.43

Movement, Approach, & Intersection Results

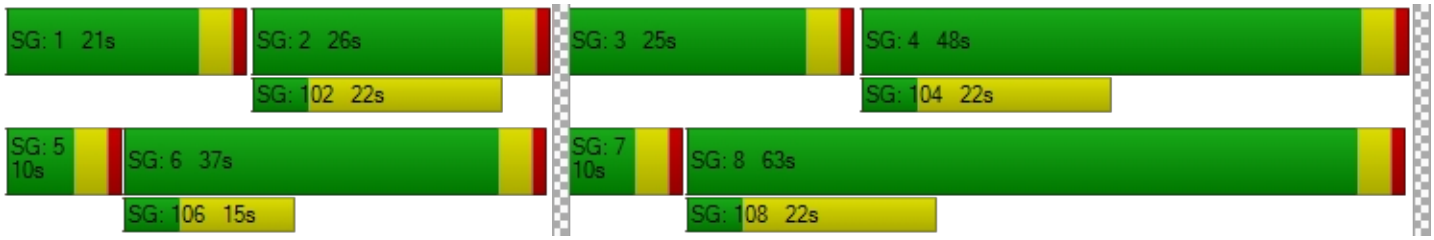
d_M, Delay for Movement [s/veh]	68.96	21.62	21.88	73.51	29.72	29.93	56.33	35.10	49.13	73.51	37.99	37.99
Movement LOS	E	C	C	E	C	C	E	D	D	E	D	D
d_A, Approach Delay [s/veh]	30.69			30.49			47.09			48.01		
Approach LOS	C			C			D			D		
d_I, Intersection Delay [s/veh]	36.86											
Intersection LOS	D											
Intersection V/C	0.627											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.740	2.649	2.608	2.176
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	550	367	983	733
d_b, Bicycle Delay [s]	31.54	40.02	15.50	24.07
l_b,int, Bicycle LOS Score for Intersection	2.561	2.115	3.388	1.624
Bicycle LOS	B	B	C	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 4: Church Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	24.6
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.725

Intersection Setup

Name	Church Avenue			Church Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	1	0	0	0	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Church Avenue			Church Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	91	0	35	67	1504	0	0	581	88
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0000	1.0200	1.0200	1.0200	1.0000	1.0000	1.0200	1.0200
In-Process Volume [veh/h]	0	0	0	13	0	0	0	332	0	0	251	13
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	546	0	0	0	0	-546	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	546	106	0	36	68	1320	0	0	844	103
Peak Hour Factor	0.9130	0.9130	0.9130	0.9130	1.0000	0.9130	0.9130	0.9130	1.0000	1.0000	0.9130	0.9130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	150	29	0	10	19	361	0	0	231	28
Total Analysis Volume [veh/h]	0	0	598	116	0	39	74	1446	0	0	924	113
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Overlap	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss
Signal Group	0	0	8	4	0	0	5	2	0	0	6	0
Auxiliary Signal Groups			5,8									
Lead / Lag	-	-	-	Lag	-	-	Lead	-	-	-	-	-
Minimum Green [s]	0	0	10	10	0	0	5	10	0	0	5	0
Maximum Green [s]	0	0	30	30	0	0	30	30	0	0	30	0
Amber [s]	0.0	0.0	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	0	42	42	0	0	29	78	0	0	49	0
Vehicle Extension [s]	0.0	0.0	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	0	5	5	0	0	5	5	0	0	5	0
Pedestrian Clearance [s]	0	0	10	10	0	0	17	10	0	0	10	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk			No	No				No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall			No	No			No	No			No	
Maximum Recall			No	No			No	No			No	
Pedestrian Recall			No	No			No	No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	R	L	R	L	C	C	R
C, Cycle Length [s]	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	2.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	66	37	37	25	75	46	46
g / C, Green / Cycle	0.55	0.31	0.31	0.21	0.62	0.38	0.38
(v / s)_i Volume / Saturation Flow Rate	0.39	0.14	0.03	0.04	0.42	0.27	0.07
s, saturation flow rate [veh/h]	1530	833	1530	1714	3427	3427	1530
c, Capacity [veh/h]	842	305	472	357	2140	1312	586
d1, Uniform Delay [s]	19.91	34.69	29.42	39.30	14.63	31.29	24.67
k, delay calibration	0.50	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.04	0.78	0.07	0.28	1.73	3.19	0.73
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.71	0.38	0.08	0.21	0.68	0.70	0.19
d, Delay for Lane Group [s/veh]	24.94	35.47	29.49	39.59	16.36	34.47	25.41
Lane Group LOS	C	D	C	D	B	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	13.07	2.85	0.82	1.85	12.54	11.76	2.28
50th-Percentile Queue Length [ft/ln]	326.77	71.21	20.42	46.15	313.59	294.01	56.89
95th-Percentile Queue Length [veh/ln]	19.00	5.13	1.47	3.32	18.35	17.38	4.10
95th-Percentile Queue Length [ft/ln]	475.00	128.17	36.76	83.07	458.80	434.61	102.40

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	0.00	24.94	35.47	0.00	29.49	39.59	16.36	0.00	0.00	34.47	25.41
Movement LOS			C	D		C	D	B			C	C
d_A, Approach Delay [s/veh]	24.94			33.97			17.49			33.49		
Approach LOS	C			C			B			C		
d_I, Intersection Delay [s/veh]	24.62											
Intersection LOS	C											
Intersection V/C	0.725											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	51.34	51.34	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.067	2.799	0.000
Crosswalk LOS	F	B	C	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1117	633	1233	750
d_b, Bicycle Delay [s]	11.70	28.02	8.82	23.44
l_b,int, Bicycle LOS Score for Intersection	1.560	1.560	2.814	2.415
Bicycle LOS	A	A	C	B

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 5: SR-210 EB Ramps at 5th Street

Control Type:	Signalized	Delay (sec / veh):	63.5
Analysis Method:	HCM 7th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.930

Intersection Setup

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	0	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present				No			No			No		
Crosswalk	Yes			Yes			No			No		

Volumes

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	355	7	133	0	1066	560	319	546	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0200	1.0200	1.0200	1.0000	1.0200	1.0200	1.0200	1.0200	1.0000
In-Process Volume [veh/h]	0	0	0	111	0	57	0	245	99	107	208	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	473	7	193	0	1332	670	432	765	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.9110	0.9110	0.9110	1.0000	0.9110	0.9110	0.9110	0.9110	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	130	2	53	0	366	184	119	210	0
Total Analysis Volume [veh/h]	0	0	0	519	8	212	0	1462	735	474	840	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	0	0	0	0	2	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	10	0	0	10	0	5	10	0
Maximum Green [s]	0	0	0	0	30	0	0	30	0	30	30	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	44	0	0	60	0	16	76	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	7	0	0	7	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	R	C	R	L	C
C, Cycle Length [s]		120	120	120	120	120	120
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		39	39	49	49	20	73
g / C, Green / Cycle		0.32	0.32	0.41	0.41	0.17	0.61
(v / s)_i Volume / Saturation Flow Rate		0.31	0.14	0.43	0.48	0.14	0.25
s, saturation flow rate [veh/h]		1716	1530	3427	1530	3329	3427
c, Capacity [veh/h]		552	492	1412	631	553	2096
d1, Uniform Delay [s]		39.84	32.04	35.27	35.27	48.64	11.99
k, delay calibration		0.40	0.11	0.50	0.50	0.11	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		24.98	0.60	33.53	91.03	3.97	0.57
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.95	0.43	1.04	1.17	0.86	0.40
d, Delay for Lane Group [s/veh]		64.82	32.64	68.81	126.31	52.61	12.56
Lane Group LOS		E	C	F	F	D	B
Critical Lane Group		Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		18.83	4.94	26.67	33.88	7.18	5.77
50th-Percentile Queue Length [ft/ln]		470.84	123.39	666.72	847.06	179.62	144.14
95th-Percentile Queue Length [veh/ln]		25.95	8.58	36.05	48.25	11.58	9.70
95th-Percentile Queue Length [ft/ln]		648.77	214.48	901.29	1206.19	289.51	242.58

Movement, Approach, & Intersection Results

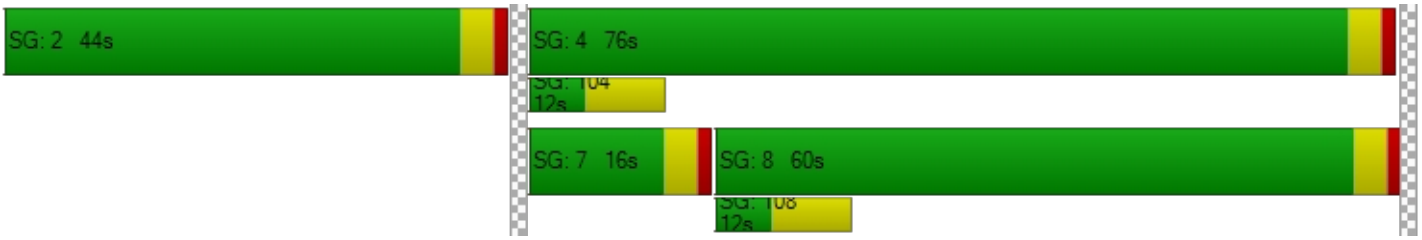
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	64.82	64.82	32.64	0.00	68.81	126.31	52.61	12.56	0.00
Movement LOS				E	E	C		F	F	D	B	
d_A, Approach Delay [s/veh]	0.00			55.59			88.04			27.01		
Approach LOS	A			E			F			C		
d_I, Intersection Delay [s/veh]	63.53											
Intersection LOS	E											
Intersection V/C	0.930											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.323	2.090	0.000	0.000
Crosswalk LOS	B	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	667	933	1200
d_b, Bicycle Delay [s]	60.00	26.67	17.07	9.60
l_b,int, Bicycle LOS Score for Intersection	4.132	2.779	3.372	2.644
Bicycle LOS	D	C	C	B

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



APPENDIX E-3

INTERSECTION ANALYSIS WORKSHEETS – OPENING YEAR 2024 CUMULATIVE PLUS PROJECT

Meines St and Palm Ave Warehouse Project

Vistro File: K:\...\Highland Lovett Warehouse_AM.vistro — Scenario 3 OY CUM WP AM

Report File: K:\...\3. OY CUM WP AM.pdf — 5/2/2023

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Palm Avenue at Meines Street	Two-way stop	HCM 7th Edition	EB Left	0.022	21.7	C
2	Palm Avenue at 5th Street	Signalized	HCM 7th Edition	SB Left	0.718	47.2	D
3	Palm Avenue at 3rd Street	Signalized	HCM 7th Edition	SB Left	0.652	30.1	C
4	Church Avenue at 5th Street	Signalized	HCM 7th Edition	EB Left	0.659	20.1	C
5	SR-210 EB Ramps at 5th Street	Signalized	HCM 7th Edition	SB Right	0.851	45.1	D
101	Palm Avenue at North Project Driveway	Two-way stop	HCM 7th Edition	EB Left	0.006	16.1	C
102	Palm Avenue at Meines Court/South Project Driveway	Two-way stop	HCM 7th Edition	WB Left	0.158	15.7	C
103	Meines Street at Project Driveway	Two-way stop	HCM 7th Edition	SB Left	0.004	8.8	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Palm Avenue at Meines Street

Control Type:	Two-way stop	Delay (sec / veh):	21.7
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.022

Intersection Setup

Name	Palm Avenue		Palm Avenue		Meines Street	
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	1	0	1	0	0
Exit Pocket Length [ft]	0.00	100.00	0.00	100.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Avenue		Palm Avenue		Meines Street	
Base Volume Input [veh/h]	11	363	806	11	4	10
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	66	66	0	0	0
Site-Generated Trips [veh/h]	18	30	9	0	0	4
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	29	466	897	11	4	14
Peak Hour Factor	0.8340	0.8340	0.8340	0.8340	0.8340	0.8340
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	9	140	269	3	1	4
Total Analysis Volume [veh/h]	35	559	1076	13	5	17
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	1

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.01	0.01	0.00	0.02	0.04
d_M, Delay for Movement [s/veh]	10.70	0.00	0.00	0.00	21.68	13.03
Movement LOS	B	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.06	0.03	0.00	0.00	0.18	0.18
95th-Percentile Queue Length [ft/ln]	1.49	0.74	0.00	0.00	4.56	4.56
d_A, Approach Delay [s/veh]	0.63		0.00		15.00	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.41					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 2: Palm Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	47.2
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.718

Intersection Setup

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	37	171	270	143	664	82	11	230	70	407	649	104
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	3	18	50	36	18	12	12	73	3	92	122	36
Site-Generated Trips [veh/h]	0	1	0	9	3	1	4	0	0	0	0	43
Diverted Trips [veh/h]	0	0	-244	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	41	193	81	191	698	97	27	308	74	507	784	185
Peak Hour Factor	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	53	22	52	191	27	7	84	20	139	215	51
Total Analysis Volume [veh/h]	45	211	89	209	765	106	30	337	81	555	859	203
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	12	26	0	17	31	0	10	30	0	47	67	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	17	0	0	17	0	0	21	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	C	L	C	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	33	33	13	42	42	3	17	17	41	54	54
g / C, Green / Cycle	0.03	0.28	0.28	0.11	0.35	0.35	0.03	0.14	0.14	0.34	0.45	0.45
(v / s)_i Volume / Saturation Flow Rate	0.03	0.06	0.06	0.12	0.25	0.25	0.02	0.12	0.12	0.32	0.30	0.31
s, saturation flow rate [veh/h]	1714	3427	1530	1714	1800	1724	1714	1800	1682	1714	1800	1684
c, Capacity [veh/h]	58	953	425	186	635	608	46	256	239	580	816	764
d1, Uniform Delay [s]	57.53	33.33	33.21	53.50	33.40	33.40	57.85	50.10	50.23	38.88	25.61	25.94
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.39	0.13	0.15
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	19.72	0.54	1.12	71.30	6.34	6.62	14.74	7.07	8.33	24.28	1.15	1.46
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.78	0.22	0.21	1.13	0.70	0.70	0.66	0.84	0.85	0.96	0.66	0.68
d, Delay for Lane Group [s/veh]	77.25	33.86	34.32	124.80	39.73	40.02	72.59	57.17	58.57	63.16	26.76	27.39
Lane Group LOS	E	C	C	F	D	D	E	E	E	E	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.67	2.45	2.13	9.27	12.15	11.69	1.09	6.75	6.52	19.65	12.12	11.87
50th-Percentile Queue Length [ft/ln]	41.81	61.28	53.31	231.70	303.75	292.33	27.26	168.77	163.05	491.26	303.04	296.83
95th-Percentile Queue Length [veh/ln]	3.01	4.41	3.84	14.93	17.87	17.30	1.96	11.01	10.71	26.92	17.83	17.52
95th-Percentile Queue Length [ft/ln]	75.25	110.30	95.96	373.19	446.66	432.53	49.06	275.30	267.76	673.01	445.79	438.11

Movement, Approach, & Intersection Results

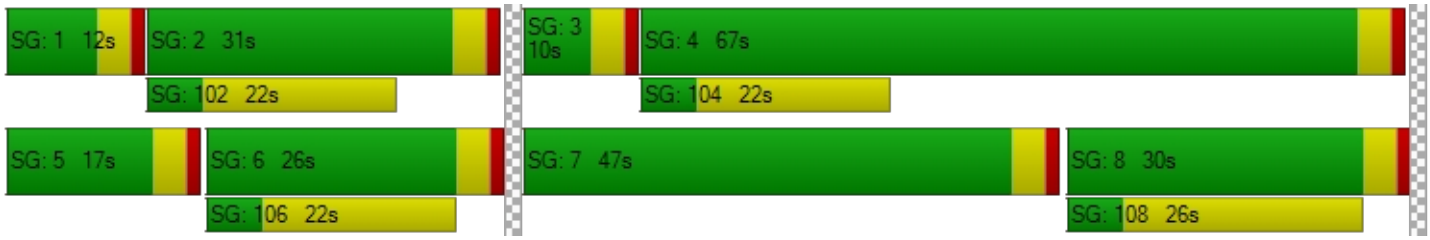
d_M, Delay for Movement [s/veh]	77.25	33.86	34.32	124.80	39.85	40.02	72.59	57.68	58.57	63.16	26.99	27.39
Movement LOS	E	C	C	F	D	D	E	E	E	E	C	C
d_A, Approach Delay [s/veh]	39.64			56.31			58.84			39.46		
Approach LOS	D			E			E			D		
d_I, Intersection Delay [s/veh]	47.18											
Intersection LOS	D											
Intersection V/C	0.718											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.852	2.612	2.599	2.834
Crosswalk LOS	C	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	367	450	433	1050
d_b, Bicycle Delay [s]	40.02	36.04	36.82	13.54
l_b,int, Bicycle LOS Score for Intersection	1.844	2.451	1.929	2.894
Bicycle LOS	A	B	A	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 3: Palm Avenue at 3rd Street

Control Type:	Signalized	Delay (sec / veh):	30.1
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.652

Intersection Setup

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Base Volume Input [veh/h]	191	405	7	32	913	168	118	3	192	7	4	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	12	0	0	12	82	40	0	0	0	0	0
Site-Generated Trips [veh/h]	0	1	0	3	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	-122	122	0	0	0	-122	122	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	195	304	129	36	943	253	38	125	196	7	4	47
Peak Hour Factor	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090	0.9090
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	54	84	35	10	259	70	10	34	54	2	1	13
Total Analysis Volume [veh/h]	215	334	142	40	1037	278	42	138	216	8	4	52
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	30	65	0	12	47	0	17	33	0	10	26	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	17	0	0	17	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	R	L	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	17	80	80	4	66	66	4	19	19	1	17
g / C, Green / Cycle	0.14	0.66	0.66	0.03	0.55	0.55	0.03	0.16	0.16	0.01	0.14
(v / s)_i Volume / Saturation Flow Rate	0.13	0.14	0.14	0.02	0.38	0.38	0.01	0.08	0.14	0.00	0.04
s, saturation flow rate [veh/h]	1714	1800	1621	1714	1800	1671	3329	1800	1530	1714	1547
c, Capacity [veh/h]	245	1194	1075	54	994	923	109	291	247	18	215
d1, Uniform Delay [s]	50.42	7.89	7.90	57.65	19.32	19.45	56.87	45.69	49.12	59.04	46.12
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.78	0.40	0.45	18.43	3.79	4.22	2.25	1.20	9.38	16.72	0.63
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.88	0.21	0.21	0.75	0.68	0.69	0.39	0.47	0.87	0.45	0.26
d, Delay for Lane Group [s/veh]	60.20	8.28	8.34	76.08	23.11	23.67	59.11	46.89	58.50	75.75	46.75
Lane Group LOS	E	A	A	E	C	C	E	D	E	E	D
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	6.98	2.54	2.32	1.48	14.13	13.45	0.66	3.84	6.95	0.32	1.54
50th-Percentile Queue Length [ft/ln]	174.56	63.42	57.99	36.98	353.20	336.13	16.47	96.12	173.75	8.12	38.43
95th-Percentile Queue Length [veh/ln]	11.32	4.57	4.18	2.66	20.29	19.46	1.19	6.92	11.27	0.58	2.77
95th-Percentile Queue Length [ft/ln]	282.90	114.15	104.39	66.56	507.31	486.46	29.64	173.01	281.84	14.61	69.18

Movement, Approach, & Intersection Results

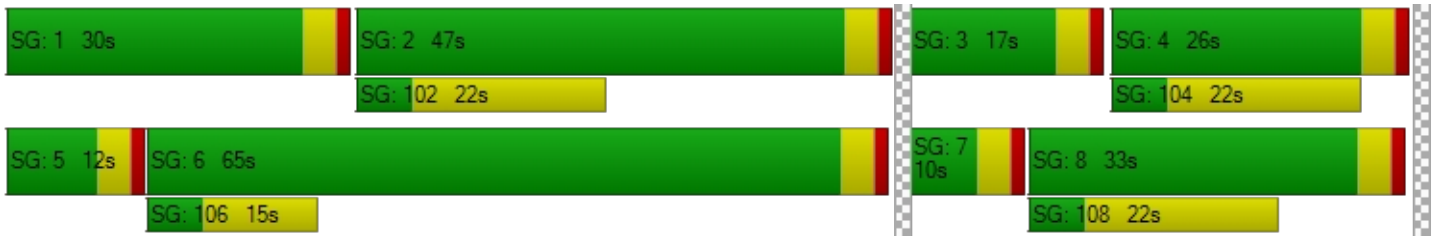
d_M, Delay for Movement [s/veh]	60.20	8.30	8.34	76.08	23.30	23.67	59.11	46.89	58.50	75.75	46.75	46.75
Movement LOS	E	A	A	E	C	C	E	D	E	E	D	D
d_A, Approach Delay [s/veh]	24.45			24.93			54.52			50.38		
Approach LOS	C			C			D			D		
d_I, Intersection Delay [s/veh]	30.13											
Intersection LOS	C											
Intersection V/C	0.652											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.696	2.663	2.489	2.080
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1017	717	483	367
d_b, Bicycle Delay [s]	14.50	24.70	34.50	40.02
l_b,int, Bicycle LOS Score for Intersection	2.130	2.677	2.213	1.665
Bicycle LOS	B	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 4: Church Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	20.1
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.659

Intersection Setup

Name	Church Avenue			Church Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	1	0	0	0	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Church Avenue			Church Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	175	0	96	27	613	0	0	1119	80
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0000	1.0200	1.0200	1.0200	1.0000	1.0000	1.0200	1.0200
In-Process Volume [veh/h]	0	0	0	9	0	0	0	159	0	0	251	9
Site-Generated Trips [veh/h]	0	0	3	0	0	0	0	9	0	0	43	0
Diverted Trips [veh/h]	0	0	244	0	0	0	0	-244	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	247	188	0	98	28	549	0	0	1435	91
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	1.0000	0.9140	0.9140	0.9140	1.0000	1.0000	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	68	51	0	27	8	150	0	0	393	25
Total Analysis Volume [veh/h]	0	0	270	206	0	107	31	601	0	0	1570	100
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Overlap	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss
Signal Group	0	0	8	4	0	0	5	2	0	0	6	0
Auxiliary Signal Groups			5,8									
Lead / Lag	-	-	-	Lag	-	-	Lead	-	-	-	-	-
Minimum Green [s]	0	0	10	10	0	0	5	10	0	0	5	0
Maximum Green [s]	0	0	30	30	0	0	30	30	0	0	30	0
Amber [s]	0.0	0.0	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	0	33	33	0	0	10	87	0	0	77	0
Vehicle Extension [s]	0.0	0.0	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	0	5	5	0	0	5	5	0	0	5	0
Pedestrian Clearance [s]	0	0	7	10	0	0	17	10	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk			No	No				No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall			No	No			No	No			No	
Maximum Recall			No	No			No	No			No	
Pedestrian Recall			No	No			No	No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	R	L	R	L	C	C	R
C, Cycle Length [s]	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	2.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	35	25	25	6	87	77	77
g / C, Green / Cycle	0.29	0.21	0.21	0.05	0.72	0.64	0.64
(v / s)_i Volume / Saturation Flow Rate	0.18	0.18	0.07	0.02	0.18	0.46	0.07
s, saturation flow rate [veh/h]	1530	1127	1530	1714	3427	3427	1530
c, Capacity [veh/h]	449	286	321	86	2479	2194	979
d1, Uniform Delay [s]	36.39	46.93	40.27	55.15	5.57	14.35	8.32
k, delay calibration	0.23	0.25	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.80	7.75	0.60	2.55	0.23	2.03	0.21
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.60	0.72	0.33	0.36	0.24	0.72	0.10
d, Delay for Lane Group [s/veh]	39.19	54.68	40.87	57.70	5.80	16.38	8.53
Lane Group LOS	D	D	D	E	A	B	A
Critical Lane Group	No	Yes	No	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	7.14	6.61	2.75	0.97	2.38	13.78	1.03
50th-Percentile Queue Length [ft/ln]	178.39	165.32	68.87	24.23	59.48	344.61	25.73
95th-Percentile Queue Length [veh/ln]	11.52	10.83	4.96	1.74	4.28	19.87	1.85
95th-Percentile Queue Length [ft/ln]	287.92	270.76	123.97	43.62	107.07	496.83	46.31

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	0.00	39.19	54.68	0.00	40.87	57.70	5.80	0.00	0.00	16.38	8.53
Movement LOS			D	D		D	E	A			B	A
d_A, Approach Delay [s/veh]	39.19			49.96			8.35			15.91		
Approach LOS	D			D			A			B		
d_I, Intersection Delay [s/veh]	20.13											
Intersection LOS	C											
Intersection V/C	0.659											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	51.34	51.34	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.100	2.765	0.000
Crosswalk LOS	F	B	C	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	650	483	1383	1217
d_b, Bicycle Delay [s]	27.34	34.50	5.70	9.20
l_b,int, Bicycle LOS Score for Intersection	1.560	1.560	2.081	2.937
Bicycle LOS	A	A	B	C

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 5: SR-210 EB Ramps at 5th Street

Control Type:	Signalized	Delay (sec / veh):	45.1
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.851

Intersection Setup

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	0	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present				No			No			No		
Crosswalk	Yes			Yes			No			No		

Volumes

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	137	8	135	0	363	436	852	1088	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0200	1.0200	1.0200	1.0000	1.0200	1.0200	1.0200	1.0200	1.0000
In-Process Volume [veh/h]	0	0	0	48	0	79	0	116	52	50	180	0
Site-Generated Trips [veh/h]	0	0	0	0	0	20	0	7	5	0	23	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	188	8	237	0	493	502	919	1313	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.8920	0.8920	0.8920	1.0000	0.8920	0.8920	0.8920	0.8920	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	53	2	66	0	138	141	258	368	0
Total Analysis Volume [veh/h]	0	0	0	211	9	266	0	553	563	1030	1472	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	0	0	0	0	2	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	10	0	0	10	0	5	10	0
Maximum Green [s]	0	0	0	0	30	0	0	30	0	30	30	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	18	0	0	47	0	55	102	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	7	0	0	7	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	R	C	R	L	C
C, Cycle Length [s]		120	120	120	120	120	120
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		14	14	53	53	41	98
g / C, Green / Cycle		0.12	0.12	0.44	0.44	0.34	0.82
(v / s)_i Volume / Saturation Flow Rate		0.13	0.17	0.16	0.37	0.31	0.43
s, saturation flow rate [veh/h]		1718	1530	3427	1530	3329	3427
c, Capacity [veh/h]		200	179	1512	675	1139	2799
d1, Uniform Delay [s]		53.00	53.00	22.33	29.63	37.61	3.53
k, delay calibration		0.11	0.23	0.50	0.50	0.11	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		60.01	233.73	0.68	11.58	3.02	0.71
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		1.10	1.49	0.37	0.83	0.90	0.53
d, Delay for Lane Group [s/veh]		113.01	286.73	23.02	41.21	40.64	4.25
Lane Group LOS		F	F	C	D	D	A
Critical Lane Group		No	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		9.37	16.96	5.33	16.18	14.69	4.44
50th-Percentile Queue Length [ft/ln]		234.15	423.91	133.22	404.54	367.30	110.99
95th-Percentile Queue Length [veh/ln]		14.94	27.23	9.11	22.78	20.98	7.89
95th-Percentile Queue Length [ft/ln]		373.46	680.81	227.87	569.47	524.45	197.37

Movement, Approach, & Intersection Results

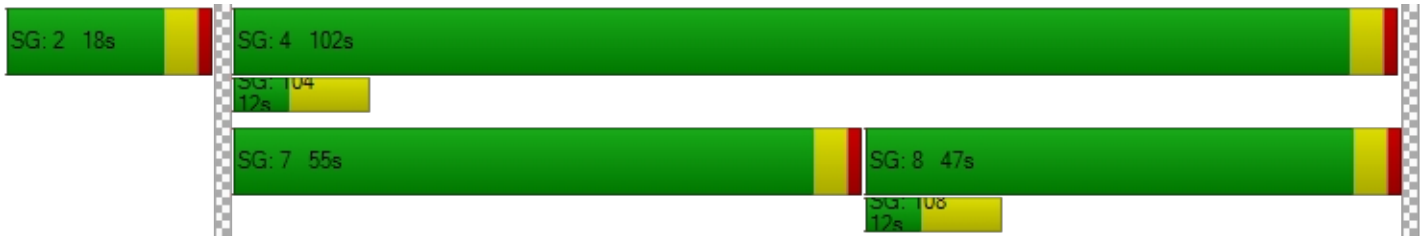
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	113.01	113.01	286.73	0.00	23.02	41.21	40.64	4.25	0.00
Movement LOS				F	F	F		C	D	D	A	
d_A, Approach Delay [s/veh]	0.00			208.09			32.20			19.23		
Approach LOS	A			F			C			B		
d_I, Intersection Delay [s/veh]	45.12											
Intersection LOS	D											
Intersection V/C	0.851											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.511	1.967	0.000	0.000
Crosswalk LOS	B	A	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	233	717	1633
d_b, Bicycle Delay [s]	60.00	46.82	24.70	2.02
l_b,int, Bicycle LOS Score for Intersection	4.132	2.362	2.480	3.624
Bicycle LOS	D	B	B	D

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 101: Palm Avenue at North Project Driveway

Control Type:	Two-way stop	Delay (sec / veh):	16.1
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.006

Intersection Setup

Name	Palm Avenue		Palm Avenue		North Project Driveway	
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	1	0	0	0	0
Exit Pocket Length [ft]	0.00	100.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Avenue		Palm Avenue		North Project Driveway	
Base Volume Input [veh/h]	0	367	817	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	18	18	0	0	0
Site-Generated Trips [veh/h]	20	0	0	5	2	6
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	20	392	851	5	2	6
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	103	224	1	1	2
Total Analysis Volume [veh/h]	21	413	896	5	2	6
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.00	0.01	0.00	0.01	0.01
d_M, Delay for Movement [s/veh]	9.94	0.00	0.00	0.00	16.08	11.60
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.09	0.00	0.00	0.00	0.05	0.05
95th-Percentile Queue Length [ft/ln]	2.16	0.00	0.00	0.00	1.29	1.29
d_A, Approach Delay [s/veh]	0.48		0.00		12.72	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.23					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 102: Palm Avenue at Meines Court/South Project Driveway

Control Type:	Two-way stop	Delay (sec / veh):	15.7
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.158

Intersection Setup

Name	Palm Avenue			Palm Avenue			South Project Driveway			Meines Court		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			South Project Driveway			Meines Court		
Base Volume Input [veh/h]	0	367	0	0	817	0	0	0	0	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	6	60	12	6	0	0	0	0	60	0	12
Site-Generated Trips [veh/h]	10	20	0	0	6	0	0	0	3	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	400	60	12	845	0	0	0	3	60	0	12
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	105	16	3	222	0	0	0	1	16	0	3
Total Analysis Volume [veh/h]	11	421	63	13	889	0	0	0	3	63	0	13
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			Yes	Yes
Number of Storage Spaces in Median	0	0	2	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.16	0.00	0.02
d_M, Delay for Movement [s/veh]	9.82	0.00	0.00	8.39	0.00	0.00	18.43	17.26	11.45	15.75	19.06	11.49
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	B
95th-Percentile Queue Length [veh/ln]	0.04	0.00	0.00	0.04	0.00	0.00	0.02	0.02	0.02	0.63	0.63	0.63
95th-Percentile Queue Length [ft/ln]	1.10	0.00	0.00	0.92	0.00	0.00	0.40	0.40	0.40	15.66	15.66	15.66
d_A, Approach Delay [s/veh]	0.22			0.12			11.45			15.02		
Approach LOS	A			A			B			C		
d_I, Intersection Delay [s/veh]	0.94											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 103: Meines Street at Project Driveway

Control Type:	Two-way stop	Delay (sec / veh):	8.8
Analysis Method:	HCM 7th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.004

Intersection Setup

Name	Project Driveway		Meines Street		Meines Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name	Project Driveway		Meines Street		Meines Street	
Base Volume Input [veh/h]	0	0	0	14	22	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	4	0	0	0	0	18
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	0	0	14	22	18
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	0	0	4	6	5
Total Analysis Volume [veh/h]	4	0	0	15	23	19
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	8.76	8.47	7.30	0.00	0.00	0.00
Movement LOS	A	A	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.01	0.01	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.31	0.31	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	8.76		0.00		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	0.57					
Intersection LOS	A					

Meines St and Palm Ave Warehouse Project

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Report File: K:\...\3. OY CUM WP PM.pdf

Scenario 3 OY CUM WP PM
5/2/2023

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Palm Avenue at Meines Street	Two-way stop	HCM 7th Edition	EB Left	0.069	20.1	C
2	Palm Avenue at 5th Street	Signalized	HCM 7th Edition	WB Left	0.896	110.4	F
3	Palm Avenue at 3rd Street	Signalized	HCM 7th Edition	WB Left	0.627	37.3	D
4	Church Avenue at 5th Street	Signalized	HCM 7th Edition	EB Left	0.742	25.3	C
5	SR-210 EB Ramps at 5th Street	Signalized	HCM 7th Edition	EB Right	0.944	68.1	E
101	Palm Avenue at North Project Driveway	Two-way stop	HCM 7th Edition	EB Left	0.014	15.4	C
102	Palm Avenue at Meines Court/South Project Driveway	Two-way stop	HCM 7th Edition	WB Left	0.336	30.1	D
103	Meines Street at Project Driveway	Two-way stop	HCM 7th Edition	SB Left	0.020	8.9	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Palm Avenue at Meines Street

Control Type:	Two-way stop	Delay (sec / veh):	20.1
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.069

Intersection Setup

Name	Palm Avenue		Palm Avenue		Meines Street	
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	1	0	1	0	0
Exit Pocket Length [ft]	0.00	100.00	0.00	100.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Avenue		Palm Avenue		Meines Street	
Base Volume Input [veh/h]	11	909	639	14	17	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	78	78	0	0	0
Site-Generated Trips [veh/h]	8	12	30	0	0	18
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	19	1017	760	14	17	40
Peak Hour Factor	0.9480	0.9480	0.9480	0.9480	0.9480	0.9480
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	268	200	4	4	11
Total Analysis Volume [veh/h]	20	1073	802	15	18	42
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	1

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.02	0.01	0.01	0.00	0.07	0.07
d_M, Delay for Movement [s/veh]	9.48	0.00	0.00	0.00	20.13	12.44
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.03	0.02	0.00	0.00	0.48	0.48
95th-Percentile Queue Length [ft/ln]	0.84	0.42	0.00	0.00	12.06	12.06
d_A, Approach Delay [s/veh]	0.17		0.00		14.75	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.55					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 2: Palm Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	110.4
Analysis Method:	HCM 7th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.896

Intersection Setup

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	100	651	611	199	283	33	79	800	69	213	282	152
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	4	23	104	41	23	14	14	187	4	67	143	41
Site-Generated Trips [veh/h]	0	1	0	30	14	4	2	0	0	0	0	17
Diverted Trips [veh/h]	0	0	-546	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	106	688	181	274	326	52	97	1003	74	284	431	213
Peak Hour Factor	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	29	186	49	74	88	14	26	271	20	77	116	58
Total Analysis Volume [veh/h]	115	744	196	296	352	56	105	1084	80	307	466	230
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	31	37	0	31	37	0	26	33	0	19	26	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	21	0	0	17	0	0	24	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	C	L	C	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	37	37	23	50	50	9	29	29	15	35	35
g / C, Green / Cycle	0.08	0.31	0.31	0.19	0.42	0.42	0.08	0.24	0.24	0.13	0.29	0.29
(v / s)_i Volume / Saturation Flow Rate	0.07	0.22	0.13	0.17	0.12	0.12	0.06	0.33	0.33	0.18	0.20	0.20
s, saturation flow rate [veh/h]	1714	3427	1530	1714	1800	1715	1714	1800	1757	1714	1800	1602
c, Capacity [veh/h]	144	1067	476	324	749	714	132	435	425	214	521	464
d1, Uniform Delay [s]	53.98	36.36	32.65	47.72	23.13	23.15	54.46	45.50	45.50	52.50	38.06	38.06
k, delay calibration	0.11	0.50	0.50	0.22	0.50	0.50	0.11	0.50	0.50	0.24	0.24	0.24
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.75	3.79	2.62	18.11	0.92	0.98	10.33	173.23	174.84	207.37	3.90	4.37
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.80	0.70	0.41	0.91	0.28	0.28	0.80	1.35	1.36	1.43	0.71	0.71
d, Delay for Lane Group [s/veh]	63.73	40.15	35.27	65.83	24.06	24.12	64.79	218.73	220.34	259.87	41.95	42.43
Lane Group LOS	E	D	D	E	C	C	E	F	F	F	D	D
Critical Lane Group	No	Yes	No	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.80	10.10	4.86	10.27	4.10	3.93	3.50	33.78	33.16	18.78	10.18	9.12
50th-Percentile Queue Length [ft/ln]	95.04	252.46	121.47	256.78	102.43	98.22	87.49	844.45	828.97	469.50	254.55	228.04
95th-Percentile Queue Length [veh/ln]	6.84	15.31	8.47	15.53	7.37	7.07	6.30	50.54	49.74	29.59	15.42	14.07
95th-Percentile Queue Length [ft/ln]	171.07	382.75	211.84	388.18	184.37	176.80	157.49	1263.43	1243.48	739.66	385.38	351.87

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	63.73	40.15	35.27	65.83	24.08	24.12	64.79	219.47	220.34	259.87	42.05	42.43
Movement LOS	E	D	D	E	C	C	E	F	F	F	D	D
d_A, Approach Delay [s/veh]	41.81			41.64			206.72			108.81		
Approach LOS	D			D			F			F		
d_I, Intersection Delay [s/veh]	110.37											
Intersection LOS	F											
Intersection V/C	0.896											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.859	2.663	2.687	2.887
Crosswalk LOS	C	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	550	550	483	367
d_b, Bicycle Delay [s]	31.54	31.54	34.50	40.02
l_b,int, Bicycle LOS Score for Intersection	2.430	2.140	2.607	2.387
Bicycle LOS	B	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 3: Palm Avenue at 3rd Street

Control Type:	Signalized	Delay (sec / veh):	37.3
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.627

Intersection Setup

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	1	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			3rd Street			Church Avenue		
Base Volume Input [veh/h]	212	881	7	10	448	94	481	35	412	10	3	23
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	14	0	0	14	53	90	0	0	0	0	0
Site-Generated Trips [veh/h]	0	1	0	13	1	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	-273	273	0	0	0	-273	273	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	216	641	280	23	472	149	308	309	420	10	3	23
Peak Hour Factor	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360	0.9360
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	58	171	75	6	126	40	82	83	112	3	1	6
Total Analysis Volume [veh/h]	231	685	299	25	504	159	329	330	449	11	3	25
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	1	6	0	5	2	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	21	37	0	10	26	0	25	63	0	10	48	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	10	0	0	17	0	0	17	0	0	17	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	R	L	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	17	61	61	3	47	47	14	38	38	2	26
g / C, Green / Cycle	0.14	0.51	0.51	0.02	0.39	0.39	0.12	0.32	0.32	0.01	0.21
(v / s)_i Volume / Saturation Flow Rate	0.13	0.29	0.29	0.01	0.19	0.19	0.10	0.18	0.29	0.01	0.02
s, saturation flow rate [veh/h]	1714	1800	1617	1714	1800	1654	3329	1800	1530	1714	1555
c, Capacity [veh/h]	243	920	827	41	709	651	395	572	486	23	331
d1, Uniform Delay [s]	51.09	20.09	20.14	58.00	27.27	27.32	51.71	34.18	39.51	58.78	37.88
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.14	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	17.87	2.47	2.79	13.64	2.38	2.62	4.62	0.92	9.63	14.73	0.11
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.95	0.56	0.56	0.61	0.49	0.49	0.83	0.58	0.92	0.48	0.08
d, Delay for Lane Group [s/veh]	68.96	22.57	22.93	71.65	29.65	29.94	56.33	35.10	49.13	73.51	37.99
Lane Group LOS	E	C	C	E	C	C	E	D	D	E	D
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	8.07	10.33	9.43	0.91	7.84	7.31	5.09	8.17	13.92	0.43	0.68
50th-Percentile Queue Length [ft/ln]	201.85	258.33	235.86	22.70	195.99	182.69	127.27	204.22	347.94	10.65	16.91
95th-Percentile Queue Length [veh/ln]	12.73	15.61	14.47	1.63	12.43	11.74	8.79	12.86	20.04	0.77	1.22
95th-Percentile Queue Length [ft/ln]	318.35	390.13	361.80	40.87	310.79	293.52	219.78	321.40	500.90	19.17	30.43

Movement, Approach, & Intersection Results

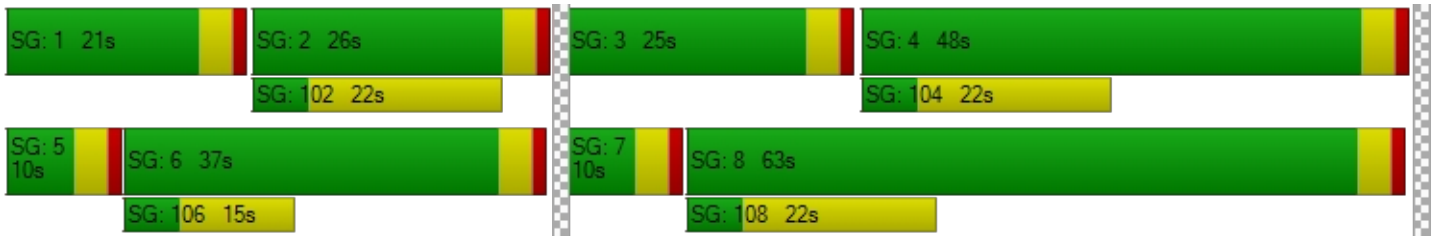
d_M, Delay for Movement [s/veh]	68.96	22.66	22.93	71.65	29.74	29.94	56.33	35.10	49.13	73.51	37.99	37.99
Movement LOS	E	C	C	E	C	C	E	D	D	E	D	D
d_A, Approach Delay [s/veh]	31.53			31.31			47.09			48.01		
Approach LOS	C			C			D			D		
d_I, Intersection Delay [s/veh]	37.34											
Intersection LOS	D											
Intersection V/C	0.627											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	51.34	51.34
l_p,int, Pedestrian LOS Score for Intersection	2.740	2.652	2.608	2.181
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	550	367	983	733
d_b, Bicycle Delay [s]	31.54	40.02	15.50	24.07
l_b,int, Bicycle LOS Score for Intersection	2.562	2.127	3.388	1.624
Bicycle LOS	B	B	C	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 4: Church Avenue at 5th Street

Control Type:	Signalized	Delay (sec / veh):	25.3
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.742

Intersection Setup

Name	Church Avenue			Church Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	1	0	0	0	0	1
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Church Avenue			Church Avenue			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	91	0	35	67	1504	0	0	581	88
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0000	1.0200	1.0200	1.0200	1.0000	1.0000	1.0200	1.0200
In-Process Volume [veh/h]	0	0	0	13	0	0	0	332	0	0	251	13
Site-Generated Trips [veh/h]	0	0	13	0	0	0	0	30	0	0	17	0
Diverted Trips [veh/h]	0	0	546	0	0	0	0	-546	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	559	106	0	36	68	1350	0	0	861	103
Peak Hour Factor	0.9130	0.9130	0.9130	0.9130	1.0000	0.9130	0.9130	0.9130	1.0000	1.0000	0.9130	0.9130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	153	29	0	10	19	370	0	0	236	28
Total Analysis Volume [veh/h]	0	0	612	116	0	39	74	1479	0	0	943	113
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Overlap	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss
Signal Group	0	0	8	4	0	0	5	2	0	0	6	0
Auxiliary Signal Groups			5,8									
Lead / Lag	-	-	-	Lag	-	-	Lead	-	-	-	-	-
Minimum Green [s]	0	0	10	10	0	0	5	10	0	0	5	0
Maximum Green [s]	0	0	30	30	0	0	30	30	0	0	30	0
Amber [s]	0.0	0.0	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	0	42	42	0	0	29	78	0	0	49	0
Vehicle Extension [s]	0.0	0.0	3.0	3.0	0.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	0	5	5	0	0	5	5	0	0	5	0
Pedestrian Clearance [s]	0	0	10	10	0	0	17	10	0	0	10	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk			No	No				No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall			No	No			No	No			No	
Maximum Recall			No	No			No	No			No	
Pedestrian Recall			No	No			No	No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	R	L	R	L	C	C	R
C, Cycle Length [s]	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	2.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	0.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	67	38	38	25	74	45	45
g / C, Green / Cycle	0.56	0.31	0.31	0.21	0.62	0.38	0.38
(v / s)_i Volume / Saturation Flow Rate	0.40	0.14	0.03	0.04	0.43	0.28	0.07
s, saturation flow rate [veh/h]	1530	823	1530	1714	3427	3427	1530
c, Capacity [veh/h]	850	305	481	357	2122	1294	578
d1, Uniform Delay [s]	19.73	34.40	28.96	39.30	15.31	32.07	25.10
k, delay calibration	0.50	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.22	0.78	0.07	0.28	1.92	3.63	0.76
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.72	0.38	0.08	0.21	0.70	0.73	0.20
d, Delay for Lane Group [s/veh]	24.95	35.18	29.03	39.59	17.23	35.70	25.86
Lane Group LOS	C	D	C	D	B	D	C
Critical Lane Group	Yes	No	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	13.40	2.84	0.81	1.85	13.32	12.27	2.30
50th-Percentile Queue Length [ft/ln]	334.96	70.90	20.23	46.15	333.04	306.75	57.51
95th-Percentile Queue Length [veh/ln]	19.40	5.11	1.46	3.32	19.31	18.01	4.14
95th-Percentile Queue Length [ft/ln]	485.03	127.63	36.42	83.07	482.69	450.37	103.52

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	0.00	24.95	35.18	0.00	29.03	39.59	17.23	0.00	0.00	35.70	25.86
Movement LOS			C	D		C	D	B			D	C
d_A, Approach Delay [s/veh]	24.95			33.63			18.29			34.65		
Approach LOS	C			C			B			C		
d_I, Intersection Delay [s/veh]	25.32											
Intersection LOS	C											
Intersection V/C	0.742											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	51.34	51.34	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.067	2.809	0.000
Crosswalk LOS	F	B	C	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1117	633	1233	750
d_b, Bicycle Delay [s]	11.70	28.02	8.82	23.44
l_b,int, Bicycle LOS Score for Intersection	1.560	1.560	2.841	2.431
Bicycle LOS	A	A	C	B

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report
Intersection 5: SR-210 EB Ramps at 5th Street

Control Type:	Signalized	Delay (sec / veh):	68.1
Analysis Method:	HCM 7th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.944

Intersection Setup

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	1	0	0	1	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	1	0	0	0	0	0	0	0	0	1
Exit Pocket Length [ft]	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present				No			No			No		
Crosswalk	Yes			Yes			No			No		

Volumes

Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Base Volume Input [veh/h]	0	0	0	355	7	133	0	1066	560	319	546	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Proportion of CAVs [%]	0.00											
Growth Factor	1.0000	1.0000	1.0000	1.0200	1.0200	1.0200	1.0000	1.0200	1.0200	1.0200	1.0200	1.0000
In-Process Volume [veh/h]	0	0	0	111	0	57	0	245	99	107	208	0
Site-Generated Trips [veh/h]	0	0	0	0	0	8	0	23	20	0	9	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	0	473	7	201	0	1355	690	432	774	0
Peak Hour Factor	1.0000	1.0000	1.0000	0.9110	0.9110	0.9110	1.0000	0.9110	0.9110	0.9110	0.9110	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	130	2	55	0	372	189	119	212	0
Total Analysis Volume [veh/h]	0	0	0	519	8	221	0	1487	757	474	850	0
Presence of On-Street Parking				No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	0	0	0	0	2	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	10	0	0	10	0	5	10	0
Maximum Green [s]	0	0	0	0	30	0	0	30	0	30	30	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	44	0	0	60	0	16	76	0
Vehicle Extension [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	0	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	7	0	0	7	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk					No			No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	R	C	R	L	C
C, Cycle Length [s]		120	120	120	120	120	120
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]		39	39	49	49	20	73
g / C, Green / Cycle		0.32	0.32	0.41	0.41	0.17	0.61
(v / s)_i Volume / Saturation Flow Rate		0.31	0.14	0.43	0.49	0.14	0.25
s, saturation flow rate [veh/h]		1716	1530	3427	1530	3329	3427
c, Capacity [veh/h]		552	492	1412	630	553	2096
d1, Uniform Delay [s]		39.83	32.26	35.28	35.28	48.64	12.04
k, delay calibration		0.40	0.11	0.50	0.50	0.11	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]		24.95	0.64	39.24	105.04	3.97	0.58
d3, Initial Queue Delay [s]		0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.95	0.45	1.05	1.20	0.86	0.41
d, Delay for Lane Group [s/veh]		64.79	32.90	74.52	140.31	52.61	12.63
Lane Group LOS		E	C	F	F	D	B
Critical Lane Group		Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		18.83	5.18	27.79	36.33	7.18	5.86
50th-Percentile Queue Length [ft/ln]		470.72	129.56	694.64	908.26	179.62	146.46
95th-Percentile Queue Length [veh/ln]		25.95	8.92	37.84	52.27	11.58	9.83
95th-Percentile Queue Length [ft/ln]		648.63	222.89	945.97	1306.80	289.51	245.69

Movement, Approach, & Intersection Results

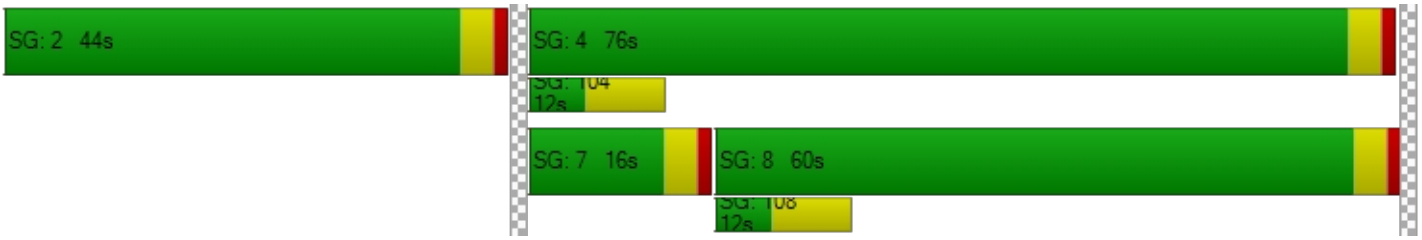
d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	64.79	64.79	32.90	0.00	74.52	140.31	52.61	12.63	0.00
Movement LOS				E	E	C		F	F	D	B	
d_A, Approach Delay [s/veh]	0.00			55.37			96.71			26.94		
Approach LOS	A			E			F			C		
d_I, Intersection Delay [s/veh]	68.14											
Intersection LOS	E											
Intersection V/C	0.944											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	51.34	51.34	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.334	2.095	0.000	0.000
Crosswalk LOS	B	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	667	933	1200
d_b, Bicycle Delay [s]	60.00	26.67	17.07	9.60
l_b,int, Bicycle LOS Score for Intersection	4.132	2.794	3.411	2.652
Bicycle LOS	D	C	C	B

Sequence

Ring 1	-	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 101: Palm Avenue at North Project Driveway

Control Type:	Two-way stop	Delay (sec / veh):	15.4
Analysis Method:	HCM 7th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.014

Intersection Setup

Name	Palm Avenue		Palm Avenue		North Project Driveway	
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	1	0	0	0	0
Exit Pocket Length [ft]	0.00	100.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Avenue		Palm Avenue		North Project Driveway	
Base Volume Input [veh/h]	0	926	653	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	23	23	0	0	0
Site-Generated Trips [veh/h]	8	0	0	2	5	20
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	8	968	689	2	5	20
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	255	181	1	1	5
Total Analysis Volume [veh/h]	8	1019	725	2	5	21
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.01	0.00	0.01	0.03
d_M, Delay for Movement [s/veh]	9.17	0.00	0.00	0.00	15.39	11.01
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.03	0.00	0.00	0.00	0.15	0.15
95th-Percentile Queue Length [ft/ln]	0.69	0.00	0.00	0.00	3.70	3.70
d_A, Approach Delay [s/veh]	0.07		0.00		11.85	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.21					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 102: Palm Avenue at Meines Court/South Project Driveway

Control Type:	Two-way stop	Delay (sec / veh):	30.1
Analysis Method:	HCM 7th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.336

Intersection Setup

Name	Palm Avenue			Palm Avenue			South Project Driveway			Meines Court		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			Yes			Yes		

Volumes

Name	Palm Avenue			Palm Avenue			South Project Driveway			Meines Court		
Base Volume Input [veh/h]	0	926	0	0	653	0	0	0	0	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	9	69	14	9	0	0	0	0	69	0	14
Site-Generated Trips [veh/h]	4	8	0	0	20	0	0	0	10	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	962	69	14	695	0	0	0	10	69	0	14
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	253	18	4	183	0	0	0	3	18	0	4
Total Analysis Volume [veh/h]	4	1013	73	15	732	0	0	0	11	73	0	15
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			Yes	Yes
Number of Storage Spaces in Median	0	0	2	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.01	0.00	0.02	0.01	0.00	0.00	0.00	0.02	0.34	0.00	0.03
d_M, Delay for Movement [s/veh]	9.16	0.00	0.00	10.78	0.00	0.00	17.52	21.29	10.81	30.07	28.71	20.92
Movement LOS	A	A	A	B	A	A	C	C	B	D	D	C
95th-Percentile Queue Length [veh/ln]	0.01	0.00	0.00	0.07	0.00	0.00	0.05	0.05	0.05	1.61	1.61	1.61
95th-Percentile Queue Length [ft/ln]	0.35	0.00	0.00	1.80	0.00	0.00	1.33	1.33	1.33	40.16	40.16	40.16
d_A, Approach Delay [s/veh]	0.03			0.22			10.81			28.51		
Approach LOS	A			A			B			D		
d_I, Intersection Delay [s/veh]	1.46											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 103: Meines Street at Project Driveway

Control Type:	Two-way stop	Delay (sec / veh):	8.9
Analysis Method:	HCM 7th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.020

Intersection Setup

Name	Project Driveway		Meines Street		Meines Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		No		No	

Volumes

Name	Project Driveway		Meines Street		Meines Street	
Base Volume Input [veh/h]	0	0	0	39	25	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	18	0	0	0	0	8
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	0	0	40	26	8
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	0	0	11	7	2
Total Analysis Volume [veh/h]	19	0	0	42	27	8
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.02	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	8.95	8.53	7.28	0.00	0.00	0.00
Movement LOS	A	A	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.06	0.06	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.56	1.56	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	8.95		0.00		0.00	
Approach LOS	A		A		A	
d_I, Intersection Delay [s/veh]	1.77					
Intersection LOS	A					

APPENDIX F

CUMULATIVE PROJECTS INFORMATION

Enter only in blue cells	Yellow cells calculate

Int. #:	1	Palm Avenue at Meines Street

Mirror distribution? Y Entire Intersection

Mirror distribution?

TOTAL CUMULATIVE PROJECTS TRAFFIC

Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	60	0	0	6	0	0	0	0	0	0	0
AM Out		0	6	0	0	60	0	0	0	0	0	0	0
AM Tot		0	66	0	0	66	0	0	0	0	0	0	0
PM In		0	69	0	0	9	0	0	0	0	0	0	0
PM Out		0	9	0	0	69	0	0	0	0	0	0	0
PM Tot		0	78	0	0	78	0	0	0	0	0	0	0

Zone #	1	Cumulative Projects 1, 2, 3, 5, and 26

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	130	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	154	0	0	0	0	0	0	0	0	0	0	0	0
PM In	232	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	215	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	2	Cumulative Projects 4, 6, 7, 8, and 9

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	179	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	171	0	0	0	0	0	0	0	0	0	0	0	0
PM In	265	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	250	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	3	Cumulative Projects 10 and 11

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	20	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	24	0	0	0	0	0	0	0	0	0	0	0	0
PM In	43	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	37	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	4	Cumulative Projects 12 and 13

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	98	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	20	0	0	0	0	0	0	0	0	0	0	0	0
PM In	26	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	92	0	0	0	0	0	0	0	0	0	0	0	0

Int. #:	1	Palm Avenue at Meines Street

Zone #	5	Cumulative Projects 14, 15, 16, 17, 18, 21, 22, 23, 24

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	954	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	1,000	0	0	0	0	0	0	0	0	0	0	0	0
PM In	2,210	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	2,133	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	6	Cumulative Projects 19 and 20

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In					10%							
Y	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	64	0	0	0	0	6	0	0	0	0	0	0	0
AM Out	64	0	6	0	0	0	0	0	0	0	0	0	0
PM In	87	0	0	0	0	9	0	0	0	0	0	0	0
PM Out	87	0	9	0	0	0	0	0	0	0	0	0	0

Zone #	7	Cumulative Project 27

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	151	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	45	0	0	0	0	0	0	0	0	0	0	0	0
PM In	58	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	150	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	8	Cumulative Project 25

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		50%										
Y	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	120	0	60	0	0	0	0	0	0	0	0	0	0
AM Out	120	0	0	0	0	60	0	0	0	0	0	0	0
PM In	138	0	69	0	0	0	0	0	0	0	0	0	0
PM Out	138	0	0	0	0	69	0	0	0	0	0	0	0

Enter only in blue cells	Yellow cells calculate

Int. #:	2	Palm Avenue at 5th Street

Y

TOTAL CUMULATIVE PROJECTS TRAFFIC

Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	12	0	0	6	0	12	48	3	92	72	36
AM Out		3	6	50	36	12	12	0	25	0	0	50	0
AM Tot		3	18	50	36	18	12	12	73	3	92	122	36
PM In		0	14	0	0	9	0	14	111	4	67	36	41
PM Out		4	9	104	41	14	14	0	76	0	0	107	0
PM Tot		4	23	104	41	23	14	14	187	4	67	143	41

Zone #	1	Cumulative Projects 1, 2, 3, 5, and 26

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	130	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	154	0	0	0	0	0	0	0	0	0	0	0	0
PM In	232	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	215	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	2	Cumulative Projects 4, 6, 7, 8, and 9

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	179	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	171	0	0	0	0	0	0	0	0	0	0	0	0
PM In	265	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	250	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	3	Cumulative Projects 10 and 11

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											40%	
Y	0%	0%	0%	0%	0%	0%	0%	40%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	40%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	40%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	20	0	0	0	0	0	0	0	0	0	0	8	0
AM Out	24	0	0	0	0	0	0	0	10	0	0	0	0
PM In	43	0	0	0	0	0	0	0	0	0	0	17	0
PM Out	37	0	0	0	0	0	0	0	15	0	0	0	0

Zone #	4	Cumulative Projects 12 and 13

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											50%	
Y	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	98	0	0	0	0	0	0	0	0	0	0	49	0
AM Out	20	0	0	0	0	0	0	0	10	0	0	0	0
PM In	26	0	0	0	0	0	0	0	0	0	0	13	0
PM Out	92	0	0	0	0	0	0	0	46	0	0	0	0

Int. #:	2	Palm Avenue at 5th Street

Zone #	5	Cumulative Projects 14, 15, 16, 17, 18, 21, 22, 23, 24

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In								5%				
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	954	0	0	0	0	0	0	0	48	0	0	0	0
AM Out	1,000	0	0	0	0	0	0	0	0	0	0	50	0
PM In	2,210	0	0	0	0	0	0	0	111	0	0	0	0
PM Out	2,133	0	0	0	0	0	0	0	0	0	0	107	0

Zone #	6	Cumulative Projects 19 and 20

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In					10%				5%	50%		
Y	5%	10%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	10%	0%	0%	0%	5%	50%	0%	0%
PM Out	5%	10%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	64	0	0	0	0	6	0	0	0	3	32	0	0
AM Out	64	3	6	32	0	0	0	0	0	0	0	0	0
PM In	87	0	0	0	0	9	0	0	0	4	44	0	0
PM Out	87	4	9	44	0	0	0	0	0	0	0	0	0

Zone #	7	Cumulative Project 27

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In										40%	10%	
Y	0%	0%	40%	0%	0%	0%	0%	10%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	40%	10%	0%
PM Out	0%	0%	40%	0%	0%	0%	0%	10%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	151	0	0	0	0	0	0	0	0	0	60	15	0
AM Out	45	0	0	18	0	0	0	0	5	0	0	0	0
PM In	58	0	0	0	0	0	0	0	0	0	23	6	0
PM Out	150	0	0	60	0	0	0	0	15	0	0	0	0

Zone #	8	Cumulative Project 25

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		10%					10%					30%
Y	0%	0%	0%	30%	10%	10%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	10%	0%	0%	0%	0%	10%	0%	0%	0%	0%	30%
PM Out	0%	0%	0%	30%	10%	10%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	120	0	12	0	0	0	0	12	0	0	0	0	36
AM Out	120	0	0	0	36	12	12	0	0	0	0	0	0
PM In	138	0	14	0	0	0	0	14	0	0	0	0	41
PM Out	138	0	0	0	41	14	14	0	0	0	0	0	0

Enter only in blue cells	Yellow cells calculate

Int. #:	3	Palm Avenue at 3rd Street

Y

TOTAL CUMULATIVE PROJECTS TRAFFIC													
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	12	0	0	0	79	3	0	0	0	0	0
AM Out		0	0	0	0	12	3	37	0	0	0	0	0
AM Tot		0	12	0	0	12	82	40	0	0	0	0	0
PM In		0	14	0	0	0	49	4	0	0	0	0	0
PM Out		0	0	0	0	14	4	86	0	0	0	0	0
PM Tot		0	14	0	0	14	53	90	0	0	0	0	0

Zone #	1	Cumulative Projects 1, 2, 3, 5, and 26

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	130	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	154	0	0	0	0	0	0	0	0	0	0	0	0
PM In	232	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	215	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	2	Cumulative Projects 4, 6, 7, 8, and 9

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	179	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	171	0	0	0	0	0	0	0	0	0	0	0	0
PM In	265	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	250	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	3	Cumulative Projects 10 and 11

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	20	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	24	0	0	0	0	0	0	0	0	0	0	0	0
PM In	43	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	37	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	4	Cumulative Projects 12 and 13

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	98	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	20	0	0	0	0	0	0	0	0	0	0	0	0
PM In	26	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	92	0	0	0	0	0	0	0	0	0	0	0	0

Int. #:	3	Palm Avenue at 3rd Street

Zone #	5	Cumulative Projects 14, 15, 16, 17, 18, 21, 22, 23, 24

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	954	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	1,000	0	0	0	0	0	0	0	0	0	0	0	0
PM In	2,210	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	2,133	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	6	Cumulative Projects 19 and 20

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In						30%	5%					
Y	0%	0%	0%	0%	0%	5%	30%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	30%	5%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	5%	30%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	64	0	0	0	0	0	19	3	0	0	0	0	0
AM Out	64	0	0	0	0	0	3	19	0	0	0	0	0
PM In	87	0	0	0	0	0	26	4	0	0	0	0	0
PM Out	87	0	0	0	0	0	4	26	0	0	0	0	0

Zone #	7	Cumulative Project 27

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In						40%						
Y	0%	0%	0%	0%	0%	0%	40%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	40%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	40%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	151	0	0	0	0	0	60	0	0	0	0	0	0
AM Out	45	0	0	0	0	0	0	18	0	0	0	0	0
PM In	58	0	0	0	0	0	23	0	0	0	0	0	0
PM Out	150	0	0	0	0	0	0	60	0	0	0	0	0

Zone #	8	Cumulative Project 25

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		10%										
Y	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	120	0	12	0	0	0	0	0	0	0	0	0	0
AM Out	120	0	0	0	0	12	0	0	0	0	0	0	0
PM In	138	0	14	0	0	0	0	0	0	0	0	0	0
PM Out	138	0	0	0	0	14	0	0	0	0	0	0	0

Enter only in blue cells	Yellow cells calculate

Int. #:	4	Church Avenue at 5th Street

Y

TOTAL CUMULATIVE PROJECTS TRAFFIC

Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	0	0	0	48	0	0	201	9
AM Out		0	0	0	9	0	0	0	111	0	0	50	0
AM Tot		0	0	0	9	0	0	0	159	0	0	251	9
PM In		0	0	0	0	0	0	0	111	0	0	144	13
PM Out		0	0	0	13	0	0	0	221	0	0	107	0
PM Tot		0	0	0	13	0	0	0	332	0	0	251	13

Zone #	1	Cumulative Projects 1, 2, 3, 5, and 26

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	130	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	154	0	0	0	0	0	0	0	0	0	0	0	0
PM In	232	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	215	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	2	Cumulative Projects 4, 6, 7, 8, and 9

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												5%
Y	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%
PM Out	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	179	0	0	0	0	0	0	0	0	0	0	0	9
AM Out	171	0	0	0	9	0	0	0	0	0	0	0	0
PM In	265	0	0	0	0	0	0	0	0	0	0	0	13
PM Out	250	0	0	0	13	0	0	0	0	0	0	0	0

Zone #	3	Cumulative Projects 10 and 11

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											40%	
Y	0%	0%	0%	0%	0%	0%	0%	40%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	40%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	40%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	20	0	0	0	0	0	0	0	0	0	0	8	0
AM Out	24	0	0	0	0	0	0	0	10	0	0	0	0
PM In	43	0	0	0	0	0	0	0	0	0	0	17	0
PM Out	37	0	0	0	0	0	0	0	15	0	0	0	0

Zone #	4	Cumulative Projects 12 and 13

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											50%	
Y	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	98	0	0	0	0	0	0	0	0	0	0	49	0
AM Out	20	0	0	0	0	0	0	0	10	0	0	0	0
PM In	26	0	0	0	0	0	0	0	0	0	0	13	0
PM Out	92	0	0	0	0	0	0	0	46	0	0	0	0

Int. #:	4	Church Avenue at 5th Street

Zone #	5	Cumulative Projects 14, 15, 16, 17, 18, 21, 22, 23, 24

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In								5%				
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	954	0	0	0	0	0	0	0	48	0	0	0	0
AM Out	1,000	0	0	0	0	0	0	0	0	0	0	50	0
PM In	2,210	0	0	0	0	0	0	0	111	0	0	0	0
PM Out	2,133	0	0	0	0	0	0	0	0	0	0	107	0

Zone #	6	Cumulative Projects 19 and 20

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											50%	
Y	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	64	0	0	0	0	0	0	0	0	0	0	32	0
AM Out	64	0	0	0	0	0	0	0	32	0	0	0	0
PM In	87	0	0	0	0	0	0	0	0	0	0	44	0
PM Out	87	0	0	0	0	0	0	0	44	0	0	0	0

Zone #	7	Cumulative Project 27

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											50%	
Y	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	151	0	0	0	0	0	0	0	0	0	0	76	0
AM Out	45	0	0	0	0	0	0	0	23	0	0	0	0
PM In	58	0	0	0	0	0	0	0	0	0	0	29	0
PM Out	150	0	0	0	0	0	0	0	75	0	0	0	0

Zone #	8	Cumulative Project 25

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											30%	
Y	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	120	0	0	0	0	0	0	0	0	0	0	36	0
AM Out	120	0	0	0	0	0	0	0	36	0	0	0	0
PM In	138	0	0	0	0	0	0	0	0	0	0	41	0
PM Out	138	0	0	0	0	0	0	0	41	0	0	0	0

Enter only in blue cells	Yellow cells calculate

Int. #:	5	SR-210 EB Ramps at 5th Street

N

TOTAL CUMULATIVE PROJECTS TRAFFIC

Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	48	0	79	0	48	0	0	130	0
AM Out		0	0	0	0	0	0	0	68	52	50	50	0
AM Tot		0	0	0	48	0	79	0	116	52	50	180	0
PM In		0	0	0	111	0	57	0	111	0	0	101	0
PM Out		0	0	0	0	0	0	0	134	99	107	107	0
PM Tot		0	0	0	111	0	57	0	245	99	107	208	0

Zone #	1	Cumulative Projects 1, 2, 3, 5, and 26

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	130	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	154	0	0	0	0	0	0	0	0	0	0	0	0
PM In	232	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	215	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	2	Cumulative Projects 4, 6, 7, 8, and 9

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											5%	
N	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%
AM Out									5%			
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	179	0	0	0	0	0	0	0	0	0	0	9	0
AM Out	171	0	0	0	0	0	0	0	0	9	0	0	0
PM In	265	0	0	0	0	0	0	0	0	0	0	13	0
PM Out	250	0	0	0	0	0	0	0	0	13	0	0	0

Zone #	3	Cumulative Projects 10 and 11

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In						20%					20%	
N	0%	0%	0%	0%	0%	0%	0%	20%	20%	0%	0%	0%
AM Out								20%	20%			
PM In	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	20%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	20%	20%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	20	0	0	0	0	0	4	0	0	0	0	4	0
AM Out	24	0	0	0	0	0	0	0	5	5	0	0	0
PM In	43	0	0	0	0	0	9	0	0	0	0	9	0
PM Out	37	0	0	0	0	0	0	0	7	7	0	0	0

Zone #	4	Cumulative Projects 12 and 13

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In						20%					30%	
N	0%	0%	0%	0%	0%	0%	0%	30%	20%	0%	0%	0%
AM Out								30%	20%			
PM In	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	30%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	30%	20%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	98	0	0	0	0	0	20	0	0	0	0	29	0
AM Out	20	0	0	0	0	0	0	0	6	4	0	0	0
PM In	26	0	0	0	0	0	5	0	0	0	0	8	0
PM Out	92	0	0	0	0	0	0	0	28	18	0	0	0

Int. #:	5	SR-210 EB Ramps at 5th Street

Zone #	5	Cumulative Projects 14, 15, 16, 17, 18, 21, 22, 23, 24

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In				5%				5%				
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	5%	0%
AM Out										5%	5%	
PM In	0%	0%	0%	5%	0%	0%	0%	5%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	5%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	954	0	0	0	48	0	0	0	48	0	0	0	0
AM Out	1,000	0	0	0	0	0	0	0	0	0	50	50	0
PM In	2,210	0	0	0	111	0	0	0	111	0	0	0	0
PM Out	2,133	0	0	0	0	0	0	0	0	0	107	107	0

Zone #	6	Cumulative Projects 19 and 20

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In						20%					30%	
N	0%	0%	0%	0%	0%	0%	0%	30%	20%	0%	0%	0%
AM Out								30%	20%			
PM In	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	30%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	30%	20%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	64	0	0	0	0	0	13	0	0	0	0	19	0
AM Out	64	0	0	0	0	0	0	0	19	13	0	0	0
PM In	87	0	0	0	0	0	17	0	0	0	0	26	0
PM Out	87	0	0	0	0	0	0	0	26	17	0	0	0

Zone #	7	Cumulative Project 27

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In						20%					30%	
N	0%	0%	0%	0%	0%	0%	0%	30%	20%	0%	0%	0%
AM Out								30%	20%			
PM In	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	30%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	30%	20%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	151	0	0	0	0	0	30	0	0	0	0	45	0
AM Out	45	0	0	0	0	0	0	0	14	9	0	0	0
PM In	58	0	0	0	0	0	12	0	0	0	0	17	0
PM Out	150	0	0	0	0	0	0	0	45	30	0	0	0

Zone #	8	Cumulative Project 25

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In						10%					20%	
N	0%	0%	0%	0%	0%	0%	0%	20%	10%	0%	0%	0%
AM Out								20%	10%			
PM In	0%	0%	0%	0%	0%	10%	0%	0%	0%	0%	20%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	20%	10%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	120	0	0	0	0	0	12	0	0	0	0	24	0
AM Out	120	0	0	0	0	0	0	0	24	12	0	0	0
PM In	138	0	0	0	0	0	14	0	0	0	0	28	0
PM Out	138	0	0	0	0	0	0	0	28	14	0	0	0

Enter only in blue cells	Yellow cells calculate

Int. #:	D1	Palm Avenue at North Project Driveway

Y

TOTAL CUMULATIVE PROJECTS TRAFFIC

Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	18	0	0	0	0	0	0	0
AM Out		0	18	0	0	0	0	0	0	0	0	0	0
AM Tot		0	18	0	0	18	0	0	0	0	0	0	0
PM In		0	0	0	0	23	0	0	0	0	0	0	0
PM Out		0	23	0	0	0	0	0	0	0	0	0	0
PM Tot		0	23	0	0	23	0	0	0	0	0	0	0

Zone #	1	Cumulative Projects 1, 2, 3, 5, and 26

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	130	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	154	0	0	0	0	0	0	0	0	0	0	0	0
PM In	232	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	215	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	2	Cumulative Projects 4, 6, 7, 8, and 9

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	179	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	171	0	0	0	0	0	0	0	0	0	0	0	0
PM In	265	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	250	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	3	Cumulative Projects 10 and 11

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	20	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	24	0	0	0	0	0	0	0	0	0	0	0	0
PM In	43	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	37	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	4	Cumulative Projects 12 and 13

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	98	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	20	0	0	0	0	0	0	0	0	0	0	0	0
PM In	26	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	92	0	0	0	0	0	0	0	0	0	0	0	0

Int. #:	D1	Palm Avenue at North Project Driveway

Zone #	5	Cumulative Projects 14, 15, 16, 17, 18, 21, 22, 23, 24

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	954	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	1,000	0	0	0	0	0	0	0	0	0	0	0	0
PM In	2,210	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	2,133	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	6	Cumulative Projects 19 and 20

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In					10%							
Y	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	64	0	0	0	0	6	0	0	0	0	0	0	0
AM Out	64	0	6	0	0	0	0	0	0	0	0	0	0
PM In	87	0	0	0	0	9	0	0	0	0	0	0	0
PM Out	87	0	9	0	0	0	0	0	0	0	0	0	0

Zone #	7	Cumulative Project 27

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	151	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	45	0	0	0	0	0	0	0	0	0	0	0	0
PM In	58	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	150	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	8	Cumulative Project 25

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In					10%							
Y	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	120	0	0	0	0	12	0	0	0	0	0	0	0
AM Out	120	0	12	0	0	0	0	0	0	0	0	0	0
PM In	138	0	0	0	0	14	0	0	0	0	0	0	0
PM Out	138	0	14	0	0	0	0	0	0	0	0	0	0

Enter only in blue cells	Yellow cells calculate

Int. #:	D2	n Avenue at Meines Court/South Project Drive

Y

TOTAL CUMULATIVE PROJECTS TRAFFIC

Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	60	12	6	0	0	0	0	0	0	0
AM Out		0	6	0	0	0	0	0	0	0	60	0	12
AM Tot		0	6	60	12	6	0	0	0	0	60	0	12
PM In		0	0	69	14	9	0	0	0	0	0	0	0
PM Out		0	9	0	0	0	0	0	0	0	69	0	14
PM Tot		0	9	69	14	9	0	0	0	0	69	0	14

Zone #	1	Cumulative Projects 1, 2, 3, 5, and 26

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	130	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	154	0	0	0	0	0	0	0	0	0	0	0	0
PM In	232	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	215	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	2	Cumulative Projects 4, 6, 7, 8, and 9

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	179	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	171	0	0	0	0	0	0	0	0	0	0	0	0
PM In	265	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	250	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	3	Cumulative Projects 10 and 11

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	20	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	24	0	0	0	0	0	0	0	0	0	0	0	0
PM In	43	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	37	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	4	Cumulative Projects 12 and 13

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	98	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	20	0	0	0	0	0	0	0	0	0	0	0	0
PM In	26	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	92	0	0	0	0	0	0	0	0	0	0	0	0

Int. #:	D2	n Avenue at Meines Court/South Project Drive

Zone #	5	Cumulative Projects 14, 15, 16, 17, 18, 21, 22, 23, 24

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	954	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	1,000	0	0	0	0	0	0	0	0	0	0	0	0
PM In	2,210	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	2,133	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	6	Cumulative Projects 19 and 20

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In					10%							
Y	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	64	0	0	0	0	6	0	0	0	0	0	0	0
AM Out	64	0	6	0	0	0	0	0	0	0	0	0	0
PM In	87	0	0	0	0	9	0	0	0	0	0	0	0
PM Out	87	0	9	0	0	0	0	0	0	0	0	0	0

Zone #	7	Cumulative Project 27

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	151	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	45	0	0	0	0	0	0	0	0	0	0	0	0
PM In	58	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	150	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	8	Cumulative Project 25

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In			50%	10%								
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	10%
AM Out												
PM In	0%	0%	50%	10%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	10%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	120	0	0	60	12	0	0	0	0	0	0	0	0
AM Out	120	0	0	0	0	0	0	0	0	0	60	0	12
PM In	138	0	0	69	14	0	0	0	0	0	0	0	0
PM Out	138	0	0	0	0	0	0	0	0	0	69	0	14

Enter only in blue cells	Yellow cells calculate

Int. #:	D3	Meines Street at Project Driveway

Y

TOTAL CUMULATIVE PROJECTS TRAFFIC

Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	0	0	0	0	0	0	0	0
AM Out		0	0	0	0	0	0	0	0	0	0	0	0
AM Tot		0	0	0	0	0	0	0	0	0	0	0	0
PM In		0	0	0	0	0	0	0	0	0	0	0	0
PM Out		0	0	0	0	0	0	0	0	0	0	0	0
PM Tot		0	0	0	0	0	0	0	0	0	0	0	0

Zone #	1	Cumulative Projects 1, 2, 3, 5, and 26

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	130	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	154	0	0	0	0	0	0	0	0	0	0	0	0
PM In	232	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	215	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	2	Cumulative Projects 4, 6, 7, 8, and 9

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	179	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	171	0	0	0	0	0	0	0	0	0	0	0	0
PM In	265	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	250	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	3	Cumulative Projects 10 and 11

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	20	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	24	0	0	0	0	0	0	0	0	0	0	0	0
PM In	43	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	37	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	4	Cumulative Projects 12 and 13

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	98	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	20	0	0	0	0	0	0	0	0	0	0	0	0
PM In	26	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	92	0	0	0	0	0	0	0	0	0	0	0	0

Int. #:	D3	Meines Street at Project Driveway

Zone #	5	Cumulative Projects 14, 15, 16, 17, 18, 21, 22, 23, 24

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	954	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	1,000	0	0	0	0	0	0	0	0	0	0	0	0
PM In	2,210	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	2,133	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	6	Cumulative Projects 19 and 20

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	64	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	64	0	0	0	0	0	0	0	0	0	0	0	0
PM In	87	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	87	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	7	Cumulative Project 27

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	151	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	45	0	0	0	0	0	0	0	0	0	0	0	0
PM In	58	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	150	0	0	0	0	0	0	0	0	0	0	0	0

Zone #	8	Cumulative Project 25

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Y	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	120	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	120	0	0	0	0	0	0	0	0	0	0	0	0
PM In	138	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	138	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX G

INTERSECTION ANALYSIS WORKSHEETS – WITH IMPROVEMENTS

Option 1: Add 2nd NBL, 2nd SBL, 2nd EBL, and 2nd WBL Lanes. Add Dedicated WBR Lane with Overlap Phasing.

Number	2											
Intersection	Palm Avenue at 5th Street											
Control Type	Signalized											
Analysis Method	HCM 7th Edition											
Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Base Volume Input [veh/h]	37	171	270	143	664	82	11	230	70	407	649	104
Total Analysis Volume [veh/h]	45	211	89	209	765	106	30	337	81	555	859	203

Intersection Settings

Cycle Length [s]	120											
Coordination Type	Time of Day Pattern Coordinated											
Actuation Type	Semi-actuated											
Lost time [s]	0.00											
Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap
Signal Group	1	6	0	5	2	0	3	8	0	7	4	4
Auxiliary Signal Groups												4,5
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	10
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	30
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
Split [s]	10	26	0	19	35	0	9	30	0	45	66	66
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	5
Pedestrian Clearance [s]	0	17	0	0	17	0	0	21	0	0	17	17
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
l1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
Minimum Recall	No	No		No	No		No	No		No	No	No
Maximum Recall	No	No		No	No		No	No		No	No	No
Pedestrian Recall	No	No		No	No		No	No		No	No	No
Pedestrian Signal Group	0											
Pedestrian Walk [s]	0											
Pedestrian Clearance [s]	0											

Lane Group Calculations

g / C, Green / Cycle	0.03	0.43	0.43	0.10	0.50	0.50	0.03	0.14	0.14	0.19	0.31	0.45
(v / s)_i Volume / Saturation Flow Rate	0.01	0.09	0.09	0.06	0.25	0.25	0.01	0.12	0.12	0.17	0.25	0.13
so, Base Saturation Flow per Lane [pc/h/ln]	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Arrival type	3			3			3			3		
s, saturation flow rate [veh/h]	3329	1800	1625	3329	1800	1724	3329	1800	1682	3329	3427	1530
c, Capacity [veh/h]	109	769	694	345	897	859	88	258	241	640	1059	682
X, volume / capacity	0.41	0.20	0.21	0.61	0.50	0.50	0.34	0.83	0.85	0.87	0.81	0.30
d, Delay for Lane Group [s/veh]	59.42	22.10	22.29	53.17	22.01	22.10	59.61	56.75	58.08	50.68	39.77	21.48
Lane Group LOS	E	C	C	D	C	C	E	E	E	D	D	C

Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.71	2.86	2.72	3.09	8.65	8.31	0.48	6.72	6.49	8.34	11.78	3.69
50th-Percentile Queue Length [ft/ln]	17.69	71.60	67.97	77.27	216.14	207.71	11.88	168.11	162.32	208.47	294.61	92.34
95th-Percentile Queue Length [veh/ln]	1.27	5.16	4.89	5.56	13.47	13.04	0.86	10.98	10.67	13.07	17.41	6.65
95th-Percentile Queue Length [ft/ln]	31.84	128.88	122.34	139.09	336.69	325.88	21.38	274.43	266.80	326.87	435.36	166.21

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	59.42	22.15	22.29	53.17	22.05	22.10	59.61	57.23	58.08	50.68	39.77	21.48
Movement LOS	E	C	C	D	C	C	E	E	E	D	D	C
Critical Movement	No	No	No	No	No	No	Yes	No	No	No	No	No
d_A, Approach Delay [s/veh]	27.05			28.07			57.55			41.22		
Approach LOS	C			C			E			D		
d_I, Intersection Delay [s/veh]	37.85											
Intersection LOS	D											
Intersection V/C	0.549											

Option 1: Add 2nd NBL, 2nd SBL, 2nd EBL, and 2nd WBL Lanes. Add Dedicated WBR Lane with Overlap Phasing.

Number	2											
Intersection	Palm Avenue at 5th Street											
Control Type	Signalized											
Analysis Method	HCM 7th Edition											
Name	Palm Avenue			Palm Avenue			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Base Volume Input [veh/h]	100	651	611	199	283	33	79	800	69	213	282	152
Total Analysis Volume [veh/h]	115	744	196	296	352	56	105	1084	80	307	466	230

Intersection Settings

Cycle Length [s]	120											
Coordination Type	Time of Day Pattern Coordinated											
Actuation Type	Semi-actuated											
Lost time [s]	0.00											
Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap
Signal Group	1	6	0	5	2	0	3	8	0	7	4	4
Auxiliary Signal Groups												4,5
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	5	10	0	5	10	0	5	10	0	5	10	10
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	30
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
Split [s]	16	39	0	16	39	0	13	49	0	16	52	52
Walk [s]	0	5	0	0	5	0	0	5	0	0	5	5
Pedestrian Clearance [s]	0	21	0	0	17	0	0	24	0	0	17	17
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
l1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
Minimum Recall	No	No		No	No		No	No		No	No	No
Maximum Recall	No	No		No	No		No	No		No	No	No
Pedestrian Recall	No	No		No	No		No	No		No	No	No
Pedestrian Signal Group	0											
Pedestrian Walk [s]	0											
Pedestrian Clearance [s]	0											

Lane Group Calculations

g / C, Green / Cycle	0.05	0.32	0.32	0.10	0.37	0.37	0.05	0.35	0.35	0.10	0.40	0.53
(v / s)_i Volume / Saturation Flow Rate	0.03	0.27	0.27	0.09	0.12	0.12	0.03	0.33	0.33	0.09	0.14	0.15
so, Base Saturation Flow per Lane [pc/h/ln]	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Arrival type	3			3			3			3		
s, saturation flow rate [veh/h]	3329	1800	1672	3329	1800	1715	3329	1800	1757	3329	3427	1530
c, Capacity [veh/h]	172	573	532	333	660	629	158	627	612	333	1373	817
X, volume / capacity	0.67	0.85	0.85	0.89	0.32	0.32	0.66	0.94	0.94	0.92	0.34	0.28
d, Delay for Lane Group [s/veh]	60.26	52.85	53.83	61.41	28.48	28.56	60.91	57.05	57.79	64.16	25.08	15.52
Lane Group LOS	E	D	D	E	C	C	E	E	E	E	C	B

Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.82	15.58	14.62	4.78	4.52	4.34	1.67	19.81	19.51	5.08	4.63	3.46
50th-Percentile Queue Length [ft/ln]	45.43	389.44	365.62	119.44	113.11	108.49	41.72	495.32	487.74	126.90	115.84	86.56
95th-Percentile Queue Length [veh/ln]	3.27	22.05	20.90	8.36	8.01	7.76	3.00	27.11	26.75	8.77	8.16	6.23
95th-Percentile Queue Length [ft/ln]	81.77	551.26	522.42	209.06	200.33	193.91	75.10	677.81	668.83	219.28	204.09	155.82

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	60.26	53.19	53.83	61.41	28.51	28.56	60.91	57.39	57.79	64.16	25.08	15.52
Movement LOS	E	D	D	E	C	C	E	E	E	E	C	B
Critical Movement	No	No	No	No	No	No	No	No	No	Yes	No	No
d_A, Approach Delay [s/veh]	54.08			42.35			57.71			34.85		
Approach LOS	D			D			E			C		
d_I, Intersection Delay [s/veh]	48.39											
Intersection LOS	D											
Intersection V/C	0.780											

Option 1: Add 2nd SBL Lane

Number	5											
Intersection	SR-210 EB Ramps at 5th Street											
Control Type	Signalized											
Analysis Method	HCM 7th Edition											
Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Base Volume Input [veh/h]	0	0	0	137	8	135	0	363	436	852	1088	0
Total Analysis Volume [veh/h]	0	0	0	211	9	266	0	553	563	1030	1472	0

Intersection Settings

Cycle Length [s]	120											
Coordination Type	Time of Day Pattern Coordinated											
Actuation Type	Semi-actuated											
Lost time [s]	0.00											
Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	0	0	0	0	2	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	10	0	0	10	0	5	10	0
Maximum Green [s]	0	0	0	0	30	0	0	30	0	30	30	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	26	0	0	52	0	42	94	0
Walk [s]	0	0	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	7	0	0	7	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
l1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Pedestrian Signal Group	0											
Pedestrian Walk [s]	0											
Pedestrian Clearance [s]	0											

Lane Group Calculations

g / C, Green / Cycle		0.18	0.18	0.18	0.38	0.38	0.34	0.75
(v / s)_i Volume / Saturation Flow Rate		0.06	0.06	0.17	0.16	0.37	0.31	0.43
so, Base Saturation Flow per Lane [pc/h/ln]		1800	1800	1800	1800	1800	1800	1800
Arrival type	3	3			3		3	
s, saturation flow rate [veh/h]		1714	1721	1530	3427	1530	3329	3427
c, Capacity [veh/h]		314	316	281	1288	575	1134	2570
X, volume / capacity		0.35	0.35	0.95	0.43	0.98	0.91	0.57
d, Delay for Lane Group [s/veh]		43.42	43.41	73.95	28.91	69.62	40.91	7.51
Lane Group LOS		D	D	E	C	E	D	A

Critical Lane Group				No	No	Yes	No	Yes	Yes	No			
50th-Percentile Queue Length [veh/ln]				2.91	2.92	9.82	6.10	21.19	14.72	7.36			
50th-Percentile Queue Length [ft/ln]				72.82	73.10	245.60	152.47	529.73	368.09	184.08			
95th-Percentile Queue Length [veh/ln]				5.24	5.26	14.96	10.15	28.74	21.02	11.81			
95th-Percentile Queue Length [ft/ln]				131.07	131.57	374.10	253.72	718.46	525.41	295.34			

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	43.42	43.41	73.95	0.00	28.91	69.62	40.91	7.51	0.00	
Movement LOS				D	D	E		C	E	D	A		
Critical Movement				No	No	Yes		No	No	No	No		
d_A, Approach Delay [s/veh]	0.00			60.13			49.45			21.26			
Approach LOS	A			E			D			C			
d_I, Intersection Delay [s/veh]	33.53												
Intersection LOS	C												
Intersection V/C	0.851												

Option 1: Add 2nd SBL Lane

Number	5											
Intersection	SR-210 EB Ramps at 5th Street											
Control Type	Signalized											
Analysis Method	HCM 7th Edition											
Name	SR-210 EB Ramps			SR-210 EB Ramps			5th Street			5th Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Base Volume Input [veh/h]	0	0	0	355	7	133	0	1066	560	319	546	0
Total Analysis Volume [veh/h]	0	0	0	519	8	221	0	1487	757	474	850	0

Intersection Settings

Cycle Length [s]	120											
Coordination Type	Time of Day Pattern Coordinated											
Actuation Type	Semi-actuated											
Lost time [s]	0.00											
Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Protecte	Permiss	Permiss
Signal Group	0	0	0	0	2	0	0	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	Lead	-	-
Minimum Green [s]	0	0	0	0	10	0	0	10	0	5	10	0
Maximum Green [s]	0	0	0	0	30	0	0	30	0	30	30	0
Amber [s]	0.0	0.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0
All red [s]	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
Split [s]	0	0	0	0	27	0	0	73	0	20	93	0
Walk [s]	0	0	0	0	5	0	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	0	0	10	0	0	7	0	0	7	0
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
l1, Start-Up Lost Time [s]	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall					No			No		No	No	
Maximum Recall					No			No		No	No	
Pedestrian Recall					No			No		No	No	
Pedestrian Signal Group	0											
Pedestrian Walk [s]	0											
Pedestrian Clearance [s]	0											

Lane Group Calculations

g / C, Green / Cycle		0.17	0.17	0.17	0.56	0.56	0.17	0.76
(v / s)_i Volume / Saturation Flow Rate		0.15	0.15	0.14	0.43	0.49	0.14	0.25
so, Base Saturation Flow per Lane [pc/h/ln]		1800	1800	1800	1800	1800	1800	1800
Arrival type	3	3			3		3	
s, saturation flow rate [veh/h]		1714	1717	1530	3427	1530	3329	3427
c, Capacity [veh/h]		297	298	265	1924	859	550	2604
X, volume / capacity		0.89	0.89	0.83	0.77	0.88	0.86	0.33
d, Delay for Lane Group [s/veh]		61.03	60.97	56.42	23.49	35.47	52.89	4.94
Lane Group LOS		E	E	E	C	D	D	A

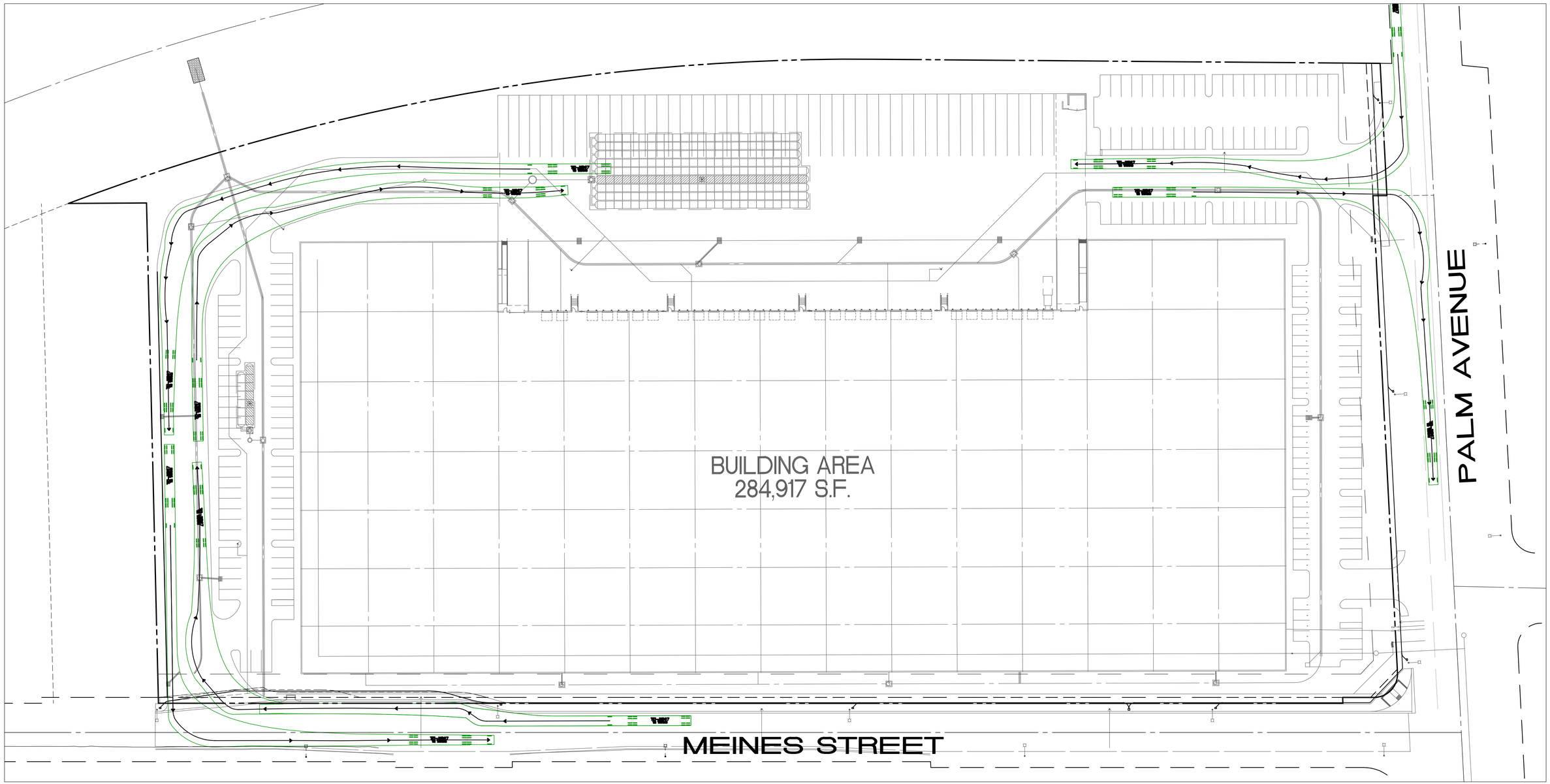
Critical Lane Group		Yes	No	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		8.72	8.72	7.00	16.26	20.62	7.20	3.01
50th-Percentile Queue Length [ft/ln]		218.00	218.11	175.07	406.60	515.50	180.03	75.22
95th-Percentile Queue Length [veh/ln]		13.56	13.57	11.34	22.88	28.07	11.60	5.42
95th-Percentile Queue Length [ft/ln]		339.07	339.21	283.56	571.94	701.68	290.06	135.40

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	0.00	0.00	61.00	60.97	56.42	0.00	23.49	35.47	52.89	4.94	0.00
Movement LOS				E	E	E		C	D	D	A	
Critical Movement				Yes	No	No		No	No	No	No	
d_A, Approach Delay [s/veh]	0.00			59.65			27.53			22.11		
Approach LOS	A			E			C			C		
d_I, Intersection Delay [s/veh]	31.43											
Intersection LOS	C											
Intersection V/C	0.791											

APPENDIX H

TRUCK TURNING DIAGRAMS



Last Update: 4/28/23
O:\4100-4199\4110\4110CGP07-Truck Turn.dwg

0 20 40 80 120

SCALE: 1"=40'

CITY OF HIGHLAND
PUBLIC WORKS DEPARTMENT

TRUCK TURN EXHIBIT

27820 MEINES STREET INDUSTRIAL DEVELOPMENT

4110/1 OF 1 SHEETS

PREPARED FOR:

LOVETT INDUSTRIAL
1730 E HOLLY AVENUE
EL SEGUNDO, CA 90245
PHONE: (949) 402-2760

PREPARED BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

Public Works Director R.C.E. XXXXX

Sheet 1 of 1 Sheets