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# **Chino Parcel Delivery**

## **AIR QUALITY IMPACT ANALYSIS**

### **CITY OF CHINO**

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MAY 11, 2018



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## **LIST OF ABBREVIATED TERMS**

(1)	Reference
µg/m <sup>3</sup>	Microgram per Cubic Meter
AADT	Annual Average Daily Trips
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
BACMs	Best Available Control Measures
BMPs	Best Management Practices
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CO	Carbon Monoxide
DPM	Diesel Particulate Matter
EPA	Environmental Protection Agency
LST	Localized Significance Threshold
MMs	Mitigation Measures
NAAQS	National Ambient Air Quality Standards
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Oxides of Nitrogen
Pb	Lead
PM <sub>10</sub>	Particulate Matter 10 microns in diameter or less
PM <sub>2.5</sub>	Particulate Matter 2.5 microns in diameter or less
PPM	Parts Per Million
Project	Chino Parcel Delivery
ROG	Reactive Organic Gases
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SIPs	State Implementation Plans
SRA	Source Receptor Area

TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis
TOG	Total Organic Gases
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds

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## EXECUTIVE SUMMARY

### **CONSTRUCTION-SOURCE EMISSIONS**

#### *REGIONAL IMPACTS*

For regional emissions, the Project would not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutants. Therefore, a less than significant impact would occur for Project-related construction-source emissions.

#### *LOCALIZED IMPACTS*

For localized emissions, the Project would not exceed the SCAQMD's localized significance threshold for any criteria pollutant. Therefore, a less than significant impact would occur.

#### *ODORS*

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less-than-significant.

### **OPERATIONAL-SOURCE EMISSIONS**

#### *REGIONAL IMPACTS*

For regional emissions, the Project would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NO<sub>x</sub>. No feasible mitigation measures exist that would reduce these emissions to levels that are less-than-significant. Project operational-source NO<sub>x</sub> emissions exceedances of applicable SCAQMD regional thresholds are therefore considered significant and unavoidable.

#### *LOCALIZED IMPACTS*

For localized emissions, the Project would not exceed the numerical thresholds established by the SCAQMD for any criteria pollutants. The proposed Project would not result in a significant CO "hotspot" as a result of Project related traffic during ongoing operations.

Project operational-source emissions would have the potential to conflict with the applicable AQMP.

#### *ODORS*

Substantial odor-generating sources include land uses such as agricultural activities, feedlots, wastewater treatment facilities, landfills or various heavy industrial uses. The Project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential sources of operational odors generated by the Project would include

disposal of miscellaneous refuse. Moreover, SCAQMD Rule 402 acts to prevent occurrences of odor nuisances (1). Consistent with City requirements, all Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with solid waste regulations. Potential operational-source odor impacts are therefore considered less-than-significant.

# **1 INTRODUCTION**

This report presents the results of the air quality impact analysis (AQIA) prepared by Urban Crossroads, Inc., for the proposed Chino Parcel Delivery ("Project"). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the proposed Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the South Coast Air Quality Management District (SCAQMD).

## **1.1 SITE LOCATION**

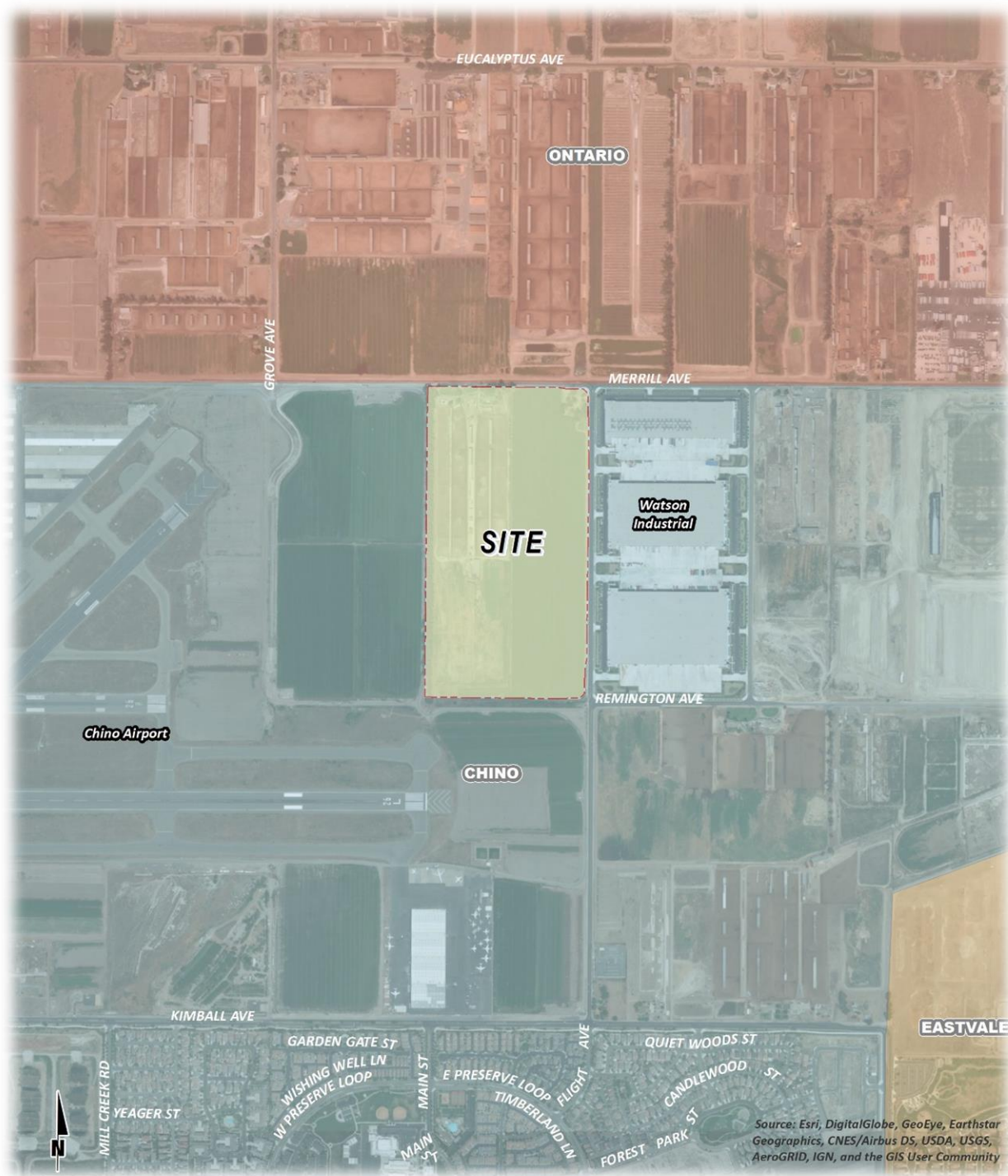
The proposed Chino Parcel Delivery Project is located on the southwest corner of Flight Avenue and Merrill Avenue in the City of Chino, as shown on Exhibit 1-A. Interstate 15 (I-15) is located approximately four miles east of the Project site, and Chino Airport is located immediately west of the Project site. Existing land uses in the Project study area include existing agricultural uses north and southeast of the Project site; and the Watson Industrial Park east across Flight Avenue.

## **1.2 PROJECT DESCRIPTION**

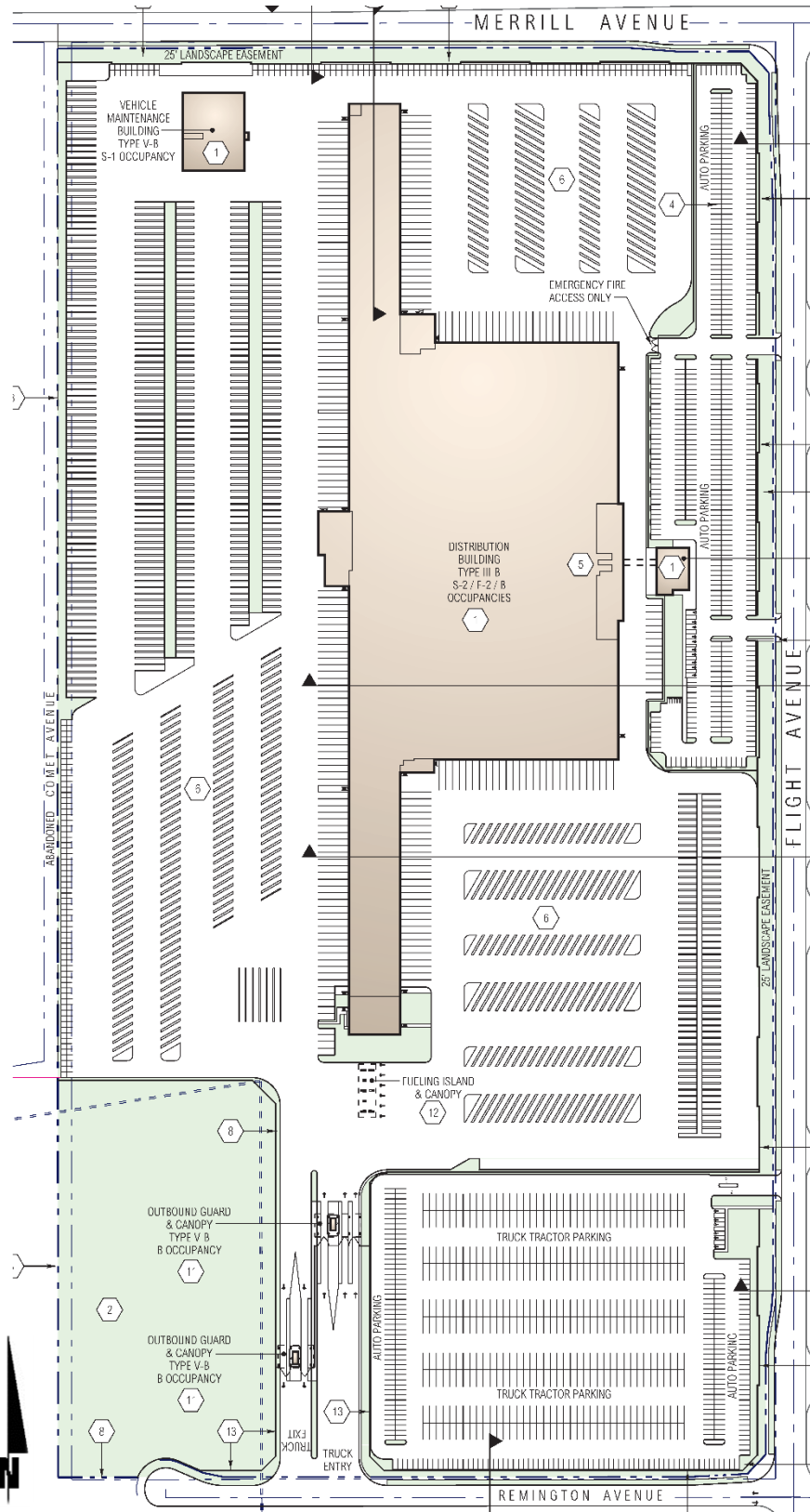
The total Project development is proposed to consist of a parcel delivery facility within a single building with up to 476,285 square feet of building space and 26,529 square feet of ancillary building space that will support on-site operations, as shown on Exhibit 1-B. The Project is anticipated to be developed in a single phase with a projected Project Opening Year of 2020.

Per the Chino Parcel Delivery Traffic Impact Analysis prepared by Urban Crossroads, Inc. the Project is expected to generate a net total of approximately 3,905 trip-ends per day (actual vehicles) for the parcel delivery use (2). It should be noted that the 26,529 square feet of ancillary building space would not generate any additional traffic. The Project trip generation includes 1,263 truck trip-ends per day from the proposed Project site.

# EXHIBIT 1-A: LOCATION MAP



**EXHIBIT 1-B: SITE PLAN**



### 1.3 CONSTRUCTION-SOURCE AIR POLLUTANT EMISSIONS MITIGATION MEASURES

#### 1.3.1 MONITORING OF AND COMPLIANCE WITH STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES (BACMs)

SCAQMD Rules that are currently applicable during construction activity for this Project include but are not limited to: Rule 1113 (Architectural Coatings) (3); Rule 431.2 (Low Sulfur Fuel) (4); Rule 403 (Fugitive Dust) (5); and Rule 1186 / 1186.1 (Street Sweepers) (6). In order to facilitate monitoring and compliance with SCAQMD Rule 403 (Fugitive Dust) and Rule 1113 (Architectural Coatings) applicable provisions of these Rules are restated at MM AQ-1 and MM AQ-2.

##### **BACM AQ-1**

- The following measures shall be incorporated into Project plans and specifications as implementation of Rule 403.
- All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.
- The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered, with complete coverage of disturbed areas, at least three (3) times daily during dry weather; preferably in the mid-morning, afternoon, and after work is done for the day.
- The contractor shall ensure that traffic speeds on unpaved roads and Project site areas are reduced to 15 miles per hour or less
- Only “Low-Volatile Organic Compounds” paints (no more than 50 gram/liter of VOC) and/or High Pressure Low Volume (HPLV) applications consistent with South Coast Air Quality Management District Rule 1113 shall be used.

##### **BACM AQ-2**

Plans, specifications, and contract documents shall note that a sign shall be posted on-site stating that construction workers shall not idle diesel engines in excess of five (5) minutes (7).

### 1.4 OPERATIONAL-SOURCE EMISSIONS MITIGATION MEASURES

No feasible mitigation measures exist that would reduce these emissions to levels that are less-than-significant. Project operational-source NO<sub>x</sub> emissions exceedances of applicable SCAQMD regional thresholds are therefore considered significant and unavoidable. Moreover, more than 94 percent of all operational-source emissions (by weight) would be generated by Project mobile sources (traffic). Neither the Project Applicant nor the Lead Agency (City of Chino) can substantively or materially affect reductions in Project mobile-source emissions beyond the regulatory requirements, and mitigation measures identified herein. As such the following mitigation measures will reduce impacts to the maximum extent feasible. Notwithstanding, as a conservative measure, no “credit” has been taken for implementation of the following mitigation measures.

**MM AQ-1**

Pursuant to MM GHG-1, the Project will be required to exceed the mandatory California Energy Code Title 24, Part 6 standards, in effect at the time of the development application for discretionary review by 3 percent. This would also reduce emissions associated with the building envelope.

**MM AQ-2**

To reduce water consumption and the associated energy-usage, the Project will be designed to comply with the mandatory reductions in indoor water usage contained in the incumbent CalGreen Code (8) and any mandated reduction in outdoor water usage contained in the City's water efficient landscape requirements. Additionally, the Project shall implement the following:

- Landscaping palette emphasizing drought tolerant plants;
- Use of water-efficient irrigation techniques;
- U.S. EPA Certified WaterSense labeled or equivalent faucets, high-efficiency toilets (HETs), and water-conserving shower heads.

**MM AQ-3**

The truck access gates and loading docks within the truck court on the Project site shall be posted with signs which state:

- a) Truck drivers shall turn off engines when not in use;
- b) Diesel delivery trucks servicing the Project shall not idle for more than five (5) minutes<sup>[1]</sup>; and
- c) Telephone numbers of the building facilities manager and the CARB to report violations.

**MM AQ-4**

The project Applicant shall make its tenants aware of the funding opportunities, such as Carl Moyer, and other similar funding opportunities, by providing applicable literature on such funding opportunities as available from the CARB.

**MM AQ-5**

The project shall be designed to incorporate electric vehicle charging stations and carpool parking spaces for employees.

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<sup>[1]</sup> While restricted idling is required per MM AQ-3, the analysis presented here takes no quantified credit or reduction in emissions for restricted idling, and reflects an assumed 15-minute "worst case" idling condition.

## 1.5 EVALUATION OF APPLICABILITY OF SCAQMD-RECOMMENDED MITIGATION MEASURES

The South Coast Air Quality Management District (SCAQMD) provided a comment letter on the Notice of Preparation of a CEQA document for the Project. The SCAQMD's comment letter includes a reference to several sources to consider for purposes of mitigating significant air quality impacts. The following table evaluates the applicability of the SCAQMD's recommended measures.

**TABLE 1-1: APPLICABILITY OF SCAQMD-RECOMMENDED MITIGATION MEASURES**

<b>Mitigation Measure</b>	<b>Applicability</b>
Chapter 11 of the SCAQMD <i>CEQA Air Quality Handbook</i> (Construction)	The applicable mitigation measures listed in Chapter 11 (Tables 11-2, 11-3, and 11-4) of the SCAQMD <i>CEQA Air Quality Handbook</i> have been reviewed. However, no additional mitigation measures are necessary since Project-related construction emissions (regional and localized) would not exceed the applicable SCAQMD thresholds with application of BACMs.
Chapter 11 of the SCAQMD <i>CEQA Air Quality Handbook</i> (Operations)	<p>The applicable mitigation measures listed in Chapter 11 (Tables 11-6c and 11-7c) of the SCAQMD <i>CEQA Air Quality Handbook</i> have been reviewed. Mitigation measures recommended for the Project are generally consistent with measures recommended by SCAQMD.</p> <p>However, none of the additional mitigation measures beyond those identified above would reduce the significant NO<sub>x</sub> impact to less than significant levels. It should be noted the SCAQMD <i>CEQA Air Quality Handbook</i> has not been updated since 2003.</p> <p>Additionally, several of the measures listed provide a negligible NO<sub>x</sub> reduction with a number designated by SCAQMD as having no quantified benefit or negligible benefit. Therefore, implementation of these measures would not avoid or substantially lessen mobile source NO<sub>x</sub> emissions attributable to the project.</p>



SCAQMD CEQA Web Pages (Fugitive Dust)	With application of BACMs, the Project would not have a significant impact for construction related PM10 or PM2.5 emissions. Therefore, no additional mitigation measures are required to reduce fugitive dust emissions.
SCAQMD CEQA Web Pages (Harbor Craft, Locomotives, Ocean Going Vessels)	The following mitigation measures are not applicable to the proposed Project. It is not expected that the Project would include the use of a harbor craft, locomotives, or ocean-going vessels.
SCAQMD CEQA Web Pages (Off-Road Engines)	Mitigation measures that would apply to off-road engines have been reviewed. Notwithstanding, implementation of these measures would not avoid or substantially lessen mobile source NOx emissions attributable to the project.
SCAQMD CEQA Web Pages (On-Road Engines)	<p>The California Air Resources Board (CARB) has worked closely with the U.S. Environmental Protection Agency (U.S. EPA), engine and vehicle manufacturers, and other interested parties to reduce emissions from heavy-duty diesel vehicles in California, through a combination of measures including regulations requiring the use of ultra-low sulfur diesel fuel, new emission standards, restrictions on idling, addition of post-combustion filter and catalyst equipment, and retrofits for diesel truck fleets. These programs are expected to result in significant reductions in particulate matter (PM), nitrous oxides (NOX), volatile organic compounds (VOC), and carbon oxide (CO) emissions as they are fully implemented.</p> <p>Under the Truck and Bus Regulation, adopted by CARB in 2008, all diesel truck fleets operating in California are required to adhere to an aggressive schedule for upgrading and replacing heavy-duty truck engines. Pursuant to such regulation, older, heavier trucks, i.e., those with pre-2000-year engines and a gross vehicle weight rating (GVWR) greater than 26,000 pounds are already required to have installed a PM filter and must be replaced with a 2010 engine between 2015 and 2020, depending on the model year. By 2015, all heavier pre-1994</p>

	<p>trucks must be upgraded to 2010 engines and newer trucks are thereafter required to be replaced over the next eight years. Older, more polluting trucks are required to be replaced first, while trucks that already have relatively clean 2007-2009 engines are not required to be replaced until 2023. Lighter trucks (those with a GVWR of 14,001 to 26,000 pounds) must adhere to a similar schedule and will all be replaced by 2020.</p> <p>Further, nearly all trucks that are not required under the Truck and Bus Regulation to be replaced by 2015 are required to be upgraded with a PM filter by that date. Therefore, most heavy-duty trucks entering the project site will meet or exceed U.S. EPA 2007 and 2010 emission standards within a relatively short period of time after the project becomes operational in 2020, and all such trucks entering the property will meet or exceed such standards by 2023.</p> <p>Federal and state agencies regulate and enforce vehicle emission standards. It is not feasible for the City of Chino staff to effectively enforce a prohibition on trucks from entering the property that are otherwise permitted to operate in California and access other properties in the city, region, and state. And, even if the City were to apply such a restriction, it would merely cause warehouse operators using truck fleets older than 2007/2010 to locate in another location in the South Coast Air Basin where the restriction does not apply, thereby resulting in no improvement to regional air quality. Further if a truck that did not meet this requirement were to attempt access to the site and be denied, there would be more idling emissions and travel emissions associated with that truck.</p>
CAPCOA's <i>Quantifying Greenhouse Gas Mitigation Measures</i>	<p>All feasible and applicable mitigation measures listed in the Energy, Water, and Transportation sections (as shown in Chart 6-1 and Chart 6-2 of the CAPCOA document) have been applied to the analysis. However, these measures are aimed at reducing GHG emissions and implementation of these measures would not avoid or substantially lessen mobile source NOx emissions attributable to the project.</p>

SCAQMD Rule 403	As identified in BACM AQ-1 the Project would need to comply with applicable SCAQMD Rules including, but not limited to Rule 403.
SCAQMD's Guidance Document for addressing Air Quality Issues in General Plans and Local Planning	These measures are not applicable to the proposed Project because the measures listed are aimed towards local governments as a guidance to reduce community exposure to source-specific air pollution impacts at the General Plan level.

## 2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

### 2.1 SOUTH COAST AIR BASIN

The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD (9). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As discussed above, the Project site is located within the South Coast Air Basin, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County. The larger South Coast district boundary includes 10,743 square miles.

The SCAB is bound by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Los Angeles County portion of the Mojave Desert Air Basin is bound by the San Gabriel Mountains to the south and west, the Los Angeles / Kern County border to the north, and the Los Angeles / San Bernardino County border to the east. The Riverside County portion of the Salton Sea Air Basin is bound by the San Jacinto Mountains in the west and spans eastward up to the Palo Verde Valley.

### 2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s (degrees Fahrenheit). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide to sulfates is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71 percent along the coast and 59 percent inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90 percent of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14 1/2 hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter, when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as NOX and CO from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

## **2.3 WIND PATTERNS AND PROJECT LOCATION**

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The Basin is located in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly on-shore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

## **2.4 EXISTING AIR QUALITY**

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated and in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect, as well health effects of each pollutant regulated under these standards are shown in Table 2-1 (10) (11).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards presented in Table 2-1. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O<sub>3</sub>, CO, SO<sub>2</sub>, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> are not equaled or exceeded at any time in any consecutive three-year period; and the federal standards (other than O<sub>3</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and those based on annual averages or arithmetic mean) are not exceeded more than once per year. The O<sub>3</sub> standard is attained when the fourth highest eight-hour concentration in a year, averaged over three years, is equal to or less than the standard. For PM<sub>10</sub>, the 24 hour standard is attained when 99 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.

TABLE 2-1: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards						
Pollutant	Averaging Time	California Standards <sup>1</sup>		National Standards <sup>2</sup>		
		Concentration <sup>3</sup>	Method <sup>4</sup>	Primary <sup>3,5</sup>	Secondary <sup>3,6</sup>	Method <sup>7</sup>
Ozone (O <sub>3</sub> ) <sup>8</sup>	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m <sup>3</sup> )		0.070 ppm (137 µg/m <sup>3</sup> )		
Respirable Particulate Matter (PM10) <sup>9</sup>	24 Hour	50 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	150 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m <sup>3</sup>		—		
Fine Particulate Matter (PM2.5) <sup>9</sup>	24 Hour	—	—	35 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	12.0 µg/m <sup>3</sup>	15 µg/m <sup>3</sup>	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m <sup>3</sup> )	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m <sup>3</sup> )	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m <sup>3</sup> )		9 ppm (10 mg/m <sup>3</sup> )	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m <sup>3</sup> )		—	—	
Nitrogen Dioxide (NO <sub>2</sub> ) <sup>10</sup>	1 Hour	0.18 ppm (339 µg/m <sup>3</sup> )	Gas Phase Chemiluminescence	100 ppb (188 µg/m <sup>3</sup> )	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m <sup>3</sup> )		0.053 ppm (100 µg/m <sup>3</sup> )	Same as Primary Standard	
Sulfur Dioxide (SO <sub>2</sub> ) <sup>11</sup>	1 Hour	0.25 ppm (655 µg/m <sup>3</sup> )	Ultraviolet Fluorescence	75 ppb (196 µg/m <sup>3</sup> )	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m <sup>3</sup> )	
	24 Hour	0.04 ppm (105 µg/m <sup>3</sup> )		0.14 ppm (for certain areas) <sup>11</sup>	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) <sup>11</sup>	—	
Lead <sup>12,13</sup>	30 Day Average	1.5 µg/m <sup>3</sup>	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m <sup>3</sup> (for certain areas) <sup>12</sup>	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m <sup>3</sup>		
Visibility Reducing Particles <sup>14</sup>	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m <sup>3</sup>	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m <sup>3</sup> )	Ultraviolet Fluorescence			
Vinyl Chloride <sup>12</sup>	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	Gas Chromatography			

See footnotes on next page ...

See footnotes on next page ...

For more information please call ARB-PIO at (916) 322-2990

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**TABLE 2-1: AMBIENT AIR QUALITY STANDARDS (2 OF 2)**

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above  $150 \mu\text{g}/\text{m}^3$  is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of  $25^\circ\text{C}$  and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of  $25^\circ\text{C}$  and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from  $15 \mu\text{g}/\text{m}^3$  to  $12.0 \mu\text{g}/\text{m}^3$ . The existing national 24-hour PM2.5 standards (primary and secondary) were retained at  $35 \mu\text{g}/\text{m}^3$ , as was the annual secondary standard of  $15 \mu\text{g}/\text{m}^3$ . The existing 24-hour PM10 standards (primary and secondary) of  $150 \mu\text{g}/\text{m}^3$  also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour  $\text{SO}_2$  standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971  $\text{SO}_2$  national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.  
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard ( $1.5 \mu\text{g}/\text{m}^3$  as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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## 2.5 REGIONAL AIR QUALITY

The SCAQMD monitors levels of various criteria pollutants at 38 permanent monitoring stations and 5 single-pollutant source Lead (Pb) air monitoring sites throughout the air district (12). In 2015, the federal and state ambient air quality standards (NAAQS and CAAQS) were exceeded on one or more days for ozone, PM<sub>10</sub>, and PM<sub>2.5</sub> at most monitoring locations (13). No areas of the SCAB exceeded federal or state standards for NO<sub>2</sub>, SO<sub>2</sub>, CO, sulfates or lead. See Table 2-2, for attainment designations for the SCAB (14) (15). Appendix 3.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

**TABLE 2-2: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SOUTH COAST AIR BASIN (SCAB)**

Criteria Pollutant	State Designation	Federal Designation
Ozone - 1hour standard	Nonattainment	Nonattainment ("extreme")
Ozone - 8 hour standard	Nonattainment	Nonattainment ("extreme")
PM <sub>10</sub>	Nonattainment	Attainment (Maintenance)
PM <sub>2.5</sub>	Nonattainment	Nonattainment ("serious")
Carbon Monoxide	Attainment	Attainment (Maintenance)
Nitrogen Dioxide	Attainment	Unclassifiable/Attainment
Sulfur Dioxide	Attainment	Unclassifiable/Attainment
Lead <sup>1</sup>	Attainment	Nonattainment (Partial)

Source: State/Federal designations were taken from <http://www.arb.ca.gov/design/adm/adm.htm>

Note: See Appendix 3.2 for a detailed map of State/National Area Designations within the South Coast Air Basin

## 2.6 LOCAL AIR QUALITY

Relative to the Project site, the nearest long-term air quality monitoring site for Inhalable Particulates (PM<sub>10</sub>) and Ultra-Fine Particulates (PM<sub>2.5</sub>) is the South Coast Air Quality Management District Southwest San Bernardino Valley monitoring station, located approximately 5.32 miles north of the Project site in Ontario (SRA 33). Relative to the Project site, the nearest long-term air quality monitoring site for Ozone (O<sub>3</sub>), Carbon Monoxide (CO), and Nitrogen Dioxide (NO<sub>2</sub>) is the South Coast Air Quality Management District Northwest San Bernardino Valley monitoring station, located approximately 10 miles north of the Project site in Upland (SRA 32) (16). It should be noted that the Northwest San Bernardino Valley monitoring station was utilized in lieu of the Southwest San Bernardino Valley monitoring station only in instances where data was not available from the Southwest San Bernardino Valley site.

The most recent three (3) years of data available is shown on Table 2-3 and identifies the number of days ambient air quality standards were exceeded for the study area, which is was considered to be representative of the local air quality at the Project site (17) (18). Additionally, data for SO<sub>2</sub>

<sup>1</sup> The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

has been omitted as attainment is regularly met in the South Coast Air Basin and few monitoring stations measure SO<sub>2</sub> concentrations.

**TABLE 2-3: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2014-2016**

POLLUTANT	STANDARD	YEAR		
		2014	2015	2016
Ozone (O <sub>3</sub> )				
Maximum 1-Hour Concentration (ppm)		0.126	0.136	0.156
Maximum 8-Hour Concentration (ppm)		0.101	0.106	0.116
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	34	49	53
Number of Days Exceeding State 8-Hour Standard	> 0.07 ppm	60	69	89
Number of Days Exceeding Federal 1-Hour Standard	> 0.12 ppm	1	2	10
Number of Days Exceeding Federal 8-Hour Standard	> 0.075 ppm	42	53	88
Number of Days Exceeding Health Advisory	≥ 0.15 ppm	--	--	--
Carbon Monoxide (CO)				
Maximum 1-Hour Concentration (ppm)		3.0	2.1	1.7
Maximum 8-Hour Concentration (ppm)		1.2	1.3	1.3
Nitrogen Dioxide (NO <sub>2</sub> )				
Maximum 1-Hour Concentration (ppm)		0.074	0.072	0.060
Annual Arithmetic Mean Concentration (ppm)		0.017	0.016	0.017
Number of Days Exceeding State 1-Hour Standard	> 0.18 ppm	0	0	0
Particulate Matter ≤ 10 Microns (PM <sub>10</sub> )				
Maximum 24-Hour Concentration (µg/m3)		67	--	--
Number of Samples		--	--	--
Number of Samples Exceeding State Standard	> 50 µg/m <sup>3</sup>	3	--	--
Number of Samples Exceeding Federal Standard	> 150 µg/m <sup>3</sup>	0	--	--
Particulate Matter ≤ 2.5 Microns (PM <sub>2.5</sub> )				
Maximum 24-Hour Concentration (µg/m <sup>3</sup> )		38.4	52.7	44.14
Annual Arithmetic Mean (µg/m <sup>3</sup> )		--	14.5	14.7
Number of Samples Exceeding Federal 24-Hour Standard	> 35 µg/m <sup>3</sup>	1	10	6

-- = data not available from SCAQMD or ARB;

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and effects are identified below:

- Carbon Monoxide (CO): Is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone,

motor vehicles operating at slow speeds are the primary source of CO in the Basin. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.

- **Sulfur Dioxide (SO<sub>2</sub>):** Is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO<sub>2</sub> oxidizes in the atmosphere, it forms sulfates (SO<sub>4</sub>). Collectively, these pollutants are referred to as sulfur oxides (SOX).
- **Nitrogen Oxides (Oxides of Nitrogen, or NO<sub>x</sub>):** Nitrogen oxides (NO<sub>x</sub>) consist of nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>) and nitrous oxide (N<sub>2</sub>O) and are formed when nitrogen (N<sub>2</sub>) combines with oxygen (O<sub>2</sub>). Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. Nitrogen oxides are typically created during combustion processes, and are major contributors to smog formation and acid deposition. NO<sub>2</sub> is a criteria air pollutant, and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO<sub>2</sub> is the most abundant in the atmosphere. As ambient concentrations of NO<sub>2</sub> are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO<sub>2</sub> than those indicated by regional monitors.
- **Ozone (O<sub>3</sub>):** Is a highly reactive and unstable gas that is formed when volatile organic compounds (VOCs) and nitrogen oxides (NO<sub>x</sub>), both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. Ozone concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.
- **PM<sub>10</sub> (Particulate Matter less than 10 microns):** A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. PM<sub>10</sub> also causes visibility reduction and is a criteria air pollutant.
- **PM<sub>2.5</sub> (Particulate Matter less than 2.5 microns):** A similar air pollutant consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include sulfates formed from SO<sub>2</sub> release from power plants and industrial facilities and nitrates that are formed from NO<sub>x</sub> release from power plants, automobiles and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. PM<sub>2.5</sub> is a criteria air pollutant.
- **Volatile Organic Compounds (VOC):** Volatile organic compounds are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form ozone to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include: carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O<sub>3</sub>, which is a criteria pollutant. The SCAQMD uses the terms VOC and ROG (see below) interchangeably.

- **Reactive Organic Gases (ROG):** Similar to VOC, Reactive Organic Gases (ROG) are also precursors in forming ozone and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and nitrogen oxides react in the presence of sunlight. ROG are a criteria pollutant since they are a precursor to O<sub>3</sub>, which is a criteria pollutant. The SCAQMD uses the terms ROG and VOC (see previous) interchangeably.
- **Lead (Pb):** Lead is a heavy metal that is highly persistent in the environment. In the past, the primary source of lead in the air was emissions from vehicles burning leaded gasoline. As a result of the removal of lead from gasoline, there have been no violations at any of the SCAQMD's regular air monitoring stations since 1982. Currently, emissions of lead are largely limited to stationary sources such as lead smelters. It should be noted that the Project is not anticipated to generate a quantifiable amount of lead emissions. Lead is a criteria air pollutant.

## Health Effects of Air Pollutants

### Ozone

Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible subgroups for ozone effects. Short-term exposure (lasting for a few hours) to ozone at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated ozone levels are associated with increased school absences. In recent years, a correlation between elevated ambient ozone levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple sports and live in communities with high ozone levels.

Ozone exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes ozone may be more toxic than exposure to ozone alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.

### Carbon Monoxide

Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen supply to the heart. Inhaled CO has no direct toxic effect on the lungs, but exerts its effect on tissues by interfering with oxygen transport and competing with oxygen to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for oxygen supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (oxygen deficiency) as seen at high altitudes.

Reduction in birth weight and impaired neurobehavioral development have been observed in animals chronically exposed to CO, resulting in COHb levels similar to those observed in smokers. Recent studies have found increased risks for adverse birth outcomes with exposure to elevated CO levels; these include pre-term births and heart abnormalities.

#### Particulate Matter

A consistent correlation between elevated ambient fine particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in life-span, and an increased mortality from lung cancer.

Daily fluctuations in PM<sub>2.5</sub> concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter.

The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM<sub>10</sub> and PM<sub>2.5</sub>.

#### Nitrogen Dioxide

Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO<sub>2</sub> at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO<sub>2</sub> in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups.

In animals, exposure to levels of NO<sub>2</sub> considerably higher than ambient concentrations results in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of ozone exposure increases when animals are exposed to a combination of ozone and NO<sub>2</sub>.

#### Sulfur Dioxide

A few minutes of exposure to low levels of SO<sub>2</sub> can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO<sub>2</sub>. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO<sub>2</sub>.

Animal studies suggest that despite SO<sub>2</sub> being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung

edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract.

Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO<sub>2</sub> levels. In these studies, efforts to separate the effects of SO<sub>2</sub> from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically or one pollutant alone is the predominant factor.

#### Lead

Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure.

Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.

#### Odors

The science of odor as a health concern is still new. Merely identifying the hundreds of VOCs that cause odors poses a big challenge. Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

## 2.7 REGULATORY BACKGROUND

### 2.7.1 FEDERAL REGULATIONS

The U.S. EPA is responsible for setting and enforcing the NAAQS for O<sub>3</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and lead (10). The U.S. EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The U.S. EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of the CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955, and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (19). The CAA also mandates that states submit and implement State Implementation Plans

(SIPs) for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O<sub>3</sub>, NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>10</sub>, CO, PM<sub>2.5</sub>, and lead. The NAAQS were amended in July 1997 to include an additional standard for O<sub>3</sub> and to adopt a NAAQS for PM<sub>2.5</sub>. Table 3-1 (previously presented) provides the NAAQS within the basin.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and nitrogen oxides (NO<sub>x</sub>). NO<sub>x</sub> is a collective term that includes all forms of nitrogen oxides (NO, NO<sub>2</sub>, NO<sub>3</sub>) which are emitted as byproducts of the combustion process.

### **2.7.2 CALIFORNIA REGULATIONS**

The CARB, which became part of the California EPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. The California CAA mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. The CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for sulfates, visibility, hydrogen sulfide, and vinyl chloride. However at this time, hydrogen sulfide and vinyl chloride are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (11) (10).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare air quality management plans that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;

- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a five percent or more annual reduction in emissions or 15 percent or more in a period of three years for ROG, NO<sub>x</sub>, CO and PM<sub>10</sub>. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than five percent per year under certain circumstances.

### 2.7.3 AIR QUALITY MANAGEMENT PLANNING

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of Air Quality Management Plans (AQMPs) to meet the state and federal ambient air quality standards (20). AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.8.

## 2.8 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists is known as the Basin. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in Basin air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the Basin. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

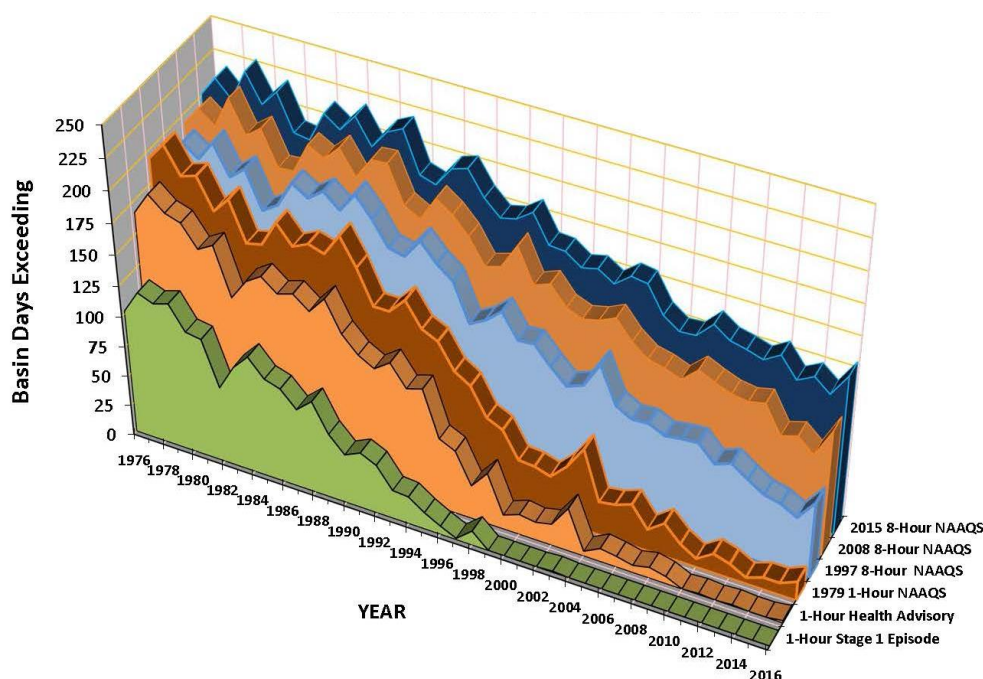
As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire Basin. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the South Coast Basin. The 2012 AQMP states, “the remarkable historical improvement in air quality since the 1970’s is the direct result of Southern California’s comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs,” (21).

Ozone, NO<sub>x</sub>, VOC, and CO have been decreasing in the Basin since 1975 and are projected to continue to decrease through 2020 (22). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled in the Basin continue to increase, NO<sub>x</sub> and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO<sub>x</sub>



emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. Ozone contour maps show that the number of days exceeding the national 8-hour standard has decreased between 1997 and 2007. In the 2007 period, there was an overall decrease in exceedance days compared with the 1997 period. Ozone levels in the SCAB have decreased substantially over the last 30 years as shown in Table 2-4 (23). Today, the maximum measured concentrations are approximately one-third of concentrations within the late 70's.

**TABLE 2-4: SOUTH COAST AIR BASIN OZONE TREND**



The overall trends of PM<sub>10</sub> and PM<sub>2.5</sub> in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM<sub>10</sub> have remained somewhat constant in the Basin and direct emissions of PM<sub>2.5</sub> have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction and demolition, and other sources) contribute the greatest amount of direct particulate matter emissions.

As with other pollutants, the most recent PM<sub>10</sub> statistics also show overall improvement as illustrated in Table 2-5. During the period for which data are available, the 24-hour national annual average decreased by approximately 50 percent, from 103.7  $\mu\text{g}/\text{m}^3$  in 1989 to 52.3  $\mu\text{g}/\text{m}^3$  in 2016. Although the values in the late 1990's show some variability, this is probably due to meteorology rather than a change in emissions. Despite the overall decrease, ambient concentrations still exceed the State annual and 24-hour PM<sub>10</sub> standards. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM<sub>10</sub> standards has also shown an overall drop. The most recent report to include information on the number of days above the national standard was in 2015, in which there were 6.6 calculated national standard exceedance days (24).

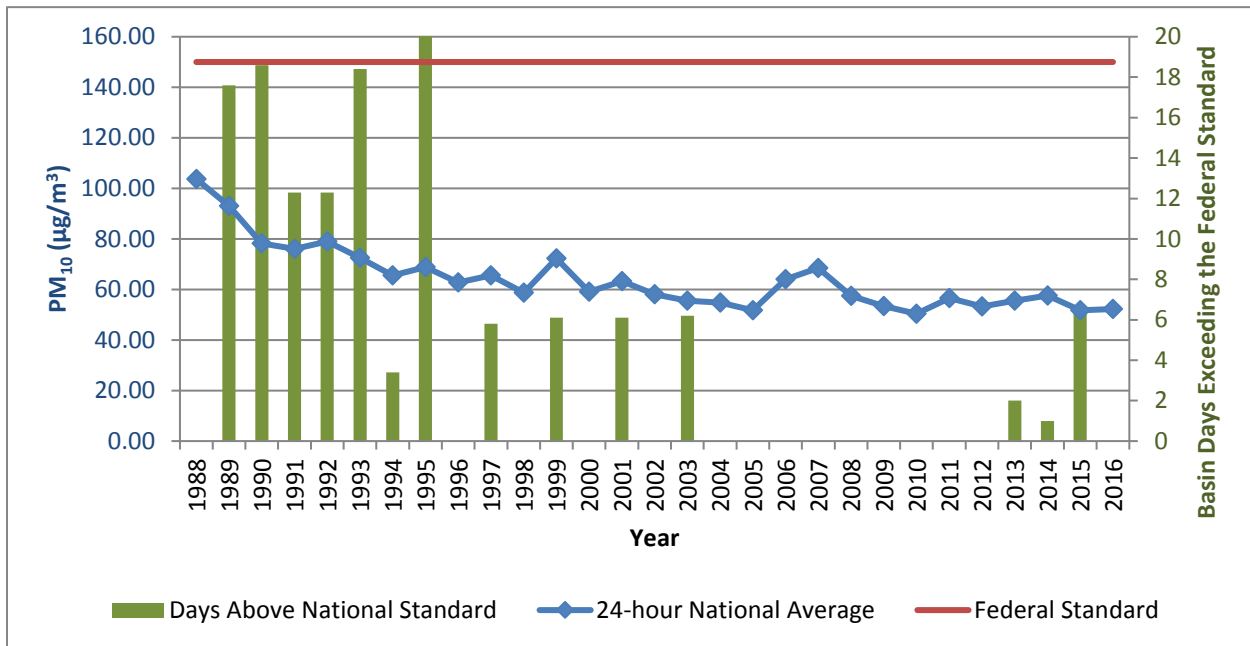
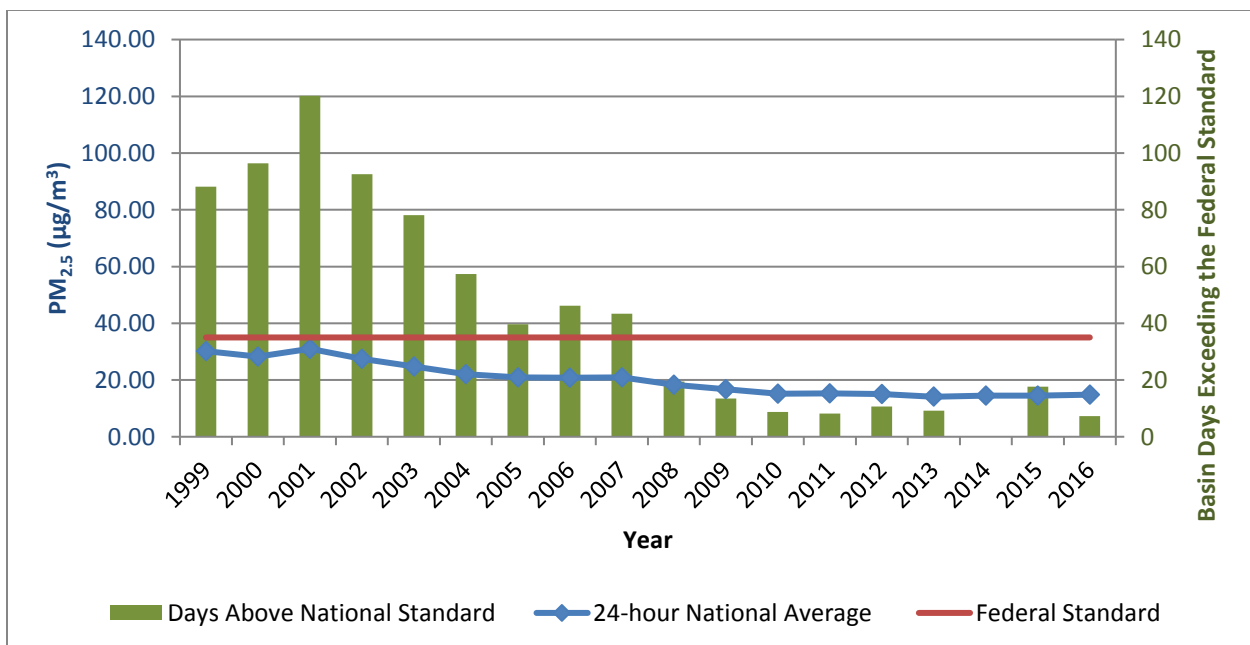
**TABLE 2-5: SOUTH COAST AIR BASIN PM<sub>10</sub> TREND**

Table 2-6 shows the most recent 24-hour average PM<sub>2.5</sub> concentrations (national) in the SCAB from 1999 through 2016. Overall, the annual average concentrations have decreased by almost 51 percent. The calculated number of days above the national standard also decreased, from about 88 days in 1999 to about 7 days in 2016. The SCAB is currently designated as nonattainment for the State and national PM<sub>2.5</sub> standards.

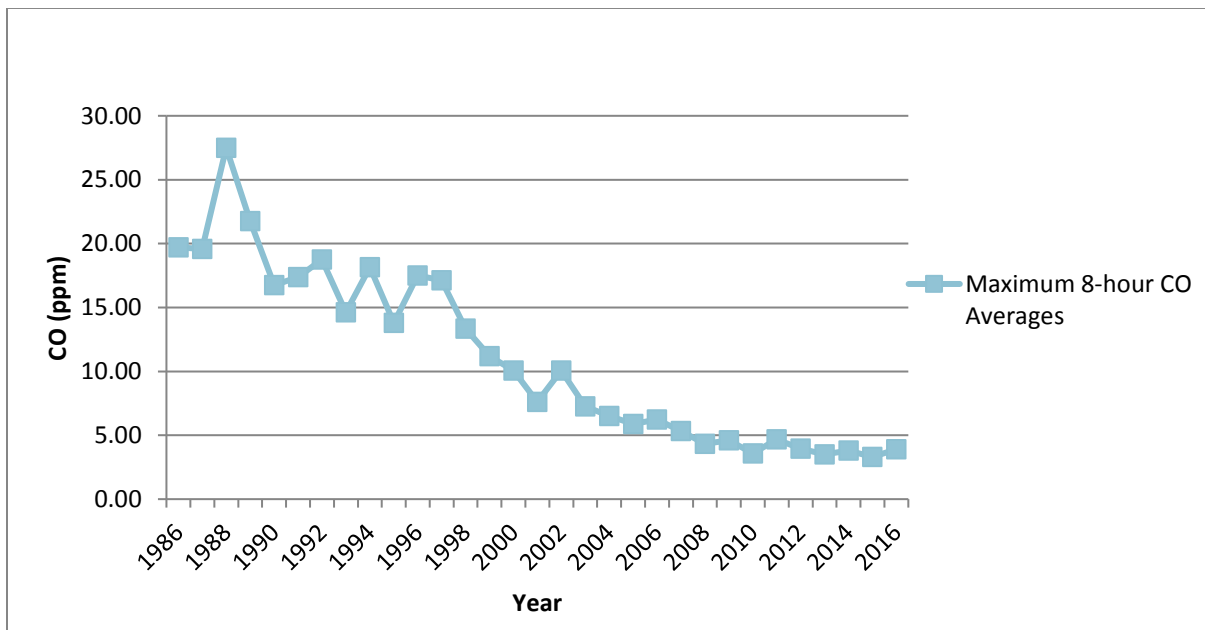
**TABLE 2-6: SOUTH COAST AIR BASIN PM<sub>2.5</sub> TREND**

While the 2012 AQMP PM<sub>10</sub> attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured PM<sub>2.5</sub>. The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of PM<sub>2.5</sub>-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the PM<sub>2.5</sub> increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour PM<sub>2.5</sub> standard, SCAQMD submitted a request and the U.S. EPA approved, in January 2016, a “bump up” to the nonattainment classification from “moderate” to “serious,” with a new attainment deadline as soon as practicable, but not beyond December 31, 2019.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (25). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 RTP/SCS and updated emission inventory methodologies for various source categories (26).

The most recent CO concentrations in the SCAB are shown in Table 2-7 (27). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80 percent in the peak 8-hour concentration since 1986. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

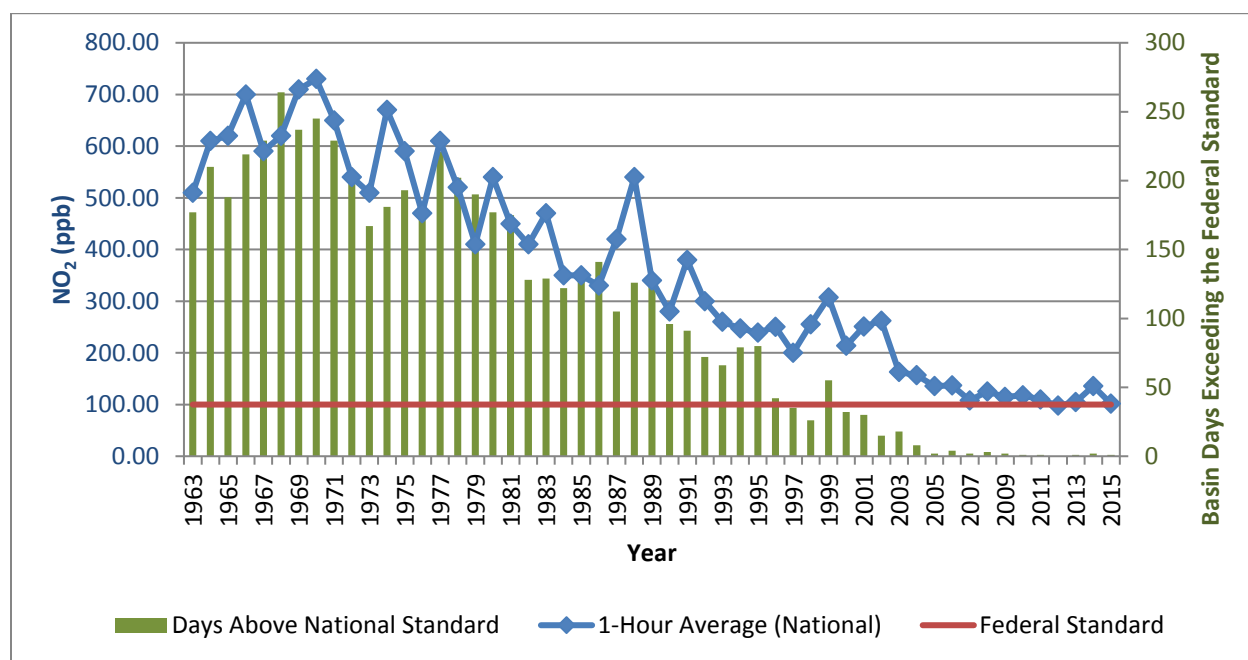
**TABLE 2-7: SOUTH COAST AIR BASIN CARBON MONOXIDE TREND**



Part of the control process of the SCAQMD's duty to greatly improve the air quality in the Basin is the uniform CEQA review procedures required by SCAQMD's CEQA Handbook (28). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the Basin dramatically improving over the course of the past decades. As stated by the SCAQMD, the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

The most recent NO<sub>2</sub> data for the SCAB is shown in Table 2-8 (27). Over the last 50 years, NO<sub>2</sub> values have decreased significantly; the peak 1-hour average for 2016 was approximately 81 percent lower than what it was during 1963. The SCAB attained the State 1-hour NO<sub>2</sub> standard in 1994, bringing the entire State into attainment. A new state annual average standard of 0.030 parts per million was adopted by the ARB in February 2007 (29). The new standard is just barely exceeded in the South Coast. NO<sub>2</sub> is formed from NO<sub>x</sub> emissions, which also contribute to ozone. As a result, the majority of the future emission control measures will be implemented as part of the overall ozone control strategy. Many of these control measures will target mobile sources, which account for more than three-quarters of California's NO<sub>x</sub> emissions. These measures are expected to bring the South Coast into attainment of the State annual average standard.

**TABLE 2-8: SOUTH COAST AIR BASIN NITROGEN DIOXIDE TREND**



The American Lung Association website includes data collected from State air quality monitors that are used to compile an annual State of the Air report. The latest State of the Air Report compiled for the Basin was in 2017 (30). As noted in this report, air quality in the Basin has significantly improved in terms of both pollution levels and high pollution days over the past three decades. The area's average number of high ozone days dropped from 38% regionally in the initial 2000 State of the Air report (1996–1998) to 69% in the 2004 report and continues to decrease

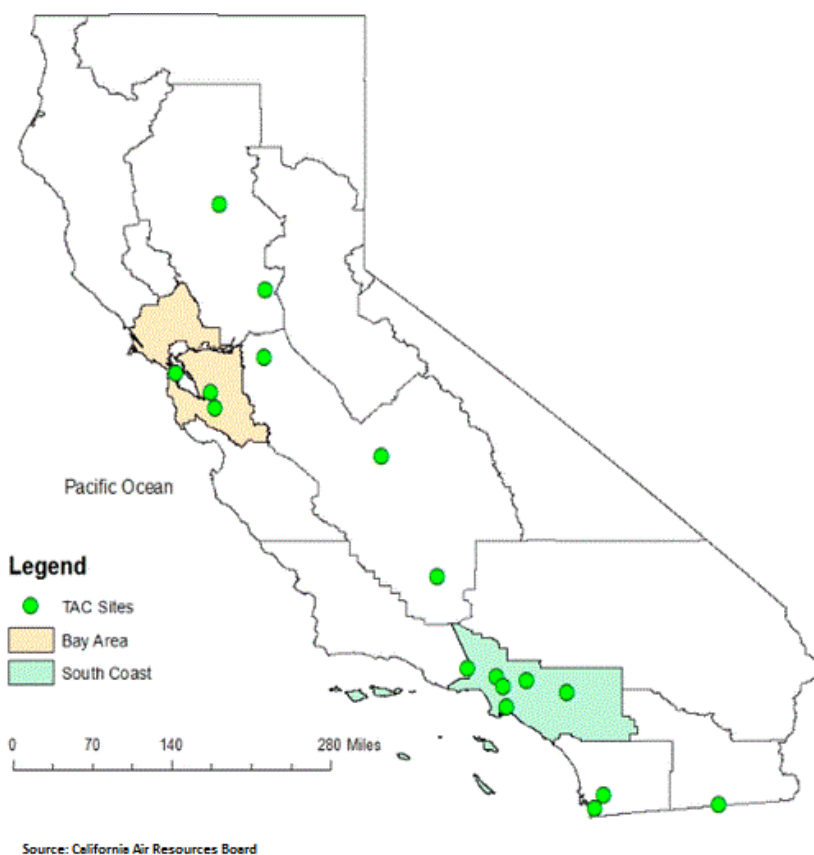
the number of days. The region has also seen dramatic reduction in particle pollution since the initial 2000 State of the Air report (30).

#### **TOXIC AIR CONTAMINANTS (TACs) TRENDS**

In 1984, as a result of public concern for exposure to airborne carcinogens, the CARB adopted regulations to reduce the amount of air toxic contaminant emissions resulting from mobile and area sources, such as cars, trucks, stationary products, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (31) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene, and 1,3-butadiene; those that are derived from stationary sources: perchloroethylene and hexavalent chromium; and those derived from photochemical reactions of emitted VOCs: formaldehyde and acetaldehyde<sup>2</sup>. TACs data was gathered at monitoring sites from both the Bay Area and South Coast Air Basins, as shown on Exhibit 2-A; Several of the sites in the SCAB include Reseda, Compton, Rubidoux, Burbank, and Fontana. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

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<sup>2</sup> It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

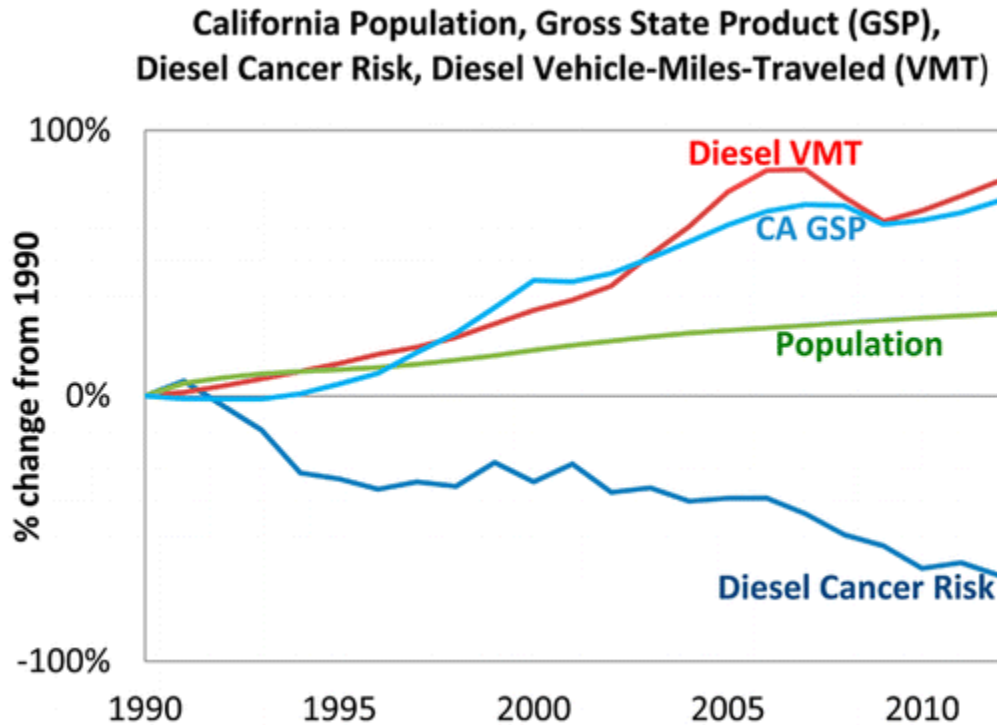
**EXHIBIT 2-A: CALIFORNIA TOXIC AIR CONTAMINANT SITES****Mobile Source TACs**

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life, and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase Check Engine or Service Engine Soon. The system will also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. ARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 lbs. CARB's phase II Reformulated Gasoline (RFG-2) regulation, adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (31).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68% since 2000, even though the state's

population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, ARB expects a DPM decline of 71% for 2000-2020.

**EXHIBIT 2-B: DIESEL PARTICULATE MATTER AND DIESEL VEHICLE MILES TREND**



Source: California Air Resources Board

### DIESEL REGULATIONS

The CARB and the Ports of Los Angeles and Long Beach have adopted several iterations of regulations for diesel trucks that are aimed at reducing diesel particulate matter (DPM). More specifically, the CARB Drayage Truck Regulation (32), the CARB statewide On-road Truck and Bus Regulation (33), and the Ports of Los Angeles and Long Beach “Clean Truck Program” (CTP) require accelerated implementation of “clean trucks” into the statewide truck fleet (34). In other words, older more polluting trucks will be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, will dramatically be reduced due to the aforementioned regulatory requirements.

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

## CANCER RISK TRENDS

Based on information available from CARB, overall cancer risk throughout the basin has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, the State of California Air Resources Board (ARB) identified particulate matter from diesel-fueled engines as a toxic air contaminant. The SCAQMD initiated a comprehensive urban toxic air pollution study, called MATES-II (for Multiple Air Toxics Exposure Study). Diesel particulate matter (DPM) accounts for more than 70 percent of the cancer risk.

In 2008 the SCAQMD prepared an update to the MATES-II study, referred to as MATES-III. MATES-III estimates the average excess cancer risk level from exposure to TACs is an approximately 17% decrease in comparison to the MATES-II study.

Nonetheless, the SCAQMD's most recent in-depth analysis of the toxic air contaminants and their resulting health risks for all of Southern California was from the *Multiple Air Toxics Exposure Study in the South Coast Air Basin, MATES IV*, which shows that cancer risk has decreased more than 55% between MATES III (2005) and MATES IV (2012) (25).

MATES-IV study represents the baseline health risk for a cumulative analysis. MATES-IV calculated cancer risks based on monitoring data collected at ten fixed sites within the South Coast Air Basin (SCAB). None of the fixed monitoring sites are within the local area of the Project site. However, MATES-IV has extrapolated the excess cancer risk levels throughout the basin by modeling the specific grids. MATES-IV modeling predicted an excess cancer risk of 973.08 in one million for the Project area. DPM is included in this cancer risk along with all other TAC sources. DPM accounts for 68% of the total risk shown in MATES-IV. Cumulative Project generated TACs are limited to DPM.

## 2.9 EXISTING PROJECT SITE AIR QUALITY CONDITIONS

The Project site is currently vacant and as such, existing air quality conditions at the Project site would generally reflect ambient monitored conditions previously presented previously at Table 2-3.



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### 3 PROJECT AIR QUALITY IMPACT

#### 3.1 INTRODUCTION

The Project has been evaluated to determine if it will violate an air quality standard or contribute to an existing or projected air quality violation. Additionally, the Project has been evaluated to determine if it will result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment under an applicable federal or state ambient air quality standard. The significance of these potential impacts is described in the following section.

#### 3.2 STANDARDS OF SIGNIFICANCE

The SCAQMD has developed regional and localized significance thresholds for regulated pollutants, as summarized at Table 3-1 (35). The SCAQMD's CEQA Air Quality Significance Thresholds (March 2015) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact. It should be noted that the SCAQMD provides a threshold for emissions of lead, however for purposes of this analysis no lead emissions are calculated as there are no substantive sources of lead emissions. Additionally, the air quality modeling program (discussed below) does not calculate any emissions of lead from typical construction or operational activities.

**TABLE 3-1: MAXIMUM DAILY EMISSIONS THRESHOLDS<sup>A</sup> (1 OF 2)**

Pollutant	Construction	Operations
<b>Regional Thresholds</b>		
NOx	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM10	150 lbs/day	150 lbs/day
PM2.5	55 lbs/day	55 lbs/day
Sox	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day

<sup>A</sup>: Based on SCAQMD Air Quality Significance Thresholds, March 2015

**TABLE 3-1: MAXIMUM DAILY EMISSIONS THRESHOLDS<sup>A</sup> (2 OF 2)**

Pollutant	Construction	Operations
<b>Localized Thresholds</b>		
CO	585 lbs/day (demolition)	716 lbs/day
	668 lbs/day (site preparation)	
	684 lbs/day (grading)	
NO <sub>x</sub>	19,386 lbs/day (demolition)	25,186 lbs/day
	23,088 lbs/day (site preparation)	
	23,798 lbs/day (grading)	
PM <sub>10</sub>	243 lbs/day (demolition)	69 lbs/day
	212 lbs/day (site preparation)	
	236 lbs/day (grading)	
PM <sub>2.5</sub>	118 lbs/day (demolition)	35 lbs/day
	135 lbs/day (site preparation)	
	138 lbs/day (grading)	

### 3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ESTIMATE AQ EMISSIONS

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

On October 17, 2017, the SCAQMD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the California Emissions Estimator Model™ (CalEEMod™) v2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (NO<sub>x</sub>, VOC, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, and CO) and greenhouse gas (GHG) emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (36). Accordingly, the latest version of CalEEMod™ has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendix 3.2 through 3.6.

### 3.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of CO, VOCs, NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. Construction related emissions are expected from the following construction activities:

- Demolition
- Grading
- Building Construction

- Architectural Coating
- Paving
- Construction Workers Commuting

Construction is expected to commence in September 2018 and will last through December 2020. The duration of construction activity was estimated based on past project experience and based on information provided by the Project Applicant. The construction schedule utilized in the analysis, shown in Table 3-1, represents a “worst-case” analytical scenario. The reason this schedule represents a “worst-case” analytical scenario is due to the fact that emission factors for construction equipment and vehicles decrease as time passes and as the analysis year increases due to emission regulations becoming more stringent and the natural turnover of older fleets that are replaced by newer fleets that are less polluting<sup>3</sup>. A detailed summary of construction, shown in Table 3-2, was estimated based on past project experience and CalEEMod model defaults. The site specific construction fleet may vary due to specific project needs at the time of construction. The duration of construction activity and associated equipment both represent a reasonable approximation of the expected construction fleet as required per CEQA guidelines. Please refer to specific detailed modeling inputs/outputs contained in Appendix 3.1 of this analysis.

Dust is typically a major concern during rough grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called “fugitive emissions”. Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). The CalEEMod model was utilized to calculate fugitive dust emissions resulting from this phase of activity. The Project is expected to balance, but as a conservative measure, 10,000 cubic yards of export is assumed. The initial study indicates that the Project site will require the demolition of two existing residential homes. Demolition quantities have been approximated according to information obtained from Zillow that quantifies one residential unit to be 2,510 square feet. No information has been provided for the second residential home. An aerial view of the Project site indicates that the second residential building is similar in size to the first, thus it is assumed that both buildings total 5,020 square feet. Additional structures are located on site that will require demolition. As a conservative measure, it is assumed that the Project will generate 10,040 square feet/461.84 tons of debris during demolition activities.

Construction emissions for construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information from the applicant and the CalEEMod model.

#### **OFF-SITE UTILITY AND INFRASTRUCTURE IMPROVEMENTS**

Construction emissions associated with off-site utility and infrastructure improvements may occur, however at this time, a specific schedule of off-site utility and infrastructure improvements

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<sup>3</sup> As shown in the California Emissions Estimator Model (CalEEMod) User’s Guide Version 2016.3.2, Section 4.3 “OFFROAD Equipment” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

is unknown. However, based upon Urban Crossroads' extensive experience in analyzing off-site utility and infrastructure improvements for similar types of projects, the impacts associated with these expected activities are not expected to exceed the peak emissions identified for on-site Project- related construction activities. As such, no impacts beyond what has already been identified in this report are expected to occur.

**TABLE 3-2: CONSTRUCTION DURATION**

Phase Name	Start Date	End Date	Days
Demolition	09/14/2018	12/20/2018	70
Site Preparation	12/21/2018	01/17/2019	20
Grading	01/18/2019	10/24/2019	200
Building Construction	10/25/2019	10/08/2020	250
Paving	07/09/2020	12/30/2020	125
Architectural Coating	08/27/2020	12/30/2020	90

**TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS**

Phase Name	Equipment Type	Number of Equipment	Hours per day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Building Construction	Cranes	1	8
	Crawler Tractors	3	8
	Forklifts	3	8
	Generator Sets	1	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

### 3.4.1 CONSTRUCTION EMISSIONS SUMMARY

The SCAQMD Rules that are currently applicable during construction activity for this Project include but are not limited to: Rule 1113 (Architectural Coatings) (3); Rule 431.2 (Low Sulfur Fuel) (4); Rule 403 (Fugitive Dust) (37); and Rule 1186 / 1186.1 (Street Sweepers) (6). As such, credit for Rule 1113 and Rule 403 have been taken.

The estimated maximum daily construction emissions without mitigation are summarized on Table 3-4. Detailed construction model outputs are presented in Appendix 3.2. Under the assumed scenarios, emissions resulting from the Project construction would not exceed criteria pollutant thresholds established by the SCAQMD for emissions for any criteria pollutant. Therefore, a less than significant impact would occur and no mitigation is required.

**TABLE 3-4: MAXIMUM DAILY PEAK CONSTRUCTION EMISSIONS SUMMARY**

Year	Emissions (pounds per day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2018	6.25	73.98	25.14	0.06	11.33	6.93
2019	6.07	70.34	36.14	0.14	11.18	6.80
2020	73.83	87.12	54.87	0.18	8.25	4.05
<b>Maximum Daily Emissions</b>	<b>73.83</b>	<b>87.12</b>	<b>54.87</b>	<b>0.18</b>	<b>11.33</b>	<b>6.93</b>
SCAQMD Regional Threshold	75	100	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

### 3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Equipment Emissions
- Off-Site Tractor Parking Emissions

#### 3.5.1 AREA SOURCE EMISSIONS

##### Architectural Coatings

Over a period of time the buildings that are part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using the CalEEMod model.

### Consumer Products

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within the CalEEMod model.

### Landscape Maintenance Equipment

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in the CalEEMod model.

## **3.5.2 ENERGY SOURCE EMISSIONS**

### Combustion Emissions Associated with Natural Gas and Electricity

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity is generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using the CalEEMod model.

## **3.5.3 MOBILE SOURCE EMISSIONS**

### Vehicles

Project-related operational air quality impacts derive predominantly from mobile sources. In this regard, over 95 percent (by weight) of all Project operational-source emissions would be generated by mobile sources (vehicles). Neither the Project Applicant nor the City has any regulatory control over these tail pipe emissions. Rather, vehicle tail pipe source emissions are regulated by CARB and USEPA. As summarized previously herein, as the result of CARB and USEPA actions, Basin-wide vehicular-source emissions have been reduced dramatically over the past years and are expected to further decline as clean vehicle and fuel technologies improve.

The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. Trip characteristics available from the report, *Chino Parcel Delivery Traffic Impact Analysis* (Urban Crossroads 2018) were utilized in this analysis (38).

Per the *Chino Parcel Delivery Traffic Impact Analysis*, the Project is expected to generate a net total of approximately 3,905 trip-ends per day (actual vehicles) (38) for the parcel delivery use. As previously stated, the 26,529 square feet of ancillary building will not generate any additional

traffic. The Project trip generation includes 1,263 truck trip-ends per day from the proposed Project site including 61.6% 2-axle trucks, 22.8% 3-axle trucks, and 15.6% 4+-axle trucks.

### 3.5.3.1 Trip Length

For passenger car trips, a one-way trip length of 16.6 miles was assumed as contained in the CalEEMod™ model defaults. For trucks, an average one-way trip length of 88.7 miles was derived by taking into account the truck trip distribution patterns disclosed in the TIA and the distances from the Project site to the far edges of the South Coast Air Basin (SCAB) as follows.

- Project site to the San Diego County Line (Southern Edge of SCAB): 60 miles;
- Project site to Cajon Pass (Northern Edge of SCAB): 50 miles;
- Project site to Desert Center (Eastern Edge of SCAB): 150 miles;
- Project site to Santa Clarita (Northwestern Edge of SCAB): 70 miles;
- Project site to Port of Los Angeles/Long Beach: 60 miles;

Weighted Truck Trip Length = 88.7 miles

It is appropriate to stop the VMT calculation at the boundary of the SCAB because any activity beyond that boundary would be speculative and would occur in a different Air Basin; this approach is also consistent with professional industry practice. Additionally, the method used in this study is more conservative in comparison to the SCAQMD's typical recommendation that a 40-mile trip length be used. It is also more conservative than the common assumption that 50% of trucks travel to the Port of Los Angeles and Port of Long Beach and the remaining 50% of trucks travel to either the Cajon Pass, Desert Center, Santa Clarita and/or the San Diego County Line, this approach would result in a weighted truck trip length of 88.7 miles. As previously stated, the approach for analysis purposes in this AQIA report represents a conservative estimate of emissions and almost certainly overstates the emissions impact from the Project.

### Fugitive Dust Related to Vehicular Travel

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of tire wear particulates. The emissions estimates for travel on paved roads were calculated using the CalEEMod model.

### 3.5.4 ON-SITE EQUIPMENT EMISSIONS

It is common for an industrial project to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers. The most common type of cargo handling equipment is the yard truck which is designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors (UTRs), hustlers, yard hostlers, and yard tractors. Based on information from the Project applicant, it is assumed that the Project would utilize a total of 8 yard goats with 4 being diesel powered and 4 being gasoline powered.



### 3.5.5 OFF-SITE TRACTOR PARKING EMISSIONS

An off-site parking lot is proposed to be utilized for tractor parking. Per the *Chino Parcel Delivery Traffic Impact Analysis*, off-site parking lot would be accessible via Driveway 3 on Flight Avenue as there is no direct connection between the main facility and the off-site tractor parking (2). Employees would park in the parking lot to pick up a tractor and head over to the main facility for the trailers (the reverse would occur at the end of the shift). The approximate trip length from the off-site parking lot to the truck entrance of the facility is approximately 0.20 miles. As a conservative measure, a 0.25-mile trip length has been utilized to represent the length traveled between the tractor parking lot and the main facility. This results in approximately 421 two-way daily truck trips.

### 3.5.6 OPERATIONAL EMISSIONS SUMMARY

#### *Impacts Without/With Mitigation*

Operational-source emissions are summarized on Table 3-5. Detailed operational model outputs are presented in Appendix 3.3 and 3.6. As indicated, the Project has the potential to exceed regional thresholds of significance established by the SCAQMD for emissions of NO<sub>x</sub>. No feasible mitigation measures exist that would reduce these emissions to levels that are less-than-significant. Project operational-source NO<sub>x</sub> emissions exceedances of applicable SCAQMD regional thresholds are therefore considered significant and unavoidable.

**TABLE 3-5: SUMMARY OF OPERATIONAL EMISSIONS (WITHOUT/WITH MITIGATION – 1 OF 2)**

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area Source	13.12	4.53E-03	0.49	4.00E-05	1.76E-03	1.76E-03
Energy Source	0.03	0.27	0.22	1.59E-03	0.02	0.02
Mobile (Trucks)	24.46	579.60	256.22	2.11	104.436	33.46
Mobile (Passenger Cars)	4.12	5.92	85.36	0.29	33.52	9.00
Mobile (Tractor Parking)	0.91	47.84	4.45	0.07	0.11	0.04
On-Site Equipment	1.611	17.84	7.93	0.03	0.69	0.64
<b>Total Maximum Daily Emissions</b>	<b>44.24</b>	<b>651.47</b>	<b>354.67</b>	<b>2.50</b>	<b>138.78</b>	<b>43.17</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**TABLE 3-5: SUMMARY OF OPERATIONAL EMISSIONS (WITHOUT/WITH MITIGATION – 2 OF 2)**

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area Source	13.12	4.53E-03	0.49	4.00E-05	1.76E-03	1.76E-03
Energy Source	0.03	0.27	0.22	1.59E-03	0.02	0.02
Mobile (Trucks)	24.41	605.26	253.87	2.11	104.43	33.46
Mobile (Passenger Cars)	3.36	6.18	68.69	0.26	33.52	9.00
Mobile (Tractor Parking)	1.03	45.80	6.71	0.06	0.11	0.05
On-Site Equipment	1.61	17.84	7.93	0.27	0.69	0.64
<b>Total Maximum Daily Emissions</b>	<b>43.57</b>	<b>675.35</b>	<b>337.92</b>	<b>2.46</b>	<b>138.78</b>	<b>43.17</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

### 3.6 LOCALIZED SIGNIFICANCE- CONSTRUCTION ACTIVITY

#### BACKGROUND ON LOCALIZED SIGNIFICANCE THRESHOLD (LST) DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (Methodology) (39). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The significance of localized emissions impacts depends on whether ambient levels in the vicinity of any given project are above or below State standards. In the case of CO and NO<sub>2</sub>, if ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a state or federal standard, then project emissions are considered significant if they increase ambient concentrations by a measurable amount. This would apply to PM<sub>10</sub> and PM<sub>2.5</sub>; both of which are non-attainment pollutants.

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4<sup>4</sup>. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would

<sup>4</sup> The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (40).

#### **APPLICABILITY OF LSTs FOR THE PROJECT**

For this Project, the appropriate Source Receptor Area (SRA) for the LST analysis is the Southwest San Bernardino air monitoring station (SRA 33). LSTs apply to carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), particulate matter  $\leq 10$  microns (PM<sub>10</sub>), and particulate matter  $\leq 2.5$  microns (PM<sub>2.5</sub>). The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size.

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- CalEEMod is utilized to determine the maximum daily on-site emissions that will occur during construction activity.
- The SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds (41) is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod.
- If the total acreage disturbed is less than or equal to five acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a Project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in pounds per day that can be compared to CalEEMod outputs.
- If the total acreage disturbed is greater than five acres per day (as is the case with the Project), then LST impacts are appropriately evaluated through dispersion modeling.

#### **EMISSIONS CONSIDERED**

SCAQMD's Methodology clearly states that "off-site mobile emissions from the Project should NOT be included in the emissions compared to LSTs (42)." Therefore, for purposes of the construction LST analysis only emissions included in the CalEEMod "on-site" emissions outputs were considered.

#### **MAXIMUM DAILY DISTURBED-ACREAGE**

Table 3-6 is used to determine the maximum daily disturbed-acreage during demolition and site grading for purposes of modeling localized emissions. Based on Table 3-6, the proposed Project could actively disturb approximately 1 acres per day during demolition activities, 3.5 acres per day during site preparation activities, and 4 acres per day during the grading phase of construction.

**TABLE 3-6: MAXIMUM DAILY DISTURBED-ACREAGE**

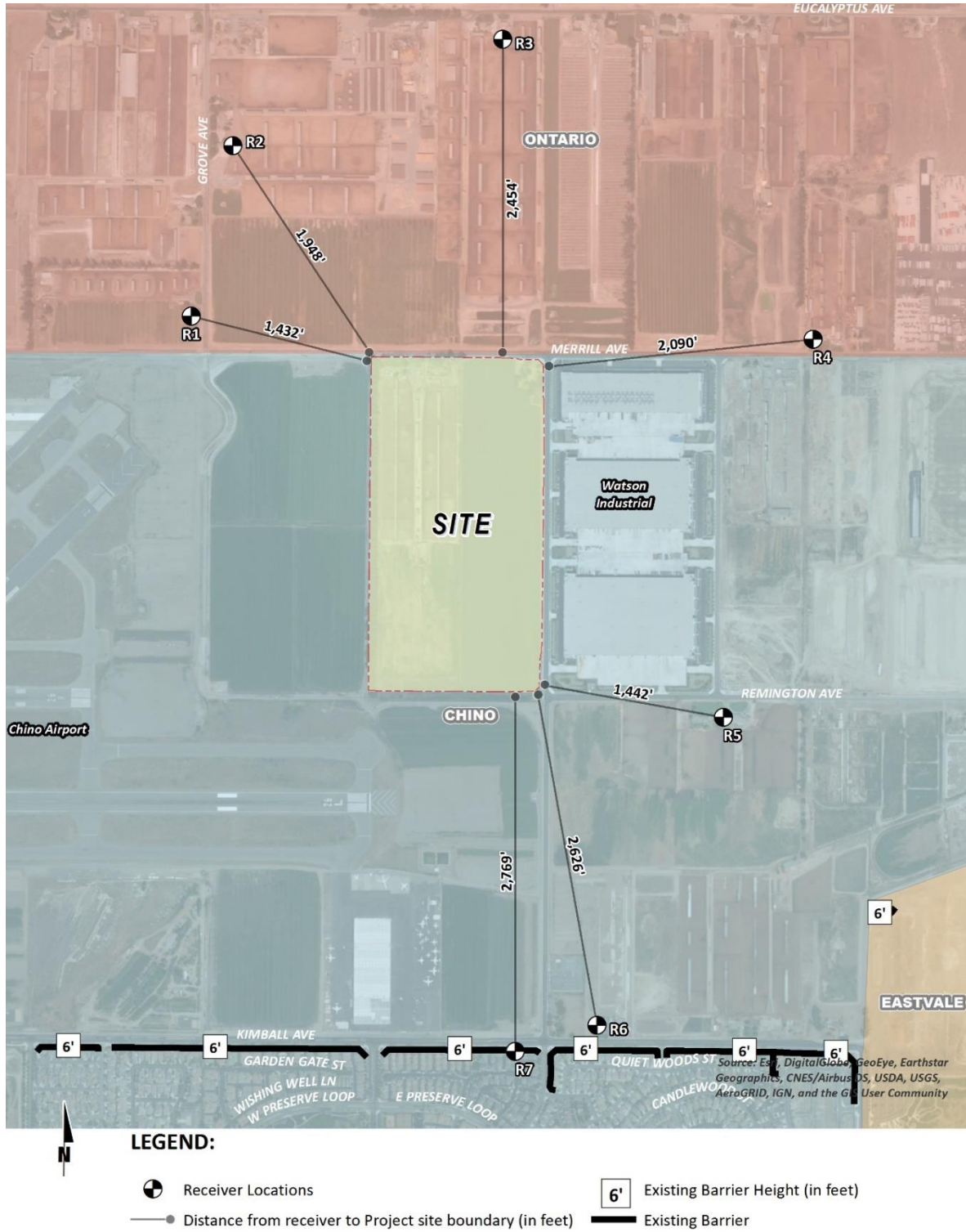
Construction Phase	Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Demolition	Crawler Tractors	0	0.5	8	0
	Graders	0	0.5	8	0
	Rubber Tired Dozers	2	0.5	8	1
	Scrapers	0	1	8	0
Total acres graded per day during Demolition					1
Site Preparation	Crawler Tractors	4	0.5	8	2
	Graders	0	0.5	8	0
	Rubber Tired Dozers	3	0.5	8	1.5
	Scrapers	0	1	8	0
Total acres graded per day during Site Preparation					3.5
Grading	Crawler Tractors	2	0.5	8	1
	Graders	1	0.5	8	0.5
	Rubber Tired Dozers	1	0.5	8	0.5
	Scrapers	2	1	8	2
Total acres graded per day during Grading					4

***Sensitive Receptors***

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, individuals with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. Structures that house these persons or places where they gather to exercise are defined as “sensitive receptors”; they are also known to be locations where an individual can remain for 24 hours. The nearest sensitive receptor is a residential home located 1,432 feet/ 436.47 meters northwest of the Project Site. Other sensitive receptors near the Project site include existing residential homes and agricultural land uses with residential homes, as described below.

- R1: Located approximately 1,432 feet northwest of the Project site, R1 represents an existing agricultural use with residential home on Grove Avenue.
- R2: Location R2 represents an existing agricultural use with residential home located approximately 1,948 feet north of the Project site on Grove Avenue.
- R3: Location R3 represents an existing agricultural use with residential home located roughly 2,454 feet north of the Project site.
- R4: Location R4 represents an existing agricultural use with residential home located roughly 2,090 feet east of the Project site on Merrill Avenue.
- R5: Location R5 represents an existing agricultural use with residential home located roughly 1,442 feet east of the Project site on Remington Avenue.

### EXHIBIT 3-A: SENSITIVE RECEPTOR LOCATIONS



- R6: Location R6 represents an existing agricultural use with residential home located approximately 2,626 feet south of the Project site on Kimball Avenue.
- R7: Located approximately 2,769 feet south of the Project site, R7 represents the existing residential homes south of Kimball Avenue.

The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual and cumulatively significant impact.

#### CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

Since the total acreage disturbed is less than five acres per day for demolition, site preparation activities, and the grading activities, the SCAQMD's screening look-up tables are utilized in determining impacts. It should be noted that since the look-up tables identifies thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized, consistent with SCAQMD guidance, in order to interpolate the threshold values for the other disturbed acreage not identified. As previously noted, a 436.47-meter receptor distance is utilized to determine the LSTs for emissions of CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>.

Table 3-7 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Outputs from the model runs for construction LSTs are provided in Appendix 3.2. It should be noted that credit for BACMs AQ-1 and AQ-2 has been taken. Under the assumed scenarios, emissions resulting from the Project construction would not exceed criteria pollutant thresholds established by the SCAQMD for emissions for any criteria pollutant. Therefore, a less than significant impact would occur and no mitigation is required.

**TABLE 3-7: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION**

On-Site Demolition Emissions	Emissions (pounds per day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Maximum Daily Emissions	38.32	22.30	1.99	1.81
SCAQMD Localized Threshold	585	19,386	243	118
Threshold Exceeded?	NO	NO	NO	NO
On-Site Site Preparation Emissions	Emissions (pounds per day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Maximum Daily Emissions	71.70	23.76	10.99	6.83
SCAQMD Localized Threshold	668	23,088	212	135
Threshold Exceeded?	NO	NO	NO	NO
On-Site Grading Emissions	Emissions (pounds per day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Maximum Daily Emissions	65.83	33.93	6.47	3.91
SCAQMD Localized Threshold	684	23,798	236	138
Threshold Exceeded?	NO	NO	NO	NO

### 3.7 LOCALIZED SIGNIFICANCE – LONG-TERM OPERATIONAL ACTIVITY

Generally, the maximum acreage would be the Project's building square footage, which is approximately 476,285 square feet of parcel delivery and 26,529 square feet of ancillary building, or 11.54 acres. It should be noted that the ancillary buildings will not generate additional traffic but will use electricity, architectural coating, consumer products, and landscaping. However, for the purposes of this analysis, and as a conservative measure, the SCAQMD look-up tables of 5-acres are used to determine localized significance thresholds for operational activity. Although the project site is greater than 5 acres, the LST lookup tables can be used to show that even if the daily emissions from all project operations were emitted on a 5-acre site (and therefore concentrated over a smaller area which would result in greater site adjacent concentrations), the impacts would be less than significant. Table 3-8 shows the calculated emissions for the Project's operational activities compared with the applicable LSTs. The LST analysis includes on-site sources only; however, the CalEEMod™ model outputs do not separate on-site and off-site emissions from mobile sources. In an effort to establish a maximum potential impact scenario for analytic purposes, the emissions shown on Table 3-8 represent all on-site Project-related stationary (area) sources and five percent (5%) of the Project-related on-site mobile sources. The distance a passenger car would make through the parking lot is approximately 0.20 miles while the distance a truck would make through the facility is approximately 1.5 miles. For purposes of analysis, considering that the weighted trip length used in CalEEMod™ for the Project is approximately 16.6 miles for passenger cars and 88.7 miles for trucks, 5% of the total passenger car and truck trip length would conservatively represent an on-site travel distance of approximately 0.83 mile/ 4,383 feet for each passenger car and approximately 4.44 miles/ 23,443.2 feet for each truck. As such, the 5% assumption is a conservative measure and would tend to overstate the actual impact. Modeling based on these assumptions demonstrates that even within broad encompassing parameters, Project operational-source emissions would not exceed applicable LSTs.

As previously noted, a 436.47-meter receptor distance is utilized to determine the LSTs for emissions of CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>.

#### LOCALIZED THRESHOLDS FOR OPERATIONAL ACTIVITY

Applicable localized thresholds from the SCAQMD's mass-rate LST lookup tables for a five-acre project site are as follows:

- NO<sub>x</sub>: 716 pounds per day;
- CO: 25,185 pounds per day.
- PM<sub>10</sub>: 69 pounds per day; or
- PM<sub>2.5</sub>: 35 pounds per day.

If emissions exceed the applicable LSTs for the Project site, then additional dispersion modeling needs to be conducted to determine if there is an actual exceedance of the AAQS.

**TABLE 3-8: LOCALIZED SIGNIFICANCE OPERATIONS SUMMARY**

Peak Operational Emissions	Emissions (pounds per day)			
	NOx	CO	PM10	PM2.5
Maximum Daily Emissions	32.83	18.41	0.13	6.97
SCAQMD Localized Threshold	716	25,185	69	35
Threshold Exceeded?	NO	NO	NO	NO

As shown on Table 3-8 operational emissions will not exceed the LST thresholds for the nearest sensitive receptor. Therefore, the Project will have a less than significant localized impact during operational activity.

### 3.8 CO “HOT SPOT” ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or “hot spots.” Further, detailed modeling of Project-specific carbon monoxide (CO) “hot spots” is not needed to reach this conclusion.

An adverse CO concentration, known as a “hot spot”, would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur. At the time of the 1993 Handbook, the SCAB was designated nonattainment under the California AAQS and National AAQS for CO (43).

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment, as previously noted in Table 2-2. Also, CO concentrations in the Project vicinity have steadily declined, as indicated by historical emissions data presented previously at Table 2-3.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, SCAQMD conducted a CO “hot spot” analysis at four busy intersections in Los Angeles at the peak morning and afternoon time periods. The results of the SCAQMD CO “hot spot” analysis did not predict any violation of CO standards, as shown on Table 3-9.

**TABLE 3-9: CO MODEL RESULTS**

Intersection Location	Carbon Monoxide Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire-Veteran	4.6	3.5	4.2
Sunset-Highland	4	4.5	3.9
La Cienega-Century	3.7	3.1	5.8
Long Beach-Imperial	3	3.1	9.3



Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 9.3 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the SCAQMD CO “hot spot” analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 8.6 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (43). In contrast, the ambient 8-hr CO concentration within the Project study area is estimated at 1.4 ppm—1.6 ppm (please refer to previous Table 2-3). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO “hot spot” at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (44).

Traffic volumes generating the CO concentrations for the SCAQMD CO “hot spot” analysis, shown on Table 3-10. The busiest intersection evaluated was that at Wilshire Blvd. and Veteran Ave., which has a daily traffic volume of approximately 100,000 vehicles per day. The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations ( $4.6 \text{ ppm} \times 4 = 18.4 \text{ ppm}$ ) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).<sup>5</sup> At buildout of the Project, the highest average daily trips on a segment of road would be 69,000 daily trips on Hamner Avenue and Limonite Avenue which is lower than the highest daily traffic volumes generated at the busiest intersection in the SCAQMD CO “hot spot” analysis (45).

**TABLE 3-10: TRAFFIC VOLUMES FOR INTERSECTIONS EVALUATED IN AQMP**

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire-Veteran	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset-Highland	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega-Century	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674
Long Beach-Imperial	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

The proposed Project considered herein would not produce the volume of traffic required to generate a CO “hot spot” either in the context of the 2003 SCAQMD CO hot spot study, or based

<sup>5</sup> Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

on representative BAAQMD CO threshold considerations, as shown on Table 3-11. Therefore, CO “hot spots” are not an environmental impact of concern for the proposed Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

**TABLE 3-11: PROJECT PEAK HOUR TRAFFIC VOLUMES**

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Euclid Av./Edison Av.	1,581/2,427	2,783/2,318	1,280/1,883	1,295/1,182	6,939/7,810
Archibald Av./Ontario Ranch Rd.	1,169/1,623	1,166/1,382	1,360/2,139	1,241/1,634	4,936/6,778
Hamner Av./Limonite Av.	1,105/1,610	1,370/2,029	1,803/1,628	1,588/2,390	5,866/7,657
I-15 Northbound/Limonite Av.	1,274/1,513	0/0	2,389/2,183	2,357/3,003	6,020/6,699

Source: Chino Parcel Delivery Traffic Impact Analysis (Urban Crossroads, Inc., 2018).

### 3.9 AIR QUALITY MANAGEMENT PLANNING

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the Southern California Association of Governments (SCAG), county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the Basin. In response, the SCAQMD has adopted a series of Air Quality Management Plans (AQMPs) to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (25). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 RTP/SCS and updated emission inventory methodologies for various source categories (26). The Project’s consistency with the AQMP will be determined using the 2016 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the SCAQMD’s CEQA Air Quality Handbook (1993) (28). These indicators are discussed below:

- Consistency Criterion No. 1: The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

### **Construction Impacts**

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if localized significance thresholds (LSTs) or regional significance thresholds were exceeded. The Project would not exceed the applicable LST thresholds or regional significance thresholds for construction activity. Therefore, the Project would not conflict with the AQMP according to this criterion.

### **Operational Impacts**

The Project would not exceed the applicable LST thresholds for operational activity. Therefore, the Project would not have the potential to conflict with the AQMP according to this criterion.

On the basis of the preceding discussion, the Project is consistent with the first criterion.

- Consistency Criterion No. 2: The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.

### **Overview**

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the Southern California Association of Governments (SCAG), which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Chino General Plan is considered to be consistent with the AQMP.

### **Construction Impacts**

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities.

### **Operational Impacts**

The City of Chino General Plan designates the Project site as "Public" land use. The Public land use is intended for major public uses or institutions, including the Civic Center, hospital, post offices, fire stations, and the airport (46). The Project intends to change the land use designation from "Public" to "Light Industrial" which will allow for light industrial or manufacturing uses with minimum 1-acre lots and a maximum floor area ratio (FAR) up to 0.6.

As indicated, the total development is proposing to construct a parcel delivery facility within a single building with up to 476,285 square feet of building space with an additional 26,529 square feet of ancillary buildings. The Project's land uses are not consistent with the adopted zoning,

and the development intensities have the potential to exceed what is allowed under the General Plan. The Project would therefore conflict with the AQMP.

### **AQMP Consistency Conclusion**

The Project would have the potential to result in or cause NAAQS or CAAQS violations since the development intensities exceed what is allowed under the General Plan and since the Project exceeds the daily operational thresholds established by the SCAQMD. Therefore, the Project would have the potential to conflict with the AQMP.

### **3.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS**

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, child care centers, and athletic facilities can also be considered as sensitive receptors.

Results of the LST analysis indicate that, with application of mitigation, the Project will not exceed the SCAQMD localized significance thresholds during construction. Therefore sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

Results of the LST analysis indicate that the Project will not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO “hotspot.” Therefore sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

### **3.11 ODORS**

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential sources of operational odors generated by the Project would include disposal of miscellaneous commercial refuse. Consistent with City requirements, all Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with solid waste regulations, thereby precluding substantial

generation of odors due to temporary holding of refuse on-site. Moreover, SCAQMD Rule 402 acts to prevent occurrences of odor nuisances (1).

### 3.12 CUMULATIVE IMPACTS

The Project area is designated as an extreme non-attainment area for ozone, and a non-attainment area for PM<sub>10</sub>, PM<sub>2.5</sub>, and lead.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (47). In this report the AQMD clearly states (Page D-3):

*“...the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is  $HI > 1.0$  while the cumulative (facility-wide) is  $HI > 3.0$ . It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*

*Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.”*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD’s recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

#### CRITERION 1; REGIONAL ANALYSIS

##### Construction Impacts

Project construction-source air pollutant emissions would not exceed the SCAQMD regional thresholds for any criteria pollutant (after mitigation). Therefore, the Project would not result in a cumulatively considerable significant impact with respect to construction activity.

##### Operational Impacts

Project operational-source air pollutant emissions would exceed the SCAQMD regional thresholds for emissions of NO<sub>x</sub>. Therefore, the Project would have the potential to result in a cumulatively considerable significant impact with respect to operational activity.

**CRITERION 2; LIST APPROACH**

A list approach is used, in accordance with Section 15130(b) of the CEQA Guidelines, which states the following:

*The following elements are necessary to an adequate discussion of significant cumulative impacts: 1) Either: (A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency, or (B) A summary of projections contained in an adopted general plan or related planning document, or in a prior environmental document which has been adopted or certified, which described or evaluated regional or area wide conditions contributing to the cumulative impact.*

The SCAQMD has recognized that there is typically insufficient information to quantitatively evaluate the cumulative contributions of multiple projects because each project applicant has no control over nearby projects.

The cumulative project list was developed for the purposes of this analysis through consultation with planning and engineering staff from the City of Chino. As shown on Table 3-14, the cumulative project list includes known and foreseeable projects that are anticipated to contribute emissions to the air basin in the vicinity of the Project.

Cumulative projects could contribute to an existing or projected air quality exceedance because the Basin is currently nonattainment for ozone, PM<sub>10</sub>, and PM<sub>2.5</sub>. As previously noted, the Project would result in emissions exceedances for NO<sub>x</sub>. As such, the Project would have the potential to result in a cumulatively considerable significant impact.

TABLE 3-14: CUMULATIVE DEVELOPMENT LIST

#	Project/Location	Land Use <sup>1</sup>	Quantity	Units <sup>2</sup>
<b>City of Chino</b>				
C1a	Bickmore Street Residential	SFDR	196	DU
C1b	TM 17611	SFDR	21	DU
C1c	TM 17612	SFDR	42	DU
C1d	TM17635	SFDR	67	DU
C1e	Bouma Residential	SFDR	106	DU
		Condo/Townhouse	94	DU
C1f	Kimball Business Park	Light Industrial	140.500	TSF
		Warehousing	564.000	TSF
		High-Cube Warehouse	352.000	TSF
		Business Park	146.550	TSF
C1g	Chino Parcel Delivery	Parcel Delivery Facility	765.274	TSF
C2	TM17574	Condo/Townhouse	108	DU
C3	Falloncrest at the Preserve	SFDR	204	DU
		Condo/Townhouse	786	DU
		Apartments	412	DU
		Shopping Center	77.597	TSF
		General Office	77.597	TSF
C4a	West Preserve (Barthelemy Project)	SFDR	193	DU
		Condo/Townhouse	198	DU
		Apartments	288	DU
		Youth Soccer	1	Field
C4b	TM18778	SFDR	65	DU
C5	PL11-0047	Apartments	135	DU
	TM 18873	Condo/Townhouse	149	DU
	TM 16838-2 PA 7B	SFDR	67	DU
C6	TM17898	SFDR	77	DU
	TM 17899	SFDR	66	DU
	PL 13-0435	SFDR	41	DU
C7	TM18848	Condo/Townhouse	101	DU
C8	TM17891	SFDR	75	DU
	TM 17890	SFDR	94	DU
	TM 18891	SFDR	118	DU
	TM 17892	SFDR	63	DU
	TM 17893	SFDR	34	DU
	TM 17894	SFDR	39	DU
	TM 17895	SFDR	19	DU
	TM 17896	SFDR	67	DU
	TM 17897	SFDR	93	DU
C9	PL11-0299	General Light Industrial	50.000	TSF
	PL13-0601	SFDR	209	DU
C10	South of Pine	SFDR	1,351	DU
		Condo/Townhouse	732	DU

		Apartments	670	DU
C11	Majestic Airport Center	High-Cube Warehouse	2,890.400	TSF
		Warehousing	180.000	TSF
		Specialty Retail	25.000	TSF
		Pharmacy/Drugstore with Drive-Thru	13.000	TSF
		Fast-Food with Drive-Thru	8.600	TSF
C12	PM18635	General Light Industrial	99.164	TSF
		High-Cube Warehouse	2,077.594	TSF
C13a	TM16420-1	Apartments	799	DU
C13b	TM 18890	Condo/Townhouse	94	DU
C13c	Lewis Residential	Apartments	400	DU
C14a	PM19368 (Chino East Industrial)	General Light Industrial	1,593.500	TSF
C14b	Watson Industrial Park	High-Cube Warehouse	3,889.900	TSF
C15a	PL 08-0334	Manufacturing	421.031	TSF
C15b	Hillwood @ Monte Vista Av./Schaefer Av.	Industrial	409.000	TSF
C15c	PL 10-0726	General Office	13.672	TSF
C15d	Yorba Avenue Commerce Center	High-Cube Warehouse	256.000	TSF
C16a	TM 18880	SFDR	33	DU
C16b	SEC Philadelphia/Ramona	Shopping Center	27.000	TSF
C16c	Chino Central Residential (PL13-0618)	SFDR	94	DU
	Central and Francis Residential	SFDR	113	DU
C16d	Pipeline and Norton Residential	SFDR	45	DU
C17	Brewart Residential	SFDR	127	DU
C18	Fern and Riverside Residential	SFDR	94	DU
C19a	Chino Riverside Residential	SFDR	59	DU
C19b	Borba Chino Residential	SFDR	84	DU
C20	Edgewater Communities	SFDR	415	DU
		Condo/Townhouse	659	DU
		Museum/Retail	6.500	TSF
		Church	15.200	TSF
		Park	15.0	AC
C21	Carson Industrial El Prado	High-Cube Warehouse	442.363	TSF
	Carson Mountain Industrial	High-Cube Warehouse	227.977	TSF
C22	Mill Creek	SFDR	1,074	DU
C23	DR Horton Brewer	SFDR	191	DU
C24a	Church	Church	47.979	TSF
		Daycare	190	STU
C24b	Flores Site	Shopping Center	4.000	TSF
		Gas Station w/ convenience store	16	VFP
		Express Car Wash	5.000	TSF
City of Chino Hills				
CH1	Country Club Villas	Condo/Townhouse	46	DU
CH2	Lago Los Serranos	Condo/Townhouse	95	DU
CH3	The Commons	Shopping Center	150.000	DU
CH4	The Golden Triangle	Shopping Center	106.700	TSF
CH5	Heritage Professional Center	Hospital	55.000	TSF
		Medical Office Building	86.952	TSF
		Hotel	120	RM



		Shopping Center	38.848	TSF
		Restaurant	7.200	TSF
CH6	Vista Bella Townhomes	Condo/Townhouse	65	DU
CH7	Vila Borba Specific Plan	SFDR	176	DU
<b>City of Eastvale</b>				
E1	14-1077 - Grainger Site (APN:156-050-025, 156-050-026, 156-020-027)	Industrial	546.000	TSF
E2	10-0117 (TM36373)	SFDR	51	DU
E3	10-0271 - Eastvale Commerce Center (Phase 1 and 2)	Shopping Center	249.000	TSF
		Hotel	130	RM
		High Cube Warehouse	3,100.000	TSF
		Business Park	610.000	TSF
E4	11-0354 - Arco Gas Station	Gas Station w/ convenience store and car wash	18.000	VFP
		Fast-Food w/o Drive-Thru	2.800	TSF
		Fast-Food with Drive-Thru	2.100	TSF
E5	The Marketplace at Enclave	Shopping Center	42.000	TSF
E6	Eastvale Shopping Center	Free-Standing Discount Superstore	192.000	TSF
		Specialty Retail	9.200	TSF
		Fast-Food Without Drive-Thru	7.200	TSF
		Coffee/Donut Shop w/ Drive Thru	2.000	TSF
		Fast-Food with Drive-Thru	3.500	TSF
		Gas Station w/ convenience store and car wash	16	VFP
E7	11-0363 TTM 36382 (Altfillisch Residential Project <sup>5</sup> )	SFDR	146	DU
E8	SP00358 - The Ranch at Eastvale	Shopping Center	267.200	TSF
		General Light Industrial	801.500	TSF
		Business Park	1,121.100	TSF
E9	SC Limonite, LLC	SFDR	330	TSF
E10	13-0395 - 65th Street Residential (Copper Sky)	SFDR	250	DU
E11	PP23219 (PM35865)	General Light Industrial	738.430	TSF
E12	Dairy Property	SFDR	119	DU
E13	TR35751	Condo/Townhouse	243	DU
E14	13-0632 - Sumner Residential (Stratham Homes)	SFDR	129	DU
E15	14-0046 - Kasbergen/William Lyons Homes	Condo/Townhouse	220	DU
E16	TR32821	Condo/Townhouse	350	DU
E17	TR32909	SFDR	140	DU
E18	10-0124 - TR31252 (The Lodge)	SFDR	205	DU
E19	TR29997	SFDR	122	DU
<b>City of Jurupa Valley</b>				
JV1	Silverlakes Equestrian <sup>6</sup>	Soccer Field	14	Fields
		Soccer Field	10	Fields
		Equestrian Facility	400	Stalls
JV2	TR33428	SFDR	338	DU
JV3	TR33258	SFDR	45	DU
JV4	CUP03555	Mini-Warehouse	141.460	TSF
JV5	CUP03488 (Self Storage)	Mini-Warehouse	89.642	TSF
JV6	TR35655	SFDR	9	DU
JV7	TR31644	SFDR	213	DU
	TR31768	SFDR	95	DU

	TR31778	SFDR	64	DU
	TR33461	SFDR	102	DU
	Thorobred Farms	High-Cube Warehouse	1,176.120	TSF
JV8	Ter Maaten (TTM No. 36391)	SFDR	468	DU
		Park	8.4	AC
JV9	Riverside Drive Development	General Light Industrial	167.020	TSF
JV10	6316 Wineville Av. (Daycare)	Daycare	40	STU
JV11	Vernola Marketplace Apartments	Apartments	597	DU
JV12	TR36692	SFDR	176	DU
	TR31768	SFDR	189	DU
	TR31778-1	SFDR	128	DU
	TR33461	SFDR	203	DU
	TR31644	SFDR	425	DU
JV13	PP23203	Industrial/Business Park	821.77	TSF
JV14	PP23390	Warehousing	78.31	TSF
JV15	PP23580	Fast-Food with Drive-Thru	1.832	TSF
JV16	PP24596	Warehousing	122.59	TSF
JV17	Galena Business Park (SDP31204)	General Light Industrial	173.39	TSF
JV18	Swift Transportation (ST00934)	General Office	8.000	TSF
<b>City of Ontario</b>				
O1	Countryside	SFDR	819	DU
O2	Edenglen	SFDR	310	DU
		Multi-Family Attached (Condo)	274	DU
		Shopping Center	217.520	TSF
		Business Park	550.000	TSF
O3	Esperanza	SFDR	914	DU
		Multi-Family Attached (Apartments)	496	DU
O4	Grand Park	SFDR	484	DU
		Multi-Family Attached (Apartments)	843	DU
O5	Parkside	SFDR	437	DU
		Multi-Family Attached (Apartments)	1,510	DU
		Shopping Center	115.000	TSF
O6	Rich Haven	SFDR	2,732	DU
		Multi-Family Attached (Condo)	1,524	DU
		Shopping Center	317.400	TSF
O7	Subarea 29 & Amendment	SFDR	2,149	DU
		Shopping Center	87.000	TSF
O8	The Avenue	SFDR	2,020	DU
		Multi-Family Attached (Apartments)	586	DU
		Shopping Center	250.000	TSF
O9	West Haven	SFDR	753	DU
		Shopping Center	87.000	TSF
O10	Tuscan Village	SFDR	176	DU
		Shopping Center	26.000	TSF
O11	PDEV10-011	SFDR	11	DU
O12	PDEV10-008 - Dry Food Storage	Mini-Warehouse	17.000	TSF
O13	PDEV08-008	Shopping Center	3.920	TSF
<b>City of Corona</b>				

COR1	Watermarke Properties	Apartments	450	DU
		Shopping Center	77.000	TSF
¹ SFDR = Single Family Detached Residential				
² TSF = Ten Thousand Square Feet; DU = Dwelling Unit; VFP = Vehicle Fueling Position ; AC = Acres				
³ Source: Eastvale South Trip Generation Analysis, Albert A. Webb Associates, May 27, 2011				
⁴ Source: Trip Generation Comparison for Cloverdale Marketplace, Phase II, Eastvale CA, Albert A. Webb Associates, August 15, 2011.				
⁵ Source: Altfillisch Residential Project TIA Memorandum, LSA Associates, Inc., July 25, 2011.				
⁶ Source: From Silverlakes TIA (Revised), Kunzman Associates, September 25, 2008.				

## 4 FINDINGS & CONCLUSIONS

### CONSTRUCTION-SOURCE EMISSIONS

#### *REGIONAL IMPACTS*

For regional emissions, the Project would not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutants. Therefore, a less than significant impact would occur for Project-related construction-source emissions.

#### *LOCALIZED IMPACTS*

For localized emissions, the Project would not exceed the SCAQMD's localized significance threshold for any criteria pollutant. Therefore, a less than significant impact would occur.

#### *ODORS*

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less-than-significant.

### OPERATIONAL-SOURCE EMISSIONS

#### *REGIONAL IMPACTS*

For regional emissions, the Project would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NO<sub>x</sub>. No feasible mitigation measures exist that would reduce these emissions to levels that are less-than-significant. Project operational-source NO<sub>x</sub> emissions exceedances of applicable SCAQMD regional thresholds are therefore considered significant and unavoidable.

#### *LOCALIZED IMPACTS*

For localized emissions, the Project would not exceed the numerical thresholds established by the SCAQMD for any criteria pollutants. The proposed Project would not result in a significant CO "hotspot" as a result of Project related traffic during ongoing operations.

Project operational-source emissions would have the potential to conflict with the applicable AQMP.

#### *ODORS*

Substantial odor-generating sources include land uses such as agricultural activities, feedlots, wastewater treatment facilities, landfills or various heavy industrial uses. The Project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential sources of operational odors generated by the Project would include

disposal of miscellaneous refuse. Moreover, SCAQMD Rule 402 acts to prevent occurrences of odor nuisances (1). Consistent with City requirements, all Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with solid waste regulations. Potential operational-source odor impacts are therefore considered less-than-significant.

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## 5 CERTIFICATION

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Chino Parcel Delivery Project. The information contained in this air quality impact report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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### PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners  
AWMA – Air and Waste Management Association  
ASTM – American Society for Testing and Materials

### PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013  
Planned Communities and Urban Infill – Urban Land Institute • June, 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008  
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## **APPENDIX 3.1:**

### **STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS**

**TABLE 2-3**  
National Ambient Air Quality Standards (NAAQS) Attainment Status - South Coast Air Basin

Criteria Pollutant	Averaging Time	Designation <sup>a</sup>	Attainment Date <sup>b</sup>
<b>Ozone (O<sub>3</sub>)</b>	(1979) <b>1-Hour</b> (0.12 ppm) <sup>c</sup>	Nonattainment (“extreme”)	2/26/2023 (revised deadline)
	(2015) <b>8-Hour</b> (0.070 ppm) <sup>d</sup>	Pending – Expect Nonattainment (“extreme”)	Pending (beyond 2032)
	(2008) <b>8-Hour</b> (0.075 ppm) <sup>d</sup>	Nonattainment (“extreme”)	7/20/2032
	(1997) <b>8-Hour</b> (0.08 ppm) <sup>d</sup>	Nonattainment (“extreme”)	6/15/2024
<b>PM<sub>2.5</sub><sup>e</sup></b>	(2006) <b>24-Hour</b> (35 µg/m <sup>3</sup> )	Nonattainment (“serious”)	12/31/2019
	(2012) <b>Annual</b> (12.0 µg/m <sup>3</sup> )	Nonattainment (“moderate”)	12/31/2021
	(1997) <b>Annual</b> (15.0 µg/m <sup>3</sup> )	Attainment (final determination pending)	4/5/2015 (attained 2013)
<b>PM<sub>10</sub><sup>f</sup></b>	(1987) <b>24-hour</b> (150 µg/m <sup>3</sup> )	Attainment (Maintenance)	7/26/2013 (attained)
<b>Lead (Pb)<sup>g</sup></b>	(2008) <b>3-Months Rolling</b> (0.15 µg/m <sup>3</sup> )	Nonattainment (Partial) (Attainment determination to be requested)	12/31/2015
<b>CO</b>	(1971) <b>1-Hour</b> (35 ppm)	Attainment (Maintenance)	6/11/2007 (attained)
	(1971) <b>8-Hour</b> (9 ppm)	Attainment (Maintenance)	6/11/2007 (attained)
<b>NO<sub>2</sub><sup>h</sup></b>	(2010) <b>1-Hour</b> (100 ppb)	Unclassifiable/Attainment	N/A (attained)
	(1971) <b>Annual</b> (0.053 ppm)	Attainment (Maintenance)	9/22/1998 (attained)
<b>SO<sub>2</sub><sup>i</sup></b>	(2010) <b>1-Hour</b> (75 ppb)	Designations Pending (expect Unclassifiable/Attainment)	N/A (attained)
	(1971) <b>24-Hour</b> (0.14 ppm) (1971) <b>Annual</b> (0.03 ppm)	Unclassifiable/Attainment	3/19/1979 (attained)

- a) U.S. EPA often only declares Nonattainment areas; everywhere else is listed as Unclassifiable/Attainment or Unclassifiable
- b) A design value below the NAAQS for data through the full year or smog season prior to the attainment date is typically required for an attainment demonstration
- c) The 1979 1-hour ozone NAAQS (0.12 ppm) was revoked, effective 6/15/05 ; however, the Basin has not attained this standard and therefore has some continuing obligations with respect to the revoked standard; original attainment date was 11/15/2010; the revised attainment date is 2/6/23
- d) The 2008 8-hour ozone NAAQS (0.075 ppm) was revised to 0.070 ppm, effective 12/28/15 with classifications and implementation goals to be finalized by 10/1/17; the 1997 8-hour ozone NAAQS (0.08 ppm) was revoked in the 2008 ozone NAAQS implementation rule, effective 4/6/15; there are continuing obligations under the revoked 1997 and revised 2008 ozone NAAQS until they are attained
- e) The attainment deadline for the 2006 24-hour PM<sub>2.5</sub> NAAQS was 12/31/15 for the former “moderate” classification; U.S.EPA approved reclassification to “serious,” effective 2/12/16 with an attainment deadline of 12/31/2019; the 2012 (proposal year) annual PM<sub>2.5</sub> NAAQS was revised on 1/15/13, effective 3/18/13, from 15 to 12 µg/m<sup>3</sup>; new annual designations were final 1/15/15, effective 4/15/15; on July 25, 2016 U.S. EPA finalized a determination that the Basin attained the 1997 annual (15.0 µg/m<sup>3</sup>) and 24-hour PM<sub>2.5</sub> (65 µg/m<sup>3</sup>) NAAQS, effective August 24, 2016
- f) The annual PM<sub>10</sub> NAAQS was revoked, effective 12/18/06; the 24-hour PM<sub>10</sub> NAAQS deadline was 12/31/2006; the Basin’s Attainment Re-designation Request and PM<sub>10</sub> Maintenance Plan was approved by U.S. EPA on 6/26/13, effective 7/26/13
- g) Partial Nonattainment designation – Los Angeles County portion of the Basin only for near-source monitors; expect to remain in attainment based on current monitoring data; attainment re-designation request pending
- h) New 1-hour NO<sub>2</sub> NAAQS became effective 8/2/10, with attainment designations 1/20/12; annual NO<sub>2</sub> NAAQS retained
- i) The 1971 annual and 24-hour SO<sub>2</sub> NAAQS were revoked, effective 8/23/10; however, these 1971 standards will remain in effect until one year after U.S. EPA promulgates area designations for the 2010 SO<sub>2</sub> 1-hour NAAQS; final area designations expected by 12/31/20 due to new source-specific monitoring requirements; Basin expected to be in attainment due to ongoing clean data

**TABLE 2-4**  
National Ambient Air Quality Standards (NAAQS) Attainment Status  
Coachella Valley Portion of the Salton Sea Air Basin

Criteria Pollutant	Averaging Time	Designation <sup>a</sup>	Attainment Date <sup>b</sup>
<b>Ozone (O<sub>3</sub>)</b>	(1979) <b>1-Hour</b> (0.12 ppm) <sup>c</sup>	Attainment	11/15/2007 (attained 12/31/2013)
	(2015) <b>8-Hour</b> (0.070 ppm) <sup>d</sup>	Pending – Expect Nonattainment (Severe)	Pending
	(2008) <b>8-Hour</b> (0.075 ppm) <sup>d</sup>	Nonattainment (Severe-15)	7/20/2027
	(1997) <b>8-Hour</b> (0.08 ppm) <sup>d</sup>	Nonattainment (Severe-15)	6/15/2019
<b>PM<sub>2.5</sub><sup>e</sup></b>	(2006) <b>24-Hour</b> (35 µg/m <sup>3</sup> )	Unclassifiable/Attainment	N/A (attained)
	(2012) <b>Annual</b> (12.0 µg/m <sup>3</sup> )	Unclassifiable/Attainment	N/A (attained)
	(1997) <b>Annual</b> (15.0 µg/m <sup>3</sup> )	Unclassifiable/Attainment	N/A (attained)
<b>PM<sub>10</sub><sup>f</sup></b>	(1987) <b>24-hour</b> (150 µg/m <sup>3</sup> )	Nonattainment (“serious”)	12/31/2006
<b>Lead (Pb)</b>	(2008) <b>3-Months Rolling</b> (0.15 µg/m <sup>3</sup> )	Unclassifiable/Attainment	Unclassifiable/ Attainment
<b>CO</b>	(1971) <b>1-Hour</b> (35 ppm)	Unclassifiable/Attainment	N/A (attained)
	(1971) <b>8-Hour</b> (9 ppm)	Unclassifiable/Attainment	N/A (attained)
<b>NO<sub>2</sub><sup>g</sup></b>	(2010) <b>1-Hour</b> (100 ppb)	Unclassifiable/Attainment	N/A (attained)
	(1971) <b>Annual</b> (0.053 ppm)	Unclassifiable/Attainment	N/A (attained)
<b>SO<sub>2</sub><sup>h</sup></b>	(2010) <b>1-Hour</b> (75 ppb)	Designations Pending	N/A
	(1971) <b>24-Hour</b> (0.14 ppm)	Unclassifiable/Attainment	Unclassifiable/ Attainment
	(1971) <b>Annual</b> (0.03 ppm)		

- a) U.S. EPA often only declares Nonattainment areas; everywhere else is listed as Unclassifiable/Attainment or Unclassifiable
- b) A design value below the NAAQS for data through the full year or smog season prior to the attainment date is typically required for an attainment demonstration
- c) The 1979 1-hour ozone NAAQS (0.12 ppm) was revoked, effective 6/15/05; the Southeast Desert Modified Air Quality Management Area, including the Coachella Valley, had not timely attained this standard by the 11/15/07 “severe-17” deadline, based on 2005-2007 data; on 8/25/14, U.S. EPA proposed a clean data finding based on 2011–2013 data and a determination of attainment for the former 1-hour ozone NAAQS for the Southeast Desert nonattainment area; this rule was finalized by U.S. EPA on 4/15/15, effective 5/15/15, that included preliminary 2014 data
- d) The 2008 8-hour ozone NAAQS (0.075 ppm) was revised to 0.070 ppm, effective 12/28/15 with classifications and implementation goals to be finalized by 10/1/17; the 1997 8-hour ozone NAAQS (0.08 ppm) was revoked in the 2008 ozone NAAQS implementation rule, effective 4/6/15; there are continuing obligations under the 1997 and 2008 ozone NAAQS until they are attained
- e) The annual PM<sub>2.5</sub> standard was revised on 1/15/13, effective 3/18/13, from 15 to 12 µg/m<sup>3</sup>
- f) The annual PM<sub>10</sub> standard was revoked, effective 12/18/06; the 24-hour PM<sub>10</sub> NAAQS attainment deadline was 12/31/2006; the Coachella Valley Attainment Re-designation Request and PM<sub>10</sub> Maintenance Plan was postponed by U.S. EPA pending additional monitoring and analysis in the southeastern Coachella Valley
- g) New 1-hour NO<sub>2</sub> NAAQS became effective 8/2/10; attainment designations 1/20/12; annual NO<sub>2</sub> NAAQS retained
- h) The 1971 Annual and 24-hour SO<sub>2</sub> NAAQS were revoked, effective 8/23/10; however, these 1971 standards will remain in effect until one year after U.S. EPA promulgates area designations for the 2010 SO<sub>2</sub> 1-hour standard; final area designations expected by 12/31/2020 with SSAB expected to be designated Unclassifiable/Attainment

The current status of CAAQS attainment for the pollutants with State standards is presented in Table 2-5 for the Basin and the Riverside County portion of the SSAB (Coachella Valley).

TABLE 2-5

California Ambient Air Quality Standards (CAAQS) Attainment Status  
South Coast Air Basin and Coachella Valley portion of Salton Sea Air Basin

Pollutant	Averaging Time and Level <sup>b</sup>	Designation <sup>a</sup>	
		South Coast Air Basin	Coachella Valley
Ozone (O <sub>3</sub> )	1-Hour (0.09 ppm) <sup>c</sup>	Nonattainment	Nonattainment
	8-Hour (0.070 ppm) <sup>d</sup>	Nonattainment	Nonattainment
PM2.5	Annual (12.0 µg/m <sup>3</sup> )	Nonattainment	Attainment
PM10	24-Hour (50 µg/m <sup>3</sup> )	Nonattainment	Nonattainment
	Annual (20 µg/m <sup>3</sup> )	Nonattainment	Nonattainment
Lead (Pb)	30-Day Average (1.5 µg/m <sup>3</sup> )	Attainment	Attainment
CO	1-Hour (20 ppm)	Attainment	Attainment
	8-Hour (9.0 ppm)	Attainment	Attainment
NO <sub>2</sub>	1-Hour (0.18 ppm)	Attainment	Attainment
	Annual (0.030 ppm)	Attainment	Attainment
SO <sub>2</sub>	1-Hour (0.25 ppm)	Attainment	Attainment
	24-Hour (0.04 ppm)	Attainment	Attainment
Sulfates	24-Hour (25 µg/m <sup>3</sup> )	Attainment	Attainment
H <sub>2</sub> S <sup>c</sup>	1-Hour (0.03 ppm)	Unclassified	Unclassified <sup>c)</sup>

- a) CA State designations shown were updated by CARB in 2016, based on the 2013–2015 3-year period; stated designations are based on a 3-year data period after consideration of outliers and exceptional events; Source: <http://www.arb.ca.gov/desig/statedesig.htm#current>
- b) CA State standards, or CAAQS, for ozone, CO, SO<sub>2</sub>, NO<sub>2</sub>, PM10 and PM2.5 are values not to be exceeded; lead, sulfates, and H<sub>2</sub>S standards are values not to be equaled or exceeded; CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations
- c) SCAQMD began monitoring H<sub>2</sub>S in the southeastern Coachella Valley in November 2013 due to odor events related to the Salton Sea; three full years of data are not yet available for a State designation, but nonattainment is anticipated for the H<sub>2</sub>S CAAQS in at least part of the Coachella Valley

The 1979 federal 1-hour ozone standard (0.12 ppm) was revoked by the U.S. EPA and replaced by the 8-hour average ozone standard (0.08 ppm), effective June 15, 2005. However, the Basin and the former Southeast Desert Modified Air Quality Management Area (which included the Coachella Valley) had not attained the 1-hour federal ozone NAAQS by the attainment dates in 2010 and 2007, respectively, and, therefore, had continuing obligations under the former standard. On August 25, 2014, U.S. EPA

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## **APPENDIX 3.2:**

### **CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**Chino Parcel Delivery (Construction - Unmitigated)**  
**San Bernardino-South Coast County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	502.81	1000sqft	11.54	502,810.00	0
Other Asphalt Surfaces	4,266.76	1000sqft	51.61	4,266,760.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

## Project Characteristics -

Land Use - Total Building (SF) is the sum of 476,285 SF Unrefrigerated Warehouse No-Rail use (Parcel Delivery Building) and 26,529 SF of ancillary building use.

Construction Phase - Construction Schedule adjusted to be consistent with Operational Year.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Trips and VMT - Trips adjusted

Demolition -

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	1,110.00	250.00
tblConstructionPhase	NumDays	110.00	200.00
tblConstructionPhase	NumDays	75.00	125.00
tblConstructionPhase	NumDays	40.00	20.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	10,000.00
tblLandUse	LotAcreage	97.95	51.61
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	472.64	0.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	782.00	250.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	50.00
tblTripsAndVMT	WorkerTripNumber	2,003.00	250.00
tblTripsAndVMT	WorkerTripNumber	401.00	50.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	116,274,812.50	0.00

## 2.0 Emissions Summary

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## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.2527	73.9798	25.1379	0.0638	20.5038	3.1356	23.6394	10.2463	2.8853	13.1316	0.0000	6,440.785 2	6,440.785 2	1.8341	0.0000	6,486.638 6
2019	6.0654	70.3350	36.1372	0.1350	20.5038	2.9865	23.4903	10.2463	2.7481	12.9943	0.0000	13,727.21 04	13,727.21 04	2.3211	0.0000	13,771.19 11
2020	73.8268	87.1206	54.8743	0.1840	5.5385	2.7160	8.2545	1.5147	2.5389	4.0536	0.0000	18,553.37 24	18,553.37 24	2.6135	0.0000	18,618.70 97
Maximum	73.8268	87.1206	54.8743	0.1840	20.5038	3.1356	23.6394	10.2463	2.8853	13.1316	0.0000	18,553.37 24	18,553.37 24	2.6135	0.0000	18,618.70 97

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.2527	73.9798	25.1379	0.0638	8.1895	3.1356	11.3251	4.0488	2.8853	6.9342	0.0000	6,440.785 2	6,440.785 2	1.8341	0.0000	6,486.638 6
2019	6.0654	70.3350	36.1372	0.1350	8.1895	2.9865	11.1760	4.0488	2.7481	6.7969	0.0000	13,727.21 04	13,727.21 04	2.3211	0.0000	13,771.19 11
2020	73.8268	87.1206	54.8743	0.1840	5.5385	2.7160	8.2545	1.5147	2.5389	4.0536	0.0000	18,553.37 24	18,553.37 24	2.6135	0.0000	18,618.70 97
Maximum	73.8268	87.1206	54.8743	0.1840	8.1895	3.1356	11.3251	4.0488	2.8853	6.9342	0.0000	18,553.37 24	18,553.37 24	2.6135	0.0000	18,618.70 97

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.91	0.00	44.47	56.32	0.00	41.07	0.00	0.00	0.00	0.00	0.00	0.00

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.1151	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>13.1151</b>	<b>4.5300e-003</b>	<b>0.4901</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.0438</b>	<b>1.0438</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>1.1138</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.1151	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>13.1151</b>	<b>4.5300e-003</b>	<b>0.4901</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.0438</b>	<b>1.0438</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>1.1138</b>



## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	12/20/2018	5	70	
2	Site Preparation	Site Preparation	12/21/2018	1/17/2019	5	20	
3	Grading	Grading	1/18/2019	10/24/2019	5	200	
4	Building Construction	Building Construction	10/25/2019	10/8/2020	5	250	
5	Paving	Paving	7/9/2020	12/30/2020	5	125	
6	Architectural Coating	Architectural Coating	8/27/2020	12/30/2020	5	90	

**Acres of Grading (Site Preparation Phase): 40****Acres of Grading (Grading Phase): 700****Acres of Paving: 51.61****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 754,215; Non-Residential Outdoor: 251,405; Striped Parking Area: 256,006 (Architectural Coating – sqft)****OffRoad Equipment**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	15.00	46.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	20.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	250.00	250.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	15.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1412	0.0000	0.1412	0.0214	0.0000	0.0214			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>	<b>0.1412</b>	<b>1.9386</b>	<b>2.0797</b>	<b>0.0214</b>	<b>1.8048</b>	<b>1.8262</b>		<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2018****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.8900e-003	0.1864	0.0302	5.1000e-004	0.0115	6.6000e-004	0.0122	3.1500e-003	6.3000e-004	3.7800e-003		54.5220	54.5220	3.3200e-003		54.6050
Vendor	0.0633	1.8306	0.4493	3.9900e-003	0.0961	0.0129	0.1090	0.0277	0.0124	0.0400		419.7436	419.7436	0.0329		420.5664
Worker	0.0976	0.0709	0.6959	1.6300e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		162.4845	162.4845	5.8700e-003		162.6312
<b>Total</b>	<b>0.1658</b>	<b>2.0879</b>	<b>1.1755</b>	<b>6.1300e-003</b>	<b>0.2752</b>	<b>0.0148</b>	<b>0.2900</b>	<b>0.0753</b>	<b>0.0141</b>	<b>0.0894</b>		<b>636.7500</b>	<b>636.7500</b>	<b>0.0421</b>		<b>637.8026</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0551	0.0000	0.0551	8.3400e-003	0.0000	8.3400e-003			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>	<b>0.0551</b>	<b>1.9386</b>	<b>1.9936</b>	<b>8.3400e-003</b>	<b>1.8048</b>	<b>1.8132</b>	<b>0.0000</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2018****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.8900e-003	0.1864	0.0302	5.1000e-004	0.0115	6.6000e-004	0.0122	3.1500e-003	6.3000e-004	3.7800e-003		54.5220	54.5220	3.3200e-003		54.6050
Vendor	0.0633	1.8306	0.4493	3.9900e-003	0.0961	0.0129	0.1090	0.0277	0.0124	0.0400		419.7436	419.7436	0.0329		420.5664
Worker	0.0976	0.0709	0.6959	1.6300e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		162.4845	162.4845	5.8700e-003		162.6312
<b>Total</b>	<b>0.1658</b>	<b>2.0879</b>	<b>1.1755</b>	<b>6.1300e-003</b>	<b>0.2752</b>	<b>0.0148</b>	<b>0.2900</b>	<b>0.0753</b>	<b>0.0141</b>	<b>0.0894</b>		<b>636.7500</b>	<b>636.7500</b>	<b>0.0421</b>		<b>637.8026</b>

**3.3 Site Preparation - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					20.1873	0.0000	20.1873	10.1597	0.0000	10.1597			0.0000			0.0000
Off-Road	6.0597	71.6980	23.7636	0.0570		3.1187	3.1187		2.8692	2.8692		5,742.1116	5,742.1116	1.7876		5,786.8015
<b>Total</b>	<b>6.0597</b>	<b>71.6980</b>	<b>23.7636</b>	<b>0.0570</b>	<b>20.1873</b>	<b>3.1187</b>	<b>23.3060</b>	<b>10.1597</b>	<b>2.8692</b>	<b>13.0289</b>		<b>5,742.1116</b>	<b>5,742.1116</b>	<b>1.7876</b>		<b>5,786.8015</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 2018****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0759	2.1968	0.5392	4.7800e-003	0.1153	0.0155	0.1308	0.0332	0.0148	0.0480		503.6923	503.6923	0.0395		504.6796
Worker	0.1171	0.0851	0.8351	1.9600e-003	0.2012	1.4000e-003	0.2026	0.0534	1.2900e-003	0.0547		194.9814	194.9814	7.0400e-003		195.1575
<b>Total</b>	<b>0.1930</b>	<b>2.2818</b>	<b>1.3743</b>	<b>6.7400e-003</b>	<b>0.3165</b>	<b>0.0169</b>	<b>0.3334</b>	<b>0.0866</b>	<b>0.0161</b>	<b>0.1027</b>		<b>698.6736</b>	<b>698.6736</b>	<b>0.0465</b>		<b>699.8371</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.8730	0.0000	7.8730	3.9623	0.0000	3.9623			0.0000			0.0000
Off-Road	6.0597	71.6980	23.7636	0.0570		3.1187	3.1187		2.8692	2.8692	0.0000	5,742.1116	5,742.1116	1.7876		5,786.8015
<b>Total</b>	<b>6.0597</b>	<b>71.6980</b>	<b>23.7636</b>	<b>0.0570</b>	<b>7.8730</b>	<b>3.1187</b>	<b>10.9917</b>	<b>3.9623</b>	<b>2.8692</b>	<b>6.8315</b>	<b>0.0000</b>	<b>5,742.1116</b>	<b>5,742.1116</b>	<b>1.7876</b>		<b>5,786.8015</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 2018****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0759	2.1968	0.5392	4.7800e-003	0.1153	0.0155	0.1308	0.0332	0.0148	0.0480		503.6923	503.6923	0.0395		504.6796
Worker	0.1171	0.0851	0.8351	1.9600e-003	0.2012	1.4000e-003	0.2026	0.0534	1.2900e-003	0.0547		194.9814	194.9814	7.0400e-003		195.1575
<b>Total</b>	<b>0.1930</b>	<b>2.2818</b>	<b>1.3743</b>	<b>6.7400e-003</b>	<b>0.3165</b>	<b>0.0169</b>	<b>0.3334</b>	<b>0.0866</b>	<b>0.0161</b>	<b>0.1027</b>		<b>698.6736</b>	<b>698.6736</b>	<b>0.0465</b>		<b>699.8371</b>

**3.3 Site Preparation - 2019****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					20.1873	0.0000	20.1873	10.1597	0.0000	10.1597			0.0000			0.0000
Off-Road	5.8450	68.1996	23.1708	0.0570		2.9720	2.9720		2.7343	2.7343		5,645.4173	5,645.4173	1.7862		5,690.0710
<b>Total</b>	<b>5.8450</b>	<b>68.1996</b>	<b>23.1708</b>	<b>0.0570</b>	<b>20.1873</b>	<b>2.9720</b>	<b>23.1593</b>	<b>10.1597</b>	<b>2.7343</b>	<b>12.8940</b>		<b>5,645.4173</b>	<b>5,645.4173</b>	<b>1.7862</b>		<b>5,690.0710</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 2019****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0678	2.0608	0.4846	4.7300e-003	0.1153	0.0131	0.1284	0.0332	0.0126	0.0458		498.5083	498.5083	0.0387		499.4751
Worker	0.1066	0.0747	0.7388	1.8900e-003	0.2012	1.3500e-003	0.2026	0.0534	1.2500e-003	0.0546		188.3485	188.3485	6.1800e-003		188.5030
<b>Total</b>	<b>0.1743</b>	<b>2.1355</b>	<b>1.2235</b>	<b>6.6200e-003</b>	<b>0.3165</b>	<b>0.0145</b>	<b>0.3310</b>	<b>0.0866</b>	<b>0.0138</b>	<b>0.1004</b>		<b>686.8568</b>	<b>686.8568</b>	<b>0.0449</b>		<b>687.9781</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.8730	0.0000	7.8730	3.9623	0.0000	3.9623			0.0000			0.0000
Off-Road	5.8450	68.1996	23.1708	0.0570		2.9720	2.9720		2.7343	2.7343	0.0000	5,645.4173	5,645.4173	1.7862		5,690.0710
<b>Total</b>	<b>5.8450</b>	<b>68.1996</b>	<b>23.1708</b>	<b>0.0570</b>	<b>7.8730</b>	<b>2.9720</b>	<b>10.8451</b>	<b>3.9623</b>	<b>2.7343</b>	<b>6.6965</b>	<b>0.0000</b>	<b>5,645.4173</b>	<b>5,645.4173</b>	<b>1.7862</b>		<b>5,690.0710</b>



## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.3 Site Preparation - 2019****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0678	2.0608	0.4846	4.7300e-003	0.1153	0.0131	0.1284	0.0332	0.0126	0.0458		498.5083	498.5083	0.0387		499.4751
Worker	0.1066	0.0747	0.7388	1.8900e-003	0.2012	1.3500e-003	0.2026	0.0534	1.2500e-003	0.0546		188.3485	188.3485	6.1800e-003		188.5030
<b>Total</b>	<b>0.1743</b>	<b>2.1355</b>	<b>1.2235</b>	<b>6.6200e-003</b>	<b>0.3165</b>	<b>0.0145</b>	<b>0.3310</b>	<b>0.0866</b>	<b>0.0138</b>	<b>0.1004</b>		<b>686.8568</b>	<b>686.8568</b>	<b>0.0449</b>		<b>687.9781</b>

**3.4 Grading - 2019****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.7395	0.0000	9.7395	3.7119	0.0000	3.7119			0.0000			0.0000
Off-Road	5.4939	65.8336	33.9306	0.0715		2.6735	2.6735		2.4596	2.4596		7,079.5017	7,079.5017	2.2399		7,135.4987
<b>Total</b>	<b>5.4939</b>	<b>65.8336</b>	<b>33.9306</b>	<b>0.0715</b>	<b>9.7395</b>	<b>2.6735</b>	<b>12.4130</b>	<b>3.7119</b>	<b>2.4596</b>	<b>6.1715</b>		<b>7,079.5017</b>	<b>7,079.5017</b>	<b>2.2399</b>		<b>7,135.4987</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.4 Grading - 2019****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0437	1.6610	0.2740	4.8300e-003	0.1094	5.6300e-003	0.1150	0.0300	5.3900e-003	0.0354		512.2160	512.2160	0.0313		512.9992
Vendor	0.0753	2.2897	0.5385	5.2600e-003	0.1281	0.0146	0.1427	0.0369	0.0140	0.0509		553.8981	553.8981	0.0430		554.9724
Worker	0.1184	0.0830	0.8209	2.1000e-003	0.2236	1.5000e-003	0.2251	0.0593	1.3800e-003	0.0607		209.2761	209.2761	6.8700e-003		209.4478
<b>Total</b>	<b>0.2375</b>	<b>4.0338</b>	<b>1.6334</b>	<b>0.0122</b>	<b>0.4610</b>	<b>0.0217</b>	<b>0.4828</b>	<b>0.1262</b>	<b>0.0207</b>	<b>0.1469</b>		<b>1,275.390 2</b>	<b>1,275.390 2</b>	<b>0.0812</b>		<b>1,277.419 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7984	0.0000	3.7984	1.4476	0.0000	1.4476			0.0000			0.0000
Off-Road	5.4939	65.8336	33.9306	0.0715		2.6735	2.6735		2.4596	2.4596	0.0000	7,079.501 7	7,079.501 7	2.2399		7,135.498 7
<b>Total</b>	<b>5.4939</b>	<b>65.8336</b>	<b>33.9306</b>	<b>0.0715</b>	<b>3.7984</b>	<b>2.6735</b>	<b>6.4719</b>	<b>1.4476</b>	<b>2.4596</b>	<b>3.9072</b>	<b>0.0000</b>	<b>7,079.501 7</b>	<b>7,079.501 7</b>	<b>2.2399</b>		<b>7,135.498 7</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.4 Grading - 2019****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0437	1.6610	0.2740	4.8300e-003	0.1094	5.6300e-003	0.1150	0.0300	5.3900e-003	0.0354		512.2160	512.2160	0.0313		512.9992
Vendor	0.0753	2.2897	0.5385	5.2600e-003	0.1281	0.0146	0.1427	0.0369	0.0140	0.0509		553.8981	553.8981	0.0430		554.9724
Worker	0.1184	0.0830	0.8209	2.1000e-003	0.2236	1.5000e-003	0.2251	0.0593	1.3800e-003	0.0607		209.2761	209.2761	6.8700e-003		209.4478
<b>Total</b>	<b>0.2375</b>	<b>4.0338</b>	<b>1.6334</b>	<b>0.0122</b>	<b>0.4610</b>	<b>0.0217</b>	<b>0.4828</b>	<b>0.1262</b>	<b>0.0207</b>	<b>0.1469</b>		<b>1,275.390 2</b>	<b>1,275.390 2</b>	<b>0.0812</b>		<b>1,277.419 3</b>

**3.5 Building Construction - 2019****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6440	39.6763	19.1447	0.0430		1.8165	1.8165		1.6972	1.6972		4,187.533 0	4,187.533 0	1.1363		4,215.939 9
<b>Total</b>	<b>3.6440</b>	<b>39.6763</b>	<b>19.1447</b>	<b>0.0430</b>		<b>1.8165</b>	<b>1.8165</b>		<b>1.6972</b>	<b>1.6972</b>		<b>4,187.533 0</b>	<b>4,187.533 0</b>	<b>1.1363</b>		<b>4,215.939 9</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.5 Building Construction - 2019****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9415	28.6215	6.7310	0.0657	1.6012	0.1824	1.7837	0.4611	0.1745	0.6356		6,923.726 1	6,923.726 1	0.5371		6,937.154 3
Worker	1.4799	1.0381	10.2615	0.0263	2.7944	0.0188	2.8132	0.7411	0.0173	0.7584		2,615.951 4	2,615.951 4	0.0858		2,618.096 9
<b>Total</b>	<b>2.4214</b>	<b>29.6595</b>	<b>16.9925</b>	<b>0.0920</b>	<b>4.3956</b>	<b>0.2012</b>	<b>4.5969</b>	<b>1.2022</b>	<b>0.1918</b>	<b>1.3940</b>		<b>9,539.677 5</b>	<b>9,539.677 5</b>	<b>0.6230</b>		<b>9,555.251 2</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6440	39.6763	19.1447	0.0430		1.8165	1.8165		1.6972	1.6972	0.0000	4,187.533 0	4,187.533 0	1.1363		4,215.939 9
<b>Total</b>	<b>3.6440</b>	<b>39.6763</b>	<b>19.1447</b>	<b>0.0430</b>		<b>1.8165</b>	<b>1.8165</b>		<b>1.6972</b>	<b>1.6972</b>	<b>0.0000</b>	<b>4,187.533 0</b>	<b>4,187.533 0</b>	<b>1.1363</b>		<b>4,215.939 9</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.5 Building Construction - 2019****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9415	28.6215	6.7310	0.0657	1.6012	0.1824	1.7837	0.4611	0.1745	0.6356		6,923.726 1	6,923.726 1	0.5371		6,937.154 3
Worker	1.4799	1.0381	10.2615	0.0263	2.7944	0.0188	2.8132	0.7411	0.0173	0.7584		2,615.951 4	2,615.951 4	0.0858		2,618.096 9
<b>Total</b>	<b>2.4214</b>	<b>29.6595</b>	<b>16.9925</b>	<b>0.0920</b>	<b>4.3956</b>	<b>0.2012</b>	<b>4.5969</b>	<b>1.2022</b>	<b>0.1918</b>	<b>1.3940</b>		<b>9,539.677 5</b>	<b>9,539.677 5</b>	<b>0.6230</b>		<b>9,555.251 2</b>

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3632	36.6770	18.6286	0.0430		1.6373	1.6373		1.5290	1.5290		4,114.559 7	4,114.559 7	1.1279		4,142.756 6
<b>Total</b>	<b>3.3632</b>	<b>36.6770</b>	<b>18.6286</b>	<b>0.0430</b>		<b>1.6373</b>	<b>1.6373</b>		<b>1.5290</b>	<b>1.5290</b>		<b>4,114.559 7</b>	<b>4,114.559 7</b>	<b>1.1279</b>		<b>4,142.756 6</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.5 Building Construction - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8004	26.1682	5.9591	0.0652	1.6012	0.1229	1.7241	0.4611	0.1176	0.5787		6,875.0027	6,875.0027	0.5137		6,887.8441
Worker	1.3652	0.9214	9.2406	0.0255	2.7944	0.0183	2.8127	0.7411	0.0169	0.7580		2,534.3745	2,534.3745	0.0757		2,536.2659
<b>Total</b>	<b>2.1656</b>	<b>27.0897</b>	<b>15.1997</b>	<b>0.0907</b>	<b>4.3956</b>	<b>0.1413</b>	<b>4.5369</b>	<b>1.2021</b>	<b>0.1345</b>	<b>1.3366</b>		<b>9,409.3772</b>	<b>9,409.3772</b>	<b>0.5893</b>		<b>9,424.1100</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3632	36.6770	18.6286	0.0430		1.6373	1.6373		1.5290	1.5290	0.0000	4,114.5597	4,114.5597	1.1279		4,142.7566
<b>Total</b>	<b>3.3632</b>	<b>36.6770</b>	<b>18.6286</b>	<b>0.0430</b>		<b>1.6373</b>	<b>1.6373</b>		<b>1.5290</b>	<b>1.5290</b>	<b>0.0000</b>	<b>4,114.5597</b>	<b>4,114.5597</b>	<b>1.1279</b>		<b>4,142.7566</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.5 Building Construction - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8004	26.1682	5.9591	0.0652	1.6012	0.1229	1.7241	0.4611	0.1176	0.5787		6,875.0027	6,875.0027	0.5137		6,887.8441
Worker	1.3652	0.9214	9.2406	0.0255	2.7944	0.0183	2.8127	0.7411	0.0169	0.7580		2,534.3745	2,534.3745	0.0757		2,536.2659
<b>Total</b>	<b>2.1656</b>	<b>27.0897</b>	<b>15.1997</b>	<b>0.0907</b>	<b>4.3956</b>	<b>0.1413</b>	<b>4.5369</b>	<b>1.2021</b>	<b>0.1345</b>	<b>1.3366</b>		<b>9,409.3772</b>	<b>9,409.3772</b>	<b>0.5893</b>		<b>9,424.1100</b>

**3.6 Paving - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	1.0818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.4383</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.6 Paving - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0480	1.5701	0.3576	3.9100e-003	0.0961	7.3800e-003	0.1035	0.0277	7.0600e-003	0.0347		412.5002	412.5002	0.0308		413.2707
Worker	0.0819	0.0553	0.5544	1.5300e-003	0.1677	1.1000e-003	0.1688	0.0445	1.0100e-003	0.0455		152.0625	152.0625	4.5400e-003		152.1760
<b>Total</b>	<b>0.1299</b>	<b>1.6254</b>	<b>0.9120</b>	<b>5.4400e-003</b>	<b>0.2637</b>	<b>8.4800e-003</b>	<b>0.2722</b>	<b>0.0721</b>	<b>8.0700e-003</b>	<b>0.0802</b>		<b>564.5626</b>	<b>564.5626</b>	<b>0.0354</b>		<b>565.4466</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	1.0818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.4383</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>



## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.6 Paving - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0480	1.5701	0.3576	3.9100e-003	0.0961	7.3800e-003	0.1035	0.0277	7.0600e-003	0.0347		412.5002	412.5002	0.0308		413.2707
Worker	0.0819	0.0553	0.5544	1.5300e-003	0.1677	1.1000e-003	0.1688	0.0445	1.0100e-003	0.0455		152.0625	152.0625	4.5400e-003		152.1760
<b>Total</b>	<b>0.1299</b>	<b>1.6254</b>	<b>0.9120</b>	<b>5.4400e-003</b>	<b>0.2637</b>	<b>8.4800e-003</b>	<b>0.2722</b>	<b>0.0721</b>	<b>8.0700e-003</b>	<b>0.0802</b>		<b>564.5626</b>	<b>564.5626</b>	<b>0.0354</b>		<b>565.4466</b>

**3.7 Architectural Coating - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.9737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3229	2.2451	2.4419	3.9600e-003		0.1479	0.1479		0.1479	0.1479		375.2641	375.2641	0.0291		375.9904
<b>Total</b>	<b>65.2966</b>	<b>2.2451</b>	<b>2.4419</b>	<b>3.9600e-003</b>		<b>0.1479</b>	<b>0.1479</b>		<b>0.1479</b>	<b>0.1479</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0291</b>		<b>375.9904</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.7 Architectural Coating - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1601	5.2336	1.1918	0.0130	0.3202	0.0246	0.3448	0.0922	0.0235	0.1157		1,375.0005	1,375.0005	0.1027		1,377.5688
Worker	0.2730	0.1843	1.8481	5.0900e-003	0.5589	3.6600e-003	0.5625	0.1482	3.3700e-003	0.1516		506.8749	506.8749	0.0151		507.2532
<b>Total</b>	<b>0.4331</b>	<b>5.4179</b>	<b>3.0400</b>	<b>0.0181</b>	<b>0.8791</b>	<b>0.0283</b>	<b>0.9074</b>	<b>0.2404</b>	<b>0.0269</b>	<b>0.2673</b>		<b>1,881.8754</b>	<b>1,881.8754</b>	<b>0.1179</b>		<b>1,884.8220</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.9737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3229	2.2451	2.4419	3.9600e-003		0.1479	0.1479		0.1479	0.1479	0.0000	375.2641	375.2641	0.0291		375.9904
<b>Total</b>	<b>65.2966</b>	<b>2.2451</b>	<b>2.4419</b>	<b>3.9600e-003</b>		<b>0.1479</b>	<b>0.1479</b>		<b>0.1479</b>	<b>0.1479</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0291</b>		<b>375.9904</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**3.7 Architectural Coating - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1601	5.2336	1.1918	0.0130	0.3202	0.0246	0.3448	0.0922	0.0235	0.1157		1,375.000 5	1,375.000 5	0.1027		1,377.568 8
Worker	0.2730	0.1843	1.8481	5.0900e-003	0.5589	3.6600e-003	0.5625	0.1482	3.3700e-003	0.1516		506.8749	506.8749	0.0151		507.2532
<b>Total</b>	<b>0.4331</b>	<b>5.4179</b>	<b>3.0400</b>	<b>0.0181</b>	<b>0.8791</b>	<b>0.0283</b>	<b>0.9074</b>	<b>0.2404</b>	<b>0.0269</b>	<b>0.2673</b>		<b>1,881.875 4</b>	<b>1,881.875 4</b>	<b>0.1179</b>		<b>1,884.822 0</b>

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Unrefrigerated Warehouse-No Rail	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.1151	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
Unmitigated	13.1151	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4669					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0461	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
<b>Total</b>	<b>13.1151</b>	<b>4.5300e-003</b>	<b>0.4901</b>	<b>4.0000e-005</b>		<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.0438</b>	<b>1.0438</b>	<b>2.8000e-003</b>		<b>1.1138</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4669					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0461	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
<b>Total</b>	<b>13.1151</b>	<b>4.5300e-003</b>	<b>0.4901</b>	<b>4.0000e-005</b>		<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.0438</b>	<b>1.0438</b>	<b>2.8000e-003</b>		<b>1.1138</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**



## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**Chino Parcel Delivery (Construction - Unmitigated)**  
**San Bernardino-South Coast County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	502.81	1000sqft	11.54	502,810.00	0
Other Asphalt Surfaces	4,266.76	1000sqft	51.61	4,266,760.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

## Project Characteristics -

Land Use - Total Building (SF) is the sum of 476,285 SF Unrefrigerated Warehouse No-Rail use (Parcel Delivery Building) and 26,529 SF of ancillary building use.

Construction Phase - Construction Schedule adjusted to be consistent with Operational Year.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Trips and VMT - Trips adjusted

Demolition -

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	1,110.00	250.00
tblConstructionPhase	NumDays	110.00	200.00
tblConstructionPhase	NumDays	75.00	125.00
tblConstructionPhase	NumDays	40.00	20.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	10,000.00
tblLandUse	LotAcreage	97.95	51.61
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	472.64	0.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	782.00	250.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	50.00
tblTripsAndVMT	WorkerTripNumber	2,003.00	250.00
tblTripsAndVMT	WorkerTripNumber	401.00	50.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	116,274,812.50	0.00

## 2.0 Emissions Summary

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## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.2497	73.9850	25.2494	0.0642	20.5038	3.1354	23.6392	10.2463	2.8852	13.1314	0.0000	6,483.115 4	6,483.115 4	1.8315	0.0000	6,528.903 0
2019	6.0229	70.3432	37.4604	0.1407	20.5038	2.9863	23.4901	10.2463	2.7479	12.9942	0.0000	14,304.76 55	14,304.76 55	2.3155	0.0000	14,347.79 01
2020	73.7736	87.3326	56.3674	0.1910	5.5385	2.7141	8.2526	1.5147	2.5371	4.0518	0.0000	19,269.51 58	19,269.51 58	2.5650	0.0000	19,333.64 07
Maximum	73.7736	87.3326	56.3674	0.1910	20.5038	3.1354	23.6392	10.2463	2.8852	13.1314	0.0000	19,269.51 58	19,269.51 58	2.5650	0.0000	19,333.64 07

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.2497	73.9850	25.2494	0.0642	8.1895	3.1354	11.3249	4.0488	2.8852	6.9340	0.0000	6,483.115 4	6,483.115 4	1.8315	0.0000	6,528.903 0
2019	6.0229	70.3432	37.4604	0.1407	8.1895	2.9863	11.1759	4.0488	2.7479	6.7967	0.0000	14,304.76 55	14,304.76 55	2.3155	0.0000	14,347.79 01
2020	73.7736	87.3326	56.3674	0.1910	5.5385	2.7141	8.2526	1.5147	2.5371	4.0518	0.0000	19,269.51 58	19,269.51 58	2.5650	0.0000	19,333.64 07
Maximum	73.7736	87.3326	56.3674	0.1910	8.1895	3.1354	11.3249	4.0488	2.8852	6.9340	0.0000	19,269.51 58	19,269.51 58	2.5650	0.0000	19,333.64 07

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.91	0.00	44.47	56.32	0.00	41.07	0.00	0.00	0.00	0.00	0.00	0.00

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.1151	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>13.1151</b>	<b>4.5300e-003</b>	<b>0.4901</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.0438</b>	<b>1.0438</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>1.1138</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.1151	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>13.1151</b>	<b>4.5300e-003</b>	<b>0.4901</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.0438</b>	<b>1.0438</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>1.1138</b>



## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	12/20/2018	5	70	
2	Site Preparation	Site Preparation	12/21/2018	1/17/2019	5	20	
3	Grading	Grading	1/18/2019	10/24/2019	5	200	
4	Building Construction	Building Construction	10/25/2019	10/8/2020	5	250	
5	Paving	Paving	7/9/2020	12/30/2020	5	125	
6	Architectural Coating	Architectural Coating	8/27/2020	12/30/2020	5	90	

**Acres of Grading (Site Preparation Phase): 40****Acres of Grading (Grading Phase): 700****Acres of Paving: 51.61****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 754,215; Non-Residential Outdoor: 251,405; Striped Parking Area: 256,006 (Architectural Coating – sqft)****OffRoad Equipment**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	15.00	46.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	20.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	250.00	250.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	15.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1412	0.0000	0.1412	0.0214	0.0000	0.0214			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>	<b>0.1412</b>	<b>1.9386</b>	<b>2.0797</b>	<b>0.0214</b>	<b>1.8048</b>	<b>1.8262</b>		<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2018****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.6800e-003	0.1850	0.0264	5.3000e-004	0.0115	6.5000e-004	0.0122	3.1500e-003	6.2000e-004	3.7700e-003		55.9486	55.9486	3.0700e-003		56.0253
Vendor	0.0605	1.8385	0.3947	4.1400e-003	0.0961	0.0128	0.1088	0.0277	0.0122	0.0399		436.3889	436.3889	0.0299		437.1368
Worker	0.0979	0.0673	0.8434	1.8200e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		181.1143	181.1143	6.6700e-003		181.2811
<b>Total</b>	<b>0.1630</b>	<b>2.0908</b>	<b>1.2645</b>	<b>6.4900e-003</b>	<b>0.2752</b>	<b>0.0146</b>	<b>0.2898</b>	<b>0.0753</b>	<b>0.0139</b>	<b>0.0892</b>		<b>673.4518</b>	<b>673.4518</b>	<b>0.0397</b>		<b>674.4432</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0551	0.0000	0.0551	8.3400e-003	0.0000	8.3400e-003			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>	<b>0.0551</b>	<b>1.9386</b>	<b>1.9936</b>	<b>8.3400e-003</b>	<b>1.8048</b>	<b>1.8132</b>	<b>0.0000</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2018****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.6800e-003	0.1850	0.0264	5.3000e-004	0.0115	6.5000e-004	0.0122	3.1500e-003	6.2000e-004	3.7700e-003		55.9486	55.9486	3.0700e-003		56.0253
Vendor	0.0605	1.8385	0.3947	4.1400e-003	0.0961	0.0128	0.1088	0.0277	0.0122	0.0399		436.3889	436.3889	0.0299		437.1368
Worker	0.0979	0.0673	0.8434	1.8200e-003	0.1677	1.1600e-003	0.1688	0.0445	1.0700e-003	0.0455		181.1143	181.1143	6.6700e-003		181.2811
<b>Total</b>	<b>0.1630</b>	<b>2.0908</b>	<b>1.2645</b>	<b>6.4900e-003</b>	<b>0.2752</b>	<b>0.0146</b>	<b>0.2898</b>	<b>0.0753</b>	<b>0.0139</b>	<b>0.0892</b>		<b>673.4518</b>	<b>673.4518</b>	<b>0.0397</b>		<b>674.4432</b>

**3.3 Site Preparation - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					20.1873	0.0000	20.1873	10.1597	0.0000	10.1597			0.0000			0.0000
Off-Road	6.0597	71.6980	23.7636	0.0570		3.1187	3.1187		2.8692	2.8692		5,742.1116	5,742.1116	1.7876		5,786.8015
<b>Total</b>	<b>6.0597</b>	<b>71.6980</b>	<b>23.7636</b>	<b>0.0570</b>	<b>20.1873</b>	<b>3.1187</b>	<b>23.3060</b>	<b>10.1597</b>	<b>2.8692</b>	<b>13.0289</b>		<b>5,742.1116</b>	<b>5,742.1116</b>	<b>1.7876</b>		<b>5,786.8015</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 2018****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0725	2.2062	0.4737	4.9700e-003	0.1153	0.0153	0.1306	0.0332	0.0147	0.0479		523.6667	523.6667	0.0359		524.5642
Worker	0.1174	0.0808	1.0121	2.1900e-003	0.2012	1.4000e-003	0.2026	0.0534	1.2900e-003	0.0547		217.3372	217.3372	8.0100e-003		217.5374
<b>Total</b>	<b>0.1900</b>	<b>2.2870</b>	<b>1.4858</b>	<b>7.1600e-003</b>	<b>0.3165</b>	<b>0.0167</b>	<b>0.3332</b>	<b>0.0866</b>	<b>0.0160</b>	<b>0.1025</b>		<b>741.0039</b>	<b>741.0039</b>	<b>0.0439</b>		<b>742.1015</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.8730	0.0000	7.8730	3.9623	0.0000	3.9623			0.0000			0.0000
Off-Road	6.0597	71.6980	23.7636	0.0570		3.1187	3.1187		2.8692	2.8692	0.0000	5,742.1116	5,742.1116	1.7876		5,786.8015
<b>Total</b>	<b>6.0597</b>	<b>71.6980</b>	<b>23.7636</b>	<b>0.0570</b>	<b>7.8730</b>	<b>3.1187</b>	<b>10.9917</b>	<b>3.9623</b>	<b>2.8692</b>	<b>6.8315</b>	<b>0.0000</b>	<b>5,742.1116</b>	<b>5,742.1116</b>	<b>1.7876</b>		<b>5,786.8015</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 2018****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0725	2.2062	0.4737	4.9700e-003	0.1153	0.0153	0.1306	0.0332	0.0147	0.0479		523.6667	523.6667	0.0359		524.5642
Worker	0.1174	0.0808	1.0121	2.1900e-003	0.2012	1.4000e-003	0.2026	0.0534	1.2900e-003	0.0547		217.3372	217.3372	8.0100e-003		217.5374
<b>Total</b>	<b>0.1900</b>	<b>2.2870</b>	<b>1.4858</b>	<b>7.1600e-003</b>	<b>0.3165</b>	<b>0.0167</b>	<b>0.3332</b>	<b>0.0866</b>	<b>0.0160</b>	<b>0.1025</b>		<b>741.0039</b>	<b>741.0039</b>	<b>0.0439</b>		<b>742.1015</b>

**3.3 Site Preparation - 2019****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					20.1873	0.0000	20.1873	10.1597	0.0000	10.1597			0.0000			0.0000
Off-Road	5.8450	68.1996	23.1708	0.0570		2.9720	2.9720		2.7343	2.7343		5,645.4173	5,645.4173	1.7862		5,690.0710
<b>Total</b>	<b>5.8450</b>	<b>68.1996</b>	<b>23.1708</b>	<b>0.0570</b>	<b>20.1873</b>	<b>2.9720</b>	<b>23.1593</b>	<b>10.1597</b>	<b>2.7343</b>	<b>12.8940</b>		<b>5,645.4173</b>	<b>5,645.4173</b>	<b>1.7862</b>		<b>5,690.0710</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 2019****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0646	2.0727	0.4215	4.9200e-003	0.1153	0.0130	0.1283	0.0332	0.0124	0.0456		518.4859	518.4859	0.0351		519.3624
Worker	0.1067	0.0710	0.8973	2.1100e-003	0.2012	1.3500e-003	0.2026	0.0534	1.2500e-003	0.0546		209.9549	209.9549	7.0400e-003		210.1309
<b>Total</b>	<b>0.1713</b>	<b>2.1436</b>	<b>1.3187</b>	<b>7.0300e-003</b>	<b>0.3165</b>	<b>0.0143</b>	<b>0.3308</b>	<b>0.0866</b>	<b>0.0137</b>	<b>0.1002</b>		<b>728.4407</b>	<b>728.4407</b>	<b>0.0421</b>		<b>729.4932</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.8730	0.0000	7.8730	3.9623	0.0000	3.9623			0.0000			0.0000
Off-Road	5.8450	68.1996	23.1708	0.0570		2.9720	2.9720		2.7343	2.7343	0.0000	5,645.4173	5,645.4173	1.7862		5,690.0710
<b>Total</b>	<b>5.8450</b>	<b>68.1996</b>	<b>23.1708</b>	<b>0.0570</b>	<b>7.8730</b>	<b>2.9720</b>	<b>10.8451</b>	<b>3.9623</b>	<b>2.7343</b>	<b>6.6965</b>	<b>0.0000</b>	<b>5,645.4173</b>	<b>5,645.4173</b>	<b>1.7862</b>		<b>5,690.0710</b>



## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.3 Site Preparation - 2019****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0646	2.0727	0.4215	4.9200e-003	0.1153	0.0130	0.1283	0.0332	0.0124	0.0456		518.4859	518.4859	0.0351		519.3624
Worker	0.1067	0.0710	0.8973	2.1100e-003	0.2012	1.3500e-003	0.2026	0.0534	1.2500e-003	0.0546		209.9549	209.9549	7.0400e-003		210.1309
<b>Total</b>	<b>0.1713</b>	<b>2.1436</b>	<b>1.3187</b>	<b>7.0300e-003</b>	<b>0.3165</b>	<b>0.0143</b>	<b>0.3308</b>	<b>0.0866</b>	<b>0.0137</b>	<b>0.1002</b>		<b>728.4407</b>	<b>728.4407</b>	<b>0.0421</b>		<b>729.4932</b>

**3.4 Grading - 2019****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.7395	0.0000	9.7395	3.7119	0.0000	3.7119			0.0000			0.0000
Off-Road	5.4939	65.8336	33.9306	0.0715		2.6735	2.6735		2.4596	2.4596		7,079.5017	7,079.5017	2.2399		7,135.4987
<b>Total</b>	<b>5.4939</b>	<b>65.8336</b>	<b>33.9306</b>	<b>0.0715</b>	<b>9.7395</b>	<b>2.6735</b>	<b>12.4130</b>	<b>3.7119</b>	<b>2.4596</b>	<b>6.1715</b>		<b>7,079.5017</b>	<b>7,079.5017</b>	<b>2.2399</b>		<b>7,135.4987</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.4 Grading - 2019****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0418	1.6505	0.2389	4.9600e-003	0.1094	5.5400e-003	0.1149	0.0300	5.3000e-003	0.0353		525.7831	525.7831	0.0289		526.5052
Vendor	0.0717	2.3030	0.4683	5.4700e-003	0.1281	0.0144	0.1425	0.0369	0.0138	0.0507		576.0954	576.0954	0.0390		577.0693
Worker	0.1186	0.0789	0.9970	2.3400e-003	0.2236	1.5000e-003	0.2251	0.0593	1.3800e-003	0.0607		233.2832	233.2832	7.8200e-003		233.4787
<b>Total</b>	<b>0.2322</b>	<b>4.0323</b>	<b>1.7042</b>	<b>0.0128</b>	<b>0.4610</b>	<b>0.0214</b>	<b>0.4825</b>	<b>0.1262</b>	<b>0.0205</b>	<b>0.1466</b>		<b>1,335.1617</b>	<b>1,335.1617</b>	<b>0.0757</b>		<b>1,337.0532</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7984	0.0000	3.7984	1.4476	0.0000	1.4476			0.0000			0.0000
Off-Road	5.4939	65.8336	33.9306	0.0715		2.6735	2.6735		2.4596	2.4596	0.0000	7,079.5017	7,079.5017	2.2399		7,135.4987
<b>Total</b>	<b>5.4939</b>	<b>65.8336</b>	<b>33.9306</b>	<b>0.0715</b>	<b>3.7984</b>	<b>2.6735</b>	<b>6.4719</b>	<b>1.4476</b>	<b>2.4596</b>	<b>3.9072</b>	<b>0.0000</b>	<b>7,079.5017</b>	<b>7,079.5017</b>	<b>2.2399</b>		<b>7,135.4987</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.4 Grading - 2019****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0418	1.6505	0.2389	4.9600e-003	0.1094	5.5400e-003	0.1149	0.0300	5.3000e-003	0.0353		525.7831	525.7831	0.0289		526.5052
Vendor	0.0717	2.3030	0.4683	5.4700e-003	0.1281	0.0144	0.1425	0.0369	0.0138	0.0507		576.0954	576.0954	0.0390		577.0693
Worker	0.1186	0.0789	0.9970	2.3400e-003	0.2236	1.5000e-003	0.2251	0.0593	1.3800e-003	0.0607		233.2832	233.2832	7.8200e-003		233.4787
<b>Total</b>	<b>0.2322</b>	<b>4.0323</b>	<b>1.7042</b>	<b>0.0128</b>	<b>0.4610</b>	<b>0.0214</b>	<b>0.4825</b>	<b>0.1262</b>	<b>0.0205</b>	<b>0.1466</b>		<b>1,335.1617</b>	<b>1,335.1617</b>	<b>0.0757</b>		<b>1,337.0532</b>

**3.5 Building Construction - 2019****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6440	39.6763	19.1447	0.0430		1.8165	1.8165		1.6972	1.6972		4,187.5330	4,187.5330	1.1363		4,215.9399
<b>Total</b>	<b>3.6440</b>	<b>39.6763</b>	<b>19.1447</b>	<b>0.0430</b>		<b>1.8165</b>	<b>1.8165</b>		<b>1.6972</b>	<b>1.6972</b>		<b>4,187.5330</b>	<b>4,187.5330</b>	<b>1.1363</b>		<b>4,215.9399</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.5 Building Construction - 2019****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8967	28.7868	5.8537	0.0683	1.6012	0.1800	1.7813	0.4611	0.1722	0.6333		7,201.1928	7,201.1928	0.4869		7,213.3660
Worker	1.4822	0.9859	12.4620	0.0293	2.7944	0.0188	2.8132	0.7411	0.0173	0.7584		2,916.0398	2,916.0398	0.0978		2,918.4842
<b>Total</b>	<b>2.3789</b>	<b>29.7727</b>	<b>18.3157</b>	<b>0.0976</b>	<b>4.3956</b>	<b>0.1988</b>	<b>4.5945</b>	<b>1.2022</b>	<b>0.1896</b>	<b>1.3917</b>		<b>10,117.2325</b>	<b>10,117.2325</b>	<b>0.5847</b>		<b>10,131.8502</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6440	39.6763	19.1447	0.0430		1.8165	1.8165		1.6972	1.6972	0.0000	4,187.5330	4,187.5330	1.1363		4,215.9399
<b>Total</b>	<b>3.6440</b>	<b>39.6763</b>	<b>19.1447</b>	<b>0.0430</b>		<b>1.8165</b>	<b>1.8165</b>		<b>1.6972</b>	<b>1.6972</b>	<b>0.0000</b>	<b>4,187.5330</b>	<b>4,187.5330</b>	<b>1.1363</b>		<b>4,215.9399</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.5 Building Construction - 2019****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8967	28.7868	5.8537	0.0683	1.6012	0.1800	1.7813	0.4611	0.1722	0.6333		7,201.1928	7,201.1928	0.4869		7,213.3660
Worker	1.4822	0.9859	12.4620	0.0293	2.7944	0.0188	2.8132	0.7411	0.0173	0.7584		2,916.0398	2,916.0398	0.0978		2,918.4842
<b>Total</b>	<b>2.3789</b>	<b>29.7727</b>	<b>18.3157</b>	<b>0.0976</b>	<b>4.3956</b>	<b>0.1988</b>	<b>4.5945</b>	<b>1.2022</b>	<b>0.1896</b>	<b>1.3917</b>		<b>10,117.2325</b>	<b>10,117.2325</b>	<b>0.5847</b>		<b>10,131.8502</b>

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3632	36.6770	18.6286	0.0430		1.6373	1.6373		1.5290	1.5290		4,114.5597	4,114.5597	1.1279		4,142.7566
<b>Total</b>	<b>3.3632</b>	<b>36.6770</b>	<b>18.6286</b>	<b>0.0430</b>		<b>1.6373</b>	<b>1.6373</b>		<b>1.5290</b>	<b>1.5290</b>		<b>4,114.5597</b>	<b>4,114.5597</b>	<b>1.1279</b>		<b>4,142.7566</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.5 Building Construction - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7589	26.3822	5.1416	0.0678	1.6012	0.1214	1.7226	0.4611	0.1161	0.5772		7,152.5346	7,152.5346	0.4646		7,164.1491
Worker	1.3645	0.8757	11.2432	0.0284	2.7944	0.0183	2.8127	0.7411	0.0169	0.7580		2,825.2103	2,825.2103	0.0863		2,827.3665
<b>Total</b>	<b>2.1234</b>	<b>27.2579</b>	<b>16.3847</b>	<b>0.0962</b>	<b>4.3956</b>	<b>0.1397</b>	<b>4.5353</b>	<b>1.2021</b>	<b>0.1330</b>	<b>1.3351</b>		<b>9,977.7450</b>	<b>9,977.7450</b>	<b>0.5508</b>		<b>9,991.5156</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3632	36.6770	18.6286	0.0430		1.6373	1.6373		1.5290	1.5290	0.0000	4,114.5597	4,114.5597	1.1279		4,142.7566
<b>Total</b>	<b>3.3632</b>	<b>36.6770</b>	<b>18.6286</b>	<b>0.0430</b>		<b>1.6373</b>	<b>1.6373</b>		<b>1.5290</b>	<b>1.5290</b>	<b>0.0000</b>	<b>4,114.5597</b>	<b>4,114.5597</b>	<b>1.1279</b>		<b>4,142.7566</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.5 Building Construction - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7589	26.3822	5.1416	0.0678	1.6012	0.1214	1.7226	0.4611	0.1161	0.5772		7,152.534 6	7,152.534 6	0.4646		7,164.149 1
Worker	1.3645	0.8757	11.2432	0.0284	2.7944	0.0183	2.8127	0.7411	0.0169	0.7580		2,825.210 3	2,825.210 3	0.0863		2,827.366 5
<b>Total</b>	<b>2.1234</b>	<b>27.2579</b>	<b>16.3847</b>	<b>0.0962</b>	<b>4.3956</b>	<b>0.1397</b>	<b>4.5353</b>	<b>1.2021</b>	<b>0.1330</b>	<b>1.3351</b>		<b>9,977.745 0</b>	<b>9,977.745 0</b>	<b>0.5508</b>		<b>9,991.515 6</b>

**3.6 Paving - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.733 4	2,207.733 4	0.7140		2,225.584 1
Paving	1.0818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.4383</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.733 4</b>	<b>2,207.733 4</b>	<b>0.7140</b>		<b>2,225.584 1</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.6 Paving - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0455	1.5829	0.3085	4.0700e-003	0.0961	7.2800e-003	0.1034	0.0277	6.9700e-003	0.0346		429.1521	429.1521	0.0279		429.8490
Worker	0.0819	0.0525	0.6746	1.7000e-003	0.1677	1.1000e-003	0.1688	0.0445	1.0100e-003	0.0455		169.5126	169.5126	5.1700e-003		169.6420
<b>Total</b>	<b>0.1274</b>	<b>1.6355</b>	<b>0.9831</b>	<b>5.7700e-003</b>	<b>0.2637</b>	<b>8.3800e-003</b>	<b>0.2721</b>	<b>0.0721</b>	<b>7.9800e-003</b>	<b>0.0801</b>		<b>598.6647</b>	<b>598.6647</b>	<b>0.0330</b>		<b>599.4909</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	1.0818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.4383</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>



## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.6 Paving - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0455	1.5829	0.3085	4.0700e-003	0.0961	7.2800e-003	0.1034	0.0277	6.9700e-003	0.0346		429.1521	429.1521	0.0279		429.8490
Worker	0.0819	0.0525	0.6746	1.7000e-003	0.1677	1.1000e-003	0.1688	0.0445	1.0100e-003	0.0455		169.5126	169.5126	5.1700e-003		169.6420
<b>Total</b>	<b>0.1274</b>	<b>1.6355</b>	<b>0.9831</b>	<b>5.7700e-003</b>	<b>0.2637</b>	<b>8.3800e-003</b>	<b>0.2721</b>	<b>0.0721</b>	<b>7.9800e-003</b>	<b>0.0801</b>		<b>598.6647</b>	<b>598.6647</b>	<b>0.0330</b>		<b>599.4909</b>

**3.7 Architectural Coating - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.9737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3229	2.2451	2.4419	3.9600e-003		0.1479	0.1479		0.1479	0.1479		375.2641	375.2641	0.0291		375.9904
<b>Total</b>	<b>65.2966</b>	<b>2.2451</b>	<b>2.4419</b>	<b>3.9600e-003</b>		<b>0.1479</b>	<b>0.1479</b>		<b>0.1479</b>	<b>0.1479</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0291</b>		<b>375.9904</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.7 Architectural Coating - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1518	5.2764	1.0283	0.0136	0.3202	0.0243	0.3445	0.0922	0.0232	0.1154		1,430.5069	1,430.5069	0.0929		1,432.8298
Worker	0.2729	0.1751	2.2486	5.6800e-003	0.5589	3.6600e-003	0.5625	0.1482	3.3700e-003	0.1516		565.0421	565.0421	0.0173		565.4733
<b>Total</b>	<b>0.4247</b>	<b>5.4516</b>	<b>3.2769</b>	<b>0.0193</b>	<b>0.8791</b>	<b>0.0279</b>	<b>0.9071</b>	<b>0.2404</b>	<b>0.0266</b>	<b>0.2670</b>		<b>1,995.5490</b>	<b>1,995.5490</b>	<b>0.1102</b>		<b>1,998.3031</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.9737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3229	2.2451	2.4419	3.9600e-003		0.1479	0.1479		0.1479	0.1479	0.0000	375.2641	375.2641	0.0291		375.9904
<b>Total</b>	<b>65.2966</b>	<b>2.2451</b>	<b>2.4419</b>	<b>3.9600e-003</b>		<b>0.1479</b>	<b>0.1479</b>		<b>0.1479</b>	<b>0.1479</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0291</b>		<b>375.9904</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**3.7 Architectural Coating - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1518	5.2764	1.0283	0.0136	0.3202	0.0243	0.3445	0.0922	0.0232	0.1154		1,430.5069	1,430.5069	0.0929		1,432.8298
Worker	0.2729	0.1751	2.2486	5.6800e-003	0.5589	3.6600e-003	0.5625	0.1482	3.3700e-003	0.1516		565.0421	565.0421	0.0173		565.4733
<b>Total</b>	<b>0.4247</b>	<b>5.4516</b>	<b>3.2769</b>	<b>0.0193</b>	<b>0.8791</b>	<b>0.0279</b>	<b>0.9071</b>	<b>0.2404</b>	<b>0.0266</b>	<b>0.2670</b>		<b>1,995.5490</b>	<b>1,995.5490</b>	<b>0.1102</b>		<b>1,998.3031</b>

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Unrefrigerated Warehouse-No Rail	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.1151	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
Unmitigated	13.1151	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4669					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0461	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
<b>Total</b>	<b>13.1151</b>	<b>4.5300e-003</b>	<b>0.4901</b>	<b>4.0000e-005</b>		<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.0438</b>	<b>1.0438</b>	<b>2.8000e-003</b>		<b>1.1138</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4669					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0461	4.5300e-003	0.4901	4.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003		1.0438	1.0438	2.8000e-003		1.1138
<b>Total</b>	<b>13.1151</b>	<b>4.5300e-003</b>	<b>0.4901</b>	<b>4.0000e-005</b>		<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.7600e-003</b>	<b>1.7600e-003</b>		<b>1.0438</b>	<b>1.0438</b>	<b>2.8000e-003</b>		<b>1.1138</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**



## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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### **APPENDIX 3.3:**

#### **CALEEMOD OPERATIONS (PASSENGER CARS) EMISSIONS MODEL OUTPUTS**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

## Chino Parcel Delivery (Operations - Passenger Cars)

### San Bernardino-South Coast County, Summer

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	476.29	1000sqft	10.93	476,290.00	0
Other Asphalt Surfaces	4,266.76	1000sqft	52.19	4,266,760.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Lot Acreage based on Site Plan.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Operations Run Only.

Operational Off-Road Equipment - Operational Equipment List provided by the Client.

Fleet Mix - Operations Run Only.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	1.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblLandUse	LotAcreage	97.95	52.19
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	89.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	5.55
tblVehicleTrips	SU_TR	1.68	5.55
tblVehicleTrips	WD_TR	1.68	5.55

## 2.0 Emissions Summary

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## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible][illegible]

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Energy	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937
Mobile	4.1158	5.9249	85.3551	0.2921	33.3367	0.1815	33.5182	8.8372	0.1673	9.0044		29,128.5380	29,128.5380	0.6051		29,143.6647
Offroad	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.5861	2,604.5861	0.8424		2,625.6455
<b>Total</b>	<b>18.2781</b>	<b>24.0262</b>	<b>93.9944</b>	<b>0.3206</b>	<b>33.3367</b>	<b>0.8955</b>	<b>34.2322</b>	<b>8.8372</b>	<b>0.8259</b>	<b>9.6630</b>		<b>32,045.8040</b>	<b>32,045.8040</b>	<b>1.4562</b>	<b>5.7100e-003</b>	<b>32,083.9115</b>



## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

**2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Energy	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
Mobile	4.1158	5.9249	85.3551	0.2921	33.3367	0.1815	33.5182	8.8372	0.1673	9.0044		29,128.5380	29,128.5380	0.6051		29,143.6647
Offroad	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.5861	2,604.5861	0.8424		2,625.6455
<b>Total</b>	<b>18.2772</b>	<b>24.0185</b>	<b>93.9879</b>	<b>0.3205</b>	<b>33.3367</b>	<b>0.8949</b>	<b>34.2316</b>	<b>8.8372</b>	<b>0.8253</b>	<b>9.6625</b>		<b>32,036.5929</b>	<b>32,036.5929</b>	<b>1.4560</b>	<b>5.5400e-003</b>	<b>32,074.6457</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>	<b>0.02</b>	<b>0.00</b>	<b>0.07</b>	<b>0.00</b>	<b>0.00</b>	<b>0.07</b>	<b>0.01</b>	<b>0.00</b>	<b>0.03</b>	<b>0.03</b>	<b>0.01</b>	<b>2.98</b>	<b>0.03</b>

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	9/14/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

**Acres of Paving: 52.19****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.1158	5.9249	85.3551	0.2921	33.3367	0.1815	33.5182	8.8372	0.1673	9.0044		29,128.53 80	29,128.53 80	0.6051		29,143.66 47
Unmitigated	4.1158	5.9249	85.3551	0.2921	33.3367	0.1815	33.5182	8.8372	0.1673	9.0044		29,128.53 80	29,128.53 80	0.6051		29,143.66 47

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	2,643.41	2,643.41	2,643.41	15,972,538	15,972,538
Total	2,643.41	2,643.41	2,643.41	15,972,538	15,972,538

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Unrefrigerated Warehouse-No Rail	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
NaturalGas Unmitigated	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2648.96	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937
<b>Total</b>		<b>0.0286</b>	<b>0.2597</b>	<b>0.2182</b>	<b>1.5600e-003</b>		<b>0.0197</b>	<b>0.0197</b>		<b>0.0197</b>	<b>0.0197</b>		<b>311.6418</b>	<b>311.6418</b>	<b>5.9700e-003</b>	<b>5.7100e-003</b>	<b>313.4937</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.57066	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
<b>Total</b>		<b>0.0277</b>	<b>0.2520</b>	<b>0.2117</b>	<b>1.5100e-003</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0192</b>	<b>0.0192</b>		<b>302.4307</b>	<b>302.4307</b>	<b>5.8000e-003</b>	<b>5.5400e-003</b>	<b>304.2279</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Unmitigated	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0459	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
<b>Total</b>	<b>12.5224</b>	<b>4.5000e-003</b>	<b>0.4874</b>	<b>4.0000e-005</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.0380</b>	<b>1.0380</b>	<b>2.7800e-003</b>		<b>1.1076</b>



## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0459	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
<b>Total</b>	<b>12.5224</b>	<b>4.5000e-003</b>	<b>0.4874</b>	<b>4.0000e-005</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.0380</b>	<b>1.0380</b>	<b>2.7800e-003</b>		<b>1.1076</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	8.00	365	200	0.39	Diesel

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.586 1	2,604.586 1	0.8424		2,625.645 5
<b>Total</b>	<b>1.6113</b>	<b>17.8371</b>	<b>7.9337</b>	<b>0.0269</b>		<b>0.6925</b>	<b>0.6925</b>		<b>0.6371</b>	<b>0.6371</b>		<b>2,604.586 1</b>	<b>2,604.586 1</b>	<b>0.8424</b>		<b>2,625.645 5</b>

**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

## Chino Parcel Delivery (Operations - Passenger Cars)

### San Bernardino-South Coast County, Winter

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	476.29	1000sqft	10.93	476,290.00	0
Other Asphalt Surfaces	4,266.76	1000sqft	52.19	4,266,760.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Lot Acreage based on Site Plan.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Operations Run Only.

Operational Off-Road Equipment - Operational Equipment List provided by the Client.

Fleet Mix - Operations Run Only.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	1.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblLandUse	LotAcreage	97.95	52.19
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	89.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	5.55
tblVehicleTrips	SU_TR	1.68	5.55
tblVehicleTrips	WD_TR	1.68	5.55

## 2.0 Emissions Summary

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## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible][illegible]

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Energy	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937
Mobile	3.3638	6.1819	68.6903	0.2612	33.3367	0.1815	33.5182	8.8372	0.1673	9.0044		26,062.0234	26,062.0234	0.5275		26,075.2119
Offroad	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.5861	2,604.5861	0.8424		2,625.6455
<b>Total</b>	<b>17.5261</b>	<b>24.2831</b>	<b>77.3296</b>	<b>0.2897</b>	<b>33.3367</b>	<b>0.8955</b>	<b>34.2322</b>	<b>8.8372</b>	<b>0.8259</b>	<b>9.6630</b>		<b>28,979.2894</b>	<b>28,979.2894</b>	<b>1.3787</b>	<b>5.7100e-003</b>	<b>29,015.4588</b>

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

**2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Energy	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
Mobile	3.3638	6.1819	68.6903	0.2612	33.3367	0.1815	33.5182	8.8372	0.1673	9.0044		26,062.0234	26,062.0234	0.5275		26,075.2119
Offroad	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.5861	2,604.5861	0.8424		2,625.6455
<b>Total</b>	<b>17.5252</b>	<b>24.2754</b>	<b>77.3231</b>	<b>0.2896</b>	<b>33.3367</b>	<b>0.8949</b>	<b>34.2316</b>	<b>8.8372</b>	<b>0.8253</b>	<b>9.6625</b>		<b>28,970.0783</b>	<b>28,970.0783</b>	<b>1.3785</b>	<b>5.5400e-003</b>	<b>29,006.1930</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>	<b>0.02</b>	<b>0.00</b>	<b>0.07</b>	<b>0.00</b>	<b>0.00</b>	<b>0.07</b>	<b>0.01</b>	<b>0.00</b>	<b>0.03</b>	<b>0.03</b>	<b>0.01</b>	<b>2.98</b>	<b>0.03</b>

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	9/14/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0



## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

**Acres of Paving: 52.19****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3638	6.1819	68.6903	0.2612	33.3367	0.1815	33.5182	8.8372	0.1673	9.0044		26,062.02 34	26,062.02 34	0.5275		26,075.21 19
Unmitigated	3.3638	6.1819	68.6903	0.2612	33.3367	0.1815	33.5182	8.8372	0.1673	9.0044		26,062.02 34	26,062.02 34	0.5275		26,075.21 19

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	2,643.41	2,643.41	2,643.41	15,972,538	15,972,538
Total	2,643.41	2,643.41	2,643.41	15,972,538	15,972,538

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Unrefrigerated Warehouse-No Rail	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
NaturalGas Unmitigated	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2648.96	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937
<b>Total</b>		<b>0.0286</b>	<b>0.2597</b>	<b>0.2182</b>	<b>1.5600e-003</b>		<b>0.0197</b>	<b>0.0197</b>		<b>0.0197</b>	<b>0.0197</b>		<b>311.6418</b>	<b>311.6418</b>	<b>5.9700e-003</b>	<b>5.7100e-003</b>	<b>313.4937</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.57066	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
<b>Total</b>		<b>0.0277</b>	<b>0.2520</b>	<b>0.2117</b>	<b>1.5100e-003</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0192</b>	<b>0.0192</b>		<b>302.4307</b>	<b>302.4307</b>	<b>5.8000e-003</b>	<b>5.5400e-003</b>	<b>304.2279</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Unmitigated	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0459	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
<b>Total</b>	<b>12.5224</b>	<b>4.5000e-003</b>	<b>0.4874</b>	<b>4.0000e-005</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.0380</b>	<b>1.0380</b>	<b>2.7800e-003</b>		<b>1.1076</b>

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0459	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
<b>Total</b>	<b>12.5224</b>	<b>4.5000e-003</b>	<b>0.4874</b>	<b>4.0000e-005</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.0380</b>	<b>1.0380</b>	<b>2.7800e-003</b>		<b>1.1076</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	8.00	365	200	0.39	Diesel



## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.586 1	2,604.586 1	0.8424		2,625.645 5
<b>Total</b>	<b>1.6113</b>	<b>17.8371</b>	<b>7.9337</b>	<b>0.0269</b>		<b>0.6925</b>	<b>0.6925</b>		<b>0.6371</b>	<b>0.6371</b>		<b>2,604.586 1</b>	<b>2,604.586 1</b>	<b>0.8424</b>		<b>2,625.645 5</b>

**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## **APPENDIX 3.4:**

### **CALEEMOD OPERATIONS (TRUCKS) EMISSIONS MODEL OUTPUTS**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

## Chino Parcel Delivery (Operations - Trucks)

### San Bernardino-South Coast County, Summer

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	476.29	1000sqft	10.93	476,290.00	0
Other Asphalt Surfaces	4,266.76	1000sqft	52.19	4,266,760.00	0

### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

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

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Lot Acreage based on Site Plan.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Operations Run Only.

Operational Off-Road Equipment - Operational Equipment List provided by the Client.

Fleet Mix - Operations Run Only.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblFleetMix	HHD	0.06	0.16
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.61
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblLandUse	LotAcreage	97.95	52.19
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	89.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	88.70
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	2.65
tblVehicleTrips	SU_TR	1.68	2.65
tblVehicleTrips	WD_TR	1.68	2.65

## 2.0 Emissions Summary

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## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible][illegible]

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Energy	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937
Mobile	24.4573	579.5995	256.2249	2.1110	98.9273	5.5010	104.4282	28.2024	5.2587	33.4611		219,002.6620	219,002.6620	4.7602		219,121.6670
Offroad	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.5861	2,604.5861	0.8424		2,625.6455
<b>Total</b>	<b>38.6195</b>	<b>597.7007</b>	<b>264.8641</b>	<b>2.1395</b>	<b>98.9273</b>	<b>6.2150</b>	<b>105.1423</b>	<b>28.2024</b>	<b>5.9173</b>	<b>34.1197</b>		<b>221,919.9280</b>	<b>221,919.9280</b>	<b>5.6113</b>	<b>5.7100e-003</b>	<b>222,061.9138</b>



## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

**2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Energy	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
Mobile	24.4573	579.5995	256.2249	2.1110	98.9273	5.5010	104.4282	28.2024	5.2587	33.4611		219,002.6620	219,002.6620	4.7602		219,121.6670
Offroad	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.5861	2,604.5861	0.8424		2,625.6455
<b>Total</b>	<b>38.6187</b>	<b>597.6930</b>	<b>264.8577</b>	<b>2.1394</b>	<b>98.9273</b>	<b>6.2144</b>	<b>105.1417</b>	<b>28.2024</b>	<b>5.9167</b>	<b>34.1191</b>		<b>221,910.7169</b>	<b>221,910.7169</b>	<b>5.6112</b>	<b>5.5400e-003</b>	<b>222,052.6480</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.98</b>	<b>0.00</b>

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	9/14/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

**Acres of Paving: 52.19****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.4573	579.5995	256.2249	2.1110	98.9273	5.5010	104.4282	28.2024	5.2587	33.4611		219,002.6620	219,002.6620	4.7602		219,121.6670
Unmitigated	24.4573	579.5995	256.2249	2.1110	98.9273	5.5010	104.4282	28.2024	5.2587	33.4611		219,002.6620	219,002.6620	4.7602		219,121.6670

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,262.17	1,262.17	1,262.17	40,751,382	40,751,382
Total	1,262.17	1,262.17	1,262.17	40,751,382	40,751,382

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	88.70	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.610000	0.000000	0.230000	0.160000	0.000000	0.000000	0.000000	0.000000	0.000000

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
NaturalGas Unmitigated	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2648.96	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937
<b>Total</b>		<b>0.0286</b>	<b>0.2597</b>	<b>0.2182</b>	<b>1.5600e-003</b>		<b>0.0197</b>	<b>0.0197</b>		<b>0.0197</b>	<b>0.0197</b>		<b>311.6418</b>	<b>311.6418</b>	<b>5.9700e-003</b>	<b>5.7100e-003</b>	<b>313.4937</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.57066	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
<b>Total</b>		<b>0.0277</b>	<b>0.2520</b>	<b>0.2117</b>	<b>1.5100e-003</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0192</b>	<b>0.0192</b>		<b>302.4307</b>	<b>302.4307</b>	<b>5.8000e-003</b>	<b>5.5400e-003</b>	<b>304.2279</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Unmitigated	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0459	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
<b>Total</b>	<b>12.5224</b>	<b>4.5000e-003</b>	<b>0.4874</b>	<b>4.0000e-005</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.0380</b>	<b>1.0380</b>	<b>2.7800e-003</b>		<b>1.1076</b>



## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0459	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
<b>Total</b>	<b>12.5224</b>	<b>4.5000e-003</b>	<b>0.4874</b>	<b>4.0000e-005</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.0380</b>	<b>1.0380</b>	<b>2.7800e-003</b>		<b>1.1076</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	8.00	365	200	0.39	Diesel

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Summer

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.586 1	2,604.586 1	0.8424		2,625.645 5
<b>Total</b>	<b>1.6113</b>	<b>17.8371</b>	<b>7.9337</b>	<b>0.0269</b>		<b>0.6925</b>	<b>0.6925</b>		<b>0.6371</b>	<b>0.6371</b>		<b>2,604.586 1</b>	<b>2,604.586 1</b>	<b>0.8424</b>		<b>2,625.645 5</b>

**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

## Chino Parcel Delivery (Operations - Trucks)

### San Bernardino-South Coast County, Winter

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	476.29	1000sqft	10.93	476,290.00	0
Other Asphalt Surfaces	4,266.76	1000sqft	52.19	4,266,760.00	0

### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

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

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Lot Acreage based on Site Plan.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Operations Run Only.

Operational Off-Road Equipment - Operational Equipment List provided by the Client.

Fleet Mix - Operations Run Only.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblFleetMix	HHD	0.06	0.16
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.61
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblLandUse	LotAcreage	97.95	52.19
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	89.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	88.70
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	2.65
tblVehicleTrips	SU_TR	1.68	2.65
tblVehicleTrips	WD_TR	1.68	2.65

## 2.0 Emissions Summary

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## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible][illegible]

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Energy	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937
Mobile	24.4141	605.2580	253.8675	2.1067	98.9273	5.5036	104.4309	28.2024	5.2613	33.4636		218,549.9572	218,549.9572	4.7776		218,669.3968
Offroad	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.5861	2,604.5861	0.8424		2,625.6455
<b>Total</b>	<b>38.5764</b>	<b>623.3593</b>	<b>262.5068</b>	<b>2.1352</b>	<b>98.9273</b>	<b>6.2177</b>	<b>105.1450</b>	<b>28.2024</b>	<b>5.9199</b>	<b>34.1223</b>		<b>221,467.2231</b>	<b>221,467.2231</b>	<b>5.6287</b>	<b>5.7100e-003</b>	<b>221,609.6436</b>

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

**2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Energy	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
Mobile	24.4141	605.2580	253.8675	2.1067	98.9273	5.5036	104.4309	28.2024	5.2613	33.4636		218,549.9572	218,549.9572	4.7776		218,669.3968
Offroad	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.5861	2,604.5861	0.8424		2,625.6455
<b>Total</b>	<b>38.5755</b>	<b>623.3516</b>	<b>262.5003</b>	<b>2.1351</b>	<b>98.9273</b>	<b>6.2171</b>	<b>105.1444</b>	<b>28.2024</b>	<b>5.9193</b>	<b>34.1217</b>		<b>221,458.0120</b>	<b>221,458.0120</b>	<b>5.6285</b>	<b>5.5400e-003</b>	<b>221,600.3778</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.98</b>	<b>0.00</b>

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	9/14/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0



## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

**Acres of Paving: 52.19****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.4141	605.2580	253.8675	2.1067	98.9273	5.5036	104.4309	28.2024	5.2613	33.4636		218,549.9572	218,549.9572	4.7776		218,669.3968
Unmitigated	24.4141	605.2580	253.8675	2.1067	98.9273	5.5036	104.4309	28.2024	5.2613	33.4636		218,549.9572	218,549.9572	4.7776		218,669.3968

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,262.17	1,262.17	1,262.17	40,751,382	40,751,382
Total	1,262.17	1,262.17	1,262.17	40,751,382	40,751,382

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	88.70	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.610000	0.000000	0.230000	0.160000	0.000000	0.000000	0.000000	0.000000	0.000000

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
NaturalGas Unmitigated	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2648.96	0.0286	0.2597	0.2182	1.5600e-003		0.0197	0.0197		0.0197	0.0197		311.6418	311.6418	5.9700e-003	5.7100e-003	313.4937
<b>Total</b>		<b>0.0286</b>	<b>0.2597</b>	<b>0.2182</b>	<b>1.5600e-003</b>		<b>0.0197</b>	<b>0.0197</b>		<b>0.0197</b>	<b>0.0197</b>		<b>311.6418</b>	<b>311.6418</b>	<b>5.9700e-003</b>	<b>5.7100e-003</b>	<b>313.4937</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.57066	0.0277	0.2520	0.2117	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.4307	302.4307	5.8000e-003	5.5400e-003	304.2279
<b>Total</b>		<b>0.0277</b>	<b>0.2520</b>	<b>0.2117</b>	<b>1.5100e-003</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0192</b>	<b>0.0192</b>		<b>302.4307</b>	<b>302.4307</b>	<b>5.8000e-003</b>	<b>5.5400e-003</b>	<b>304.2279</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
Unmitigated	12.5224	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0459	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
<b>Total</b>	<b>12.5224</b>	<b>4.5000e-003</b>	<b>0.4874</b>	<b>4.0000e-005</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.0380</b>	<b>1.0380</b>	<b>2.7800e-003</b>		<b>1.1076</b>

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.9418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0459	4.5000e-003	0.4874	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0380	1.0380	2.7800e-003		1.1076
<b>Total</b>	<b>12.5224</b>	<b>4.5000e-003</b>	<b>0.4874</b>	<b>4.0000e-005</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.7500e-003</b>	<b>1.7500e-003</b>		<b>1.0380</b>	<b>1.0380</b>	<b>2.7800e-003</b>		<b>1.1076</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	8.00	365	200	0.39	Diesel



## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Winter

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	1.6113	17.8371	7.9337	0.0269		0.6925	0.6925		0.6371	0.6371		2,604.586 1	2,604.586 1	0.8424		2,625.645 5
<b>Total</b>	<b>1.6113</b>	<b>17.8371</b>	<b>7.9337</b>	<b>0.0269</b>		<b>0.6925</b>	<b>0.6925</b>		<b>0.6371</b>	<b>0.6371</b>		<b>2,604.586 1</b>	<b>2,604.586 1</b>	<b>0.8424</b>		<b>2,625.645 5</b>

**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## **APPENDIX 3.5:**

### **CALEEMOD OPERATIONS (TRACTOR PARKING) EMISSIONS MODEL OUTPUTS**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

**Chino Parcel Delivery (Off-Site Tractor Parking)**  
**San Bernardino-South Coast County, Summer****1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

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

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use -

Construction Phase - Operations (mobile) Run Only.

Off-road Equipment - Operations (mobile) Run Only.

Trips and VMT - Operations (mobile) Run Only.

Vehicle Trips - Information provided by the Client.

Fleet Mix - HHD trucks only.

Consumer Products - Operations (mobile) Run Only.

Area Coating - Operations (mobile) Run Only.

Solid Waste - Operations (mobile) Run Only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	50	0
tblAreaCoating	Area_EF_Residential_Interior	50	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	0.00	1.00
tblConstructionPhase	PhaseEndDate	9/13/2018	9/14/2018
tblFleetMix	HHD	0.06	1.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblVehicleTrips	CW_TL	16.60	0.25
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	421.00
tblVehicleTrips	SU_TR	0.00	421.00
tblVehicleTrips	WD_TR	0.00	421.00

## 2.0 Emissions Summary

---

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible][illegible]

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9142	47.8389	4.4473	0.0688	0.0920	0.0176	0.1096	0.0252	0.0169	0.0421		7,277.398 1	7,277.398 1	1.2256		7,308.037 3
<b>Total</b>	<b>0.9142</b>	<b>47.8389</b>	<b>4.4474</b>	<b>0.0688</b>	<b>0.0920</b>	<b>0.0176</b>	<b>0.1096</b>	<b>0.0252</b>	<b>0.0169</b>	<b>0.0421</b>		<b>7,277.398 3</b>	<b>7,277.398 3</b>	<b>1.2256</b>	<b>0.0000</b>	<b>7,308.037 5</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.9142	47.8389	4.4473	0.0688	0.0920	0.0176	0.1096	0.0252	0.0169	0.0421		7,277.398 1	7,277.398 1	1.2256		7,308.037 3
<b>Total</b>	<b>0.9142</b>	<b>47.8389</b>	<b>4.4474</b>	<b>0.0688</b>	<b>0.0920</b>	<b>0.0176</b>	<b>0.1096</b>	<b>0.0252</b>	<b>0.0169</b>	<b>0.0421</b>		<b>7,277.398 3</b>	<b>7,277.398 3</b>	<b>1.2256</b>	<b>0.0000</b>	<b>7,308.037 5</b>



## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	9/14/2018	5	1	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

**3.1 Mitigation Measures Construction****3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9142	47.8389	4.4473	0.0688	0.0920	0.0176	0.1096	0.0252	0.0169	0.0421		7,277.398 1	7,277.398 1	1.2256		7,308.037 3
Unmitigated	0.9142	47.8389	4.4473	0.0688	0.0920	0.0176	0.1096	0.0252	0.0169	0.0421		7,277.398 1	7,277.398 1	1.2256		7,308.037 3

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	421.00	421.00	421.00	38,311	38,311
Total	421.00	421.00	421.00	38,311	38,311

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	0.25	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**



## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Summer

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

**Chino Parcel Delivery (Off-Site Tractor Parking)**  
**San Bernardino-South Coast County, Winter**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

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

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use -

Construction Phase - Operations (mobile) Run Only.

Off-road Equipment - Operations (mobile) Run Only.

Trips and VMT - Operations (mobile) Run Only.

Vehicle Trips - Information provided by the Client.

Fleet Mix - HHD trucks only.

Consumer Products - Operations (mobile) Run Only.

Area Coating - Operations (mobile) Run Only.

Solid Waste - Operations (mobile) Run Only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	50	0
tblAreaCoating	Area_EF_Residential_Interior	50	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	0.00	1.00
tblConstructionPhase	PhaseEndDate	9/13/2018	9/14/2018
tblFleetMix	HHD	0.06	1.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblVehicleTrips	CW_TL	16.60	0.25
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	421.00
tblVehicleTrips	SU_TR	0.00	421.00
tblVehicleTrips	WD_TR	0.00	421.00

## 2.0 Emissions Summary

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## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible][illegible]

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.0332	45.7993	6.7111	0.0602	0.0920	0.0218	0.1138	0.0252	0.0209	0.0461		6,363.3080	6,363.3080	1.3871		6,397.9846
<b>Total</b>	<b>1.0332</b>	<b>45.7993</b>	<b>6.7112</b>	<b>0.0602</b>	<b>0.0920</b>	<b>0.0218</b>	<b>0.1138</b>	<b>0.0252</b>	<b>0.0209</b>	<b>0.0461</b>		<b>6,363.3083</b>	<b>6,363.3083</b>	<b>1.3871</b>	<b>0.0000</b>	<b>6,397.9849</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.0332	45.7993	6.7111	0.0602	0.0920	0.0218	0.1138	0.0252	0.0209	0.0461		6,363.3080	6,363.3080	1.3871		6,397.9846
<b>Total</b>	<b>1.0332</b>	<b>45.7993</b>	<b>6.7112</b>	<b>0.0602</b>	<b>0.0920</b>	<b>0.0218</b>	<b>0.1138</b>	<b>0.0252</b>	<b>0.0209</b>	<b>0.0461</b>		<b>6,363.3083</b>	<b>6,363.3083</b>	<b>1.3871</b>	<b>0.0000</b>	<b>6,397.9849</b>

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	9/14/2018	5	1	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

**3.1 Mitigation Measures Construction****3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>



## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0332	45.7993	6.7111	0.0602	0.0920	0.0218	0.1138	0.0252	0.0209	0.0461		6,363.3080	6,363.3080	1.3871		6,397.9846
Unmitigated	1.0332	45.7993	6.7111	0.0602	0.0920	0.0218	0.1138	0.0252	0.0209	0.0461		6,363.3080	6,363.3080	1.3871		6,397.9846

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	421.00	421.00	421.00	38,311	38,311
Total	421.00	421.00	421.00	38,311	38,311

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	0.25	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Winter

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## **APPENDIX 3.6:**

### **CALEEMOD OPERATIONS (ANCILLARY BUILDING) EMISSIONS MODEL OUTPUTS**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

## Chino Parcel Delivery (Ancillary Buildings)

### San Bernardino-South Coast County, Summer

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	26.53	1000sqft	0.61	26,529.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - As per information provided by the Client, the ancillary buildings will not generate additional traffic.

Energy Mitigation -

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	9/27/2018	9/14/2018
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 2.0 Emissions Summary

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## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible][illegible]

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5929	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
Energy	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3582	17.3582	3.3000e-004	3.2000e-004	17.4614
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.5945</b>	<b>0.0145</b>	<b>0.0149</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>17.3640</b>	<b>17.3640</b>	<b>3.5000e-004</b>	<b>3.2000e-004</b>	<b>17.4676</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5929	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
Energy	1.5400e-003	0.0140	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8452	16.8452	3.2000e-004	3.1000e-004	16.9453
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.5945</b>	<b>0.0141</b>	<b>0.0145</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.0800e-003</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>1.0800e-003</b>	<b>1.0800e-003</b>		<b>16.8510</b>	<b>16.8510</b>	<b>3.4000e-004</b>	<b>3.1000e-004</b>	<b>16.9515</b>

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.01	2.97	2.42	11.11	0.00	2.70	2.70	0.00	2.70	2.70	0.00	2.95	2.95	2.86	3.13	2.95

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	9/14/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

**3.1 Mitigation Measures Construction****3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**



## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5400e-003	0.0140	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8452	16.8452	3.2000e-004	3.1000e-004	16.9453
NaturalGas Unmitigated	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3582	17.3582	3.3000e-004	3.2000e-004	17.4614

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	147.545	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3582	17.3582	3.3000e-004	3.2000e-004	17.4614
<b>Total</b>		<b>1.5900e-003</b>	<b>0.0145</b>	<b>0.0122</b>	<b>9.0000e-005</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>		<b>17.3582</b>	<b>17.3582</b>	<b>3.3000e-004</b>	<b>3.2000e-004</b>	<b>17.4614</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0.143184	1.5400e-003	0.0140	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8452	16.8452	3.2000e-004	3.1000e-004	16.9453
<b>Total</b>		<b>1.5400e-003</b>	<b>0.0140</b>	<b>0.0118</b>	<b>8.0000e-005</b>		<b>1.0700e-003</b>	<b>1.0700e-003</b>		<b>1.0700e-003</b>	<b>1.0700e-003</b>		<b>16.8452</b>	<b>16.8452</b>	<b>3.2000e-004</b>	<b>3.1000e-004</b>	<b>16.9453</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5929	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
Unmitigated	0.5929	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
<b>Total</b>	<b>0.5929</b>	<b>3.0000e-005</b>	<b>2.7300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.8100e-003</b>	<b>5.8100e-003</b>	<b>2.0000e-005</b>		<b>6.2000e-003</b>

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
<b>Total</b>	<b>0.5929</b>	<b>3.0000e-005</b>	<b>2.7300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.8100e-003</b>	<b>5.8100e-003</b>	<b>2.0000e-005</b>		<b>6.2000e-003</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Summer

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

## Chino Parcel Delivery (Ancillary Buildings)

### San Bernardino-South Coast County, Winter

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	26.53	1000sqft	0.61	26,529.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - As per information provided by the Client, the ancillary buildings will not generate additional traffic.

Energy Mitigation -

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	9/27/2018	9/14/2018
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

**2.0 Emissions Summary**

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## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible][illegible]

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5929	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
Energy	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3582	17.3582	3.3000e-004	3.2000e-004	17.4614
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.5945</b>	<b>0.0145</b>	<b>0.0149</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>17.3640</b>	<b>17.3640</b>	<b>3.5000e-004</b>	<b>3.2000e-004</b>	<b>17.4676</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5929	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
Energy	1.5400e-003	0.0140	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8452	16.8452	3.2000e-004	3.1000e-004	16.9453
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.5945</b>	<b>0.0141</b>	<b>0.0145</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.0800e-003</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>1.0800e-003</b>	<b>1.0800e-003</b>		<b>16.8510</b>	<b>16.8510</b>	<b>3.4000e-004</b>	<b>3.1000e-004</b>	<b>16.9515</b>

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.01	2.97	2.42	11.11	0.00	2.70	2.70	0.00	2.70	2.70	0.00	2.95	2.95	2.86	3.13	2.95

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	9/14/2018	5	1	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

**3.1 Mitigation Measures Construction****3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5400e-003	0.0140	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8452	16.8452	3.2000e-004	3.1000e-004	16.9453
NaturalGas Unmitigated	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3582	17.3582	3.3000e-004	3.2000e-004	17.4614

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	147.545	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		17.3582	17.3582	3.3000e-004	3.2000e-004	17.4614
<b>Total</b>		<b>1.5900e-003</b>	<b>0.0145</b>	<b>0.0122</b>	<b>9.0000e-005</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>		<b>17.3582</b>	<b>17.3582</b>	<b>3.3000e-004</b>	<b>3.2000e-004</b>	<b>17.4614</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0.143184	1.5400e-003	0.0140	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003		16.8452	16.8452	3.2000e-004	3.1000e-004	16.9453
<b>Total</b>		<b>1.5400e-003</b>	<b>0.0140</b>	<b>0.0118</b>	<b>8.0000e-005</b>		<b>1.0700e-003</b>	<b>1.0700e-003</b>		<b>1.0700e-003</b>	<b>1.0700e-003</b>		<b>16.8452</b>	<b>16.8452</b>	<b>3.2000e-004</b>	<b>3.1000e-004</b>	<b>16.9453</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**



## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5929	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
Unmitigated	0.5929	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
<b>Total</b>	<b>0.5929</b>	<b>3.0000e-005</b>	<b>2.7300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.8100e-003</b>	<b>5.8100e-003</b>	<b>2.0000e-005</b>		<b>6.2000e-003</b>

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8100e-003	5.8100e-003	2.0000e-005		6.2000e-003
<b>Total</b>	<b>0.5929</b>	<b>3.0000e-005</b>	<b>2.7300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>5.8100e-003</b>	<b>5.8100e-003</b>	<b>2.0000e-005</b>		<b>6.2000e-003</b>

**7.0 Water Detail****7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Winter

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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