Colony Commerce Center East Specific Plan

AIR QUALITY IMPACT ANALYSIS

CITY OF ONTARIO

PREPARED BY:

Haseeb Qureshi
hqureshi@urbanxroads.com
(949) 336-5987

Alyssa Tamase
atamase@urbanxroads.com

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LIST OF ABBREVIATED TERMS

(1)	Reference
µg/m3	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
NO2	Nitrogen Dioxide
NOx	Oxides of Nitrogen
Pb	Lead
PM10	Particulate Matter 10 microns in diameter or less
PM2.5	Particulate Matter 2.5 microns in diameter or less
PPM	Parts Per Million
Project	Colony Commerce Center East Specific Plan
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, Project construction-source emissions for PA1 and PA2 would exceed the numerical thresholds of significance established by the South Coast Air Quality Management District (SCAQMD) for emissions of volatile organic compounds (VOCs) and oxides of nitrogen (NOx). Mitigation Measures (MMs) AQ-1 and AQ-2 are recommended to reduce the severity of the impacts. After implementation of MMs AQ-1 and AQ-2, a less than significant impact would occur for Project-related construction-source emissions.

Project construction-source emissions for PA3 would not exceed the numerical threshold of significance established by the SCAQMD for any criteria pollutants. MMs AQ-1 and AQ-2 would further reduce emissions to less than significant levels. Therefore, Project construction-source emissions for PA3 would be less than significant with and without implementation of MMs AQ-1 and AQ-2.

It should be noted that construction for PA3 is anticipated to occur after the construction of PA1 and PA2.

LOCALIZED IMPACTS

For localized emissions, the Project would not exceed the SCAQMD's localized significance threshold for any criteria pollutant. Implementation of MM AQ-1 would further reduce localized emissions to less than significant levels. Therefore, a less than significant impact would occur with and without implementation of MM AQ-1.

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, Project operational-source emissions for PA1 and PA2 would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NO_x. Even with implementation of MMs AQ-3 and AQ-4, Project operational source emissions would still exceed the applicable regional SCAQMD thresholds for emissions of NOx. Moreover, approximately 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 Ontario) can

substantively or materially affect reductions in Project mobile-source emissions. Project operational-source NOx emissions exceedances for PA1 and PA2 are therefore considered significant and unavoidable.

Project operational-source emissions for PA3 would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NOx. Even with implementation of MMs AQ-3 and AQ-4, Project operational source emissions would still exceed the applicable regional SCAQMD thresholds for emissions of NOx. Neither the Project Applicant nor the Lead Agency (City of Ontario) can substantively or materially affect reductions in Project mobile-source emissions. Project operational-source NOx emissions exceedances for PA3 are therefore considered significant and unavoidable.

Project horizon year (2040) operational-source emissions (PA1, PA2, and PA3) would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NOx. Even with implementation of MMs AQ-3 and AQ-4, Project operational source emissions would exceed the applicable regional SCAQMD thresholds for emissions of NOx. Neither the Project Applicant nor the Lead Agency (City of Ontario) can substantively or materially affect reductions in Project mobile-source emissions. Project buildout operational-source NOx emissions 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.

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 Colony Commerce Center East Specific Plan ("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 Colony Commerce Center East Specific Plan site is located on the southwest corner of Archibald Avenue and Merrill Avenue in the City of Ontario, as shown on Exhibit 1-A. Interstate 15 (I-15) is located approximately two miles east of the Project site. Existing land uses in the Project study area include existing agricultural uses north, west, and south of the Project site, and residential homes east across Archibald Avenue.

1.2 PROJECT DESCRIPTION

The proposed Project would develop and operate the Colony Commerce East Specific Plan. The Specific Plan contains three Planning Areas. Planning Area (PA) 1 and PA2 of the Specific Plan are anticipated to be operational by 2019. The remaining PA3 is proposed to be developed with up to 231,195 square feet (sf) of industrial use; however, the timeline for development is unknown, and is dependent upon economic conditions and full occupancy of PA1 and PA2. This analysis assumes that PA-3 would be developed and operational by year 2040.

As indicated on Exhibit 1-B, the total development of PA1 and PA2 is proposed to consist of up to 175,330-sf of manufacturing use (25 percent of the square footage for Buildings 1 through 8), 525,991-sf of warehousing use (75 percent of the square footage for Buildings 1 through 8), and 998,680-sf high-cube warehouse/distribution center use (Building 9). Similarly, PA3 would develop consist of up to 57,799-sf of manufacturing use (25 percent of the square footage), 173,396-sf of warehousing use (75 percent of the square footage).

As part of the Project's design, all on-site outdoor cargo handling equipment (CHE) (including yard trucks, hostlers, yard goats, pallet jacks, forklifts, and other on-site equipment) will be powered by non-diesel fueled engines. As such, emissions associated with CHE have been modeled in CalEEMod as powered by CNG as a conservative measure.

According to the *Colony Commerce Center East Specific Plan Traffic Impact Analysis* prepared by Urban Crossroads, Inc., under year 2019 conditions, the Project is expected to generate a net total of approximately 3,003 trip-ends per day (actual vehicles) with 279 AM peak hour trips and 316 PM peak hour trips. Under Horizon Year 2040 conditions, the Project is expected to generate a net total of approximately 3,533 trip-ends per day (actual vehicles) with 343 AM peak hour trips and 385 PM peak hour trips. (1) The net Project trip generation includes 764 truck trip-ends per day from the proposed buildings within the Project site under Opening Year 2019 conditions, and 873 truck trip-ends per day under Horizon Year 2040 conditions. This AQIA study relies on the net Project trips to accurately account for the effect of individual truck trips on the study area roadway network.

EXHIBIT 1-A: LOCATION MAP

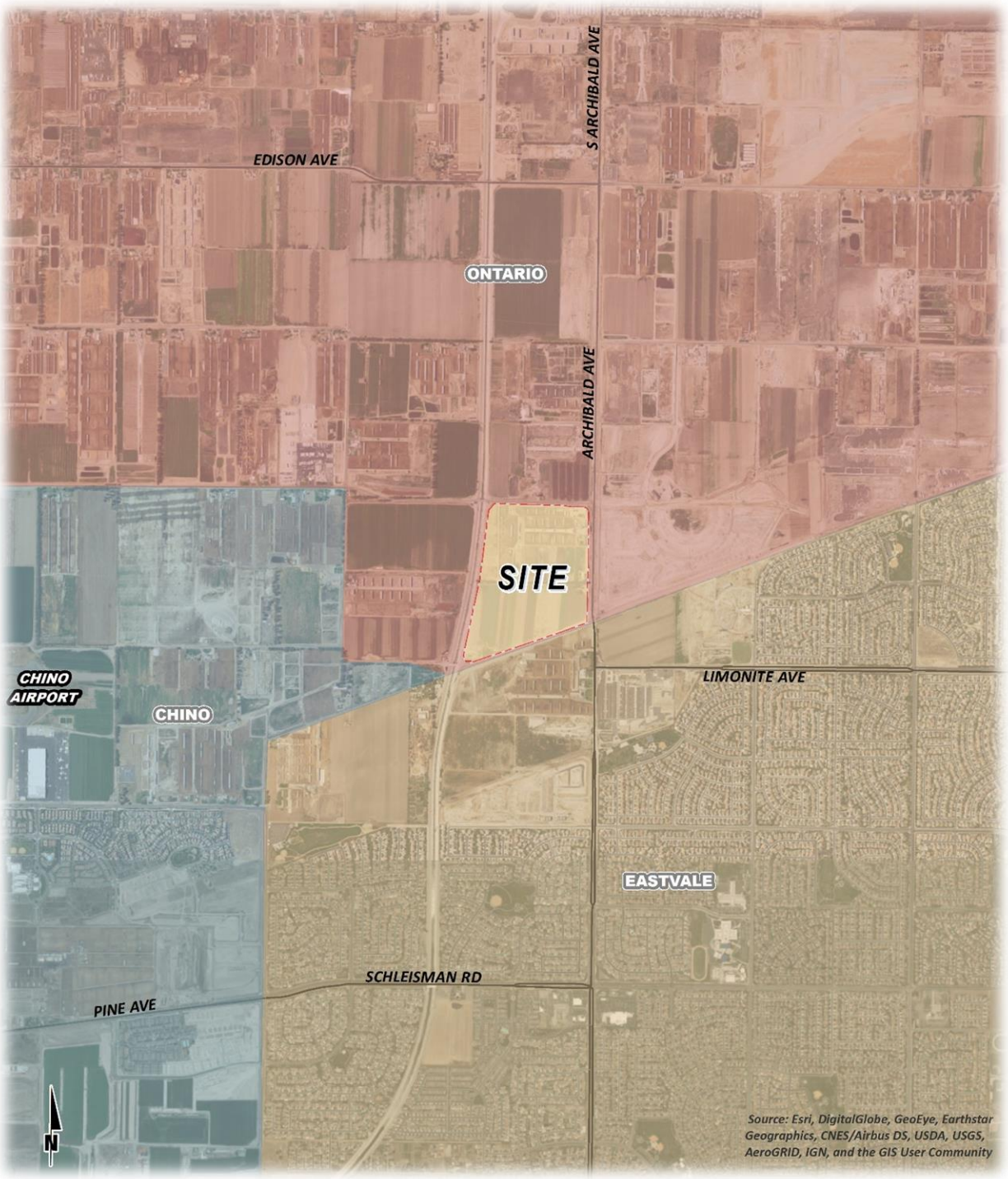
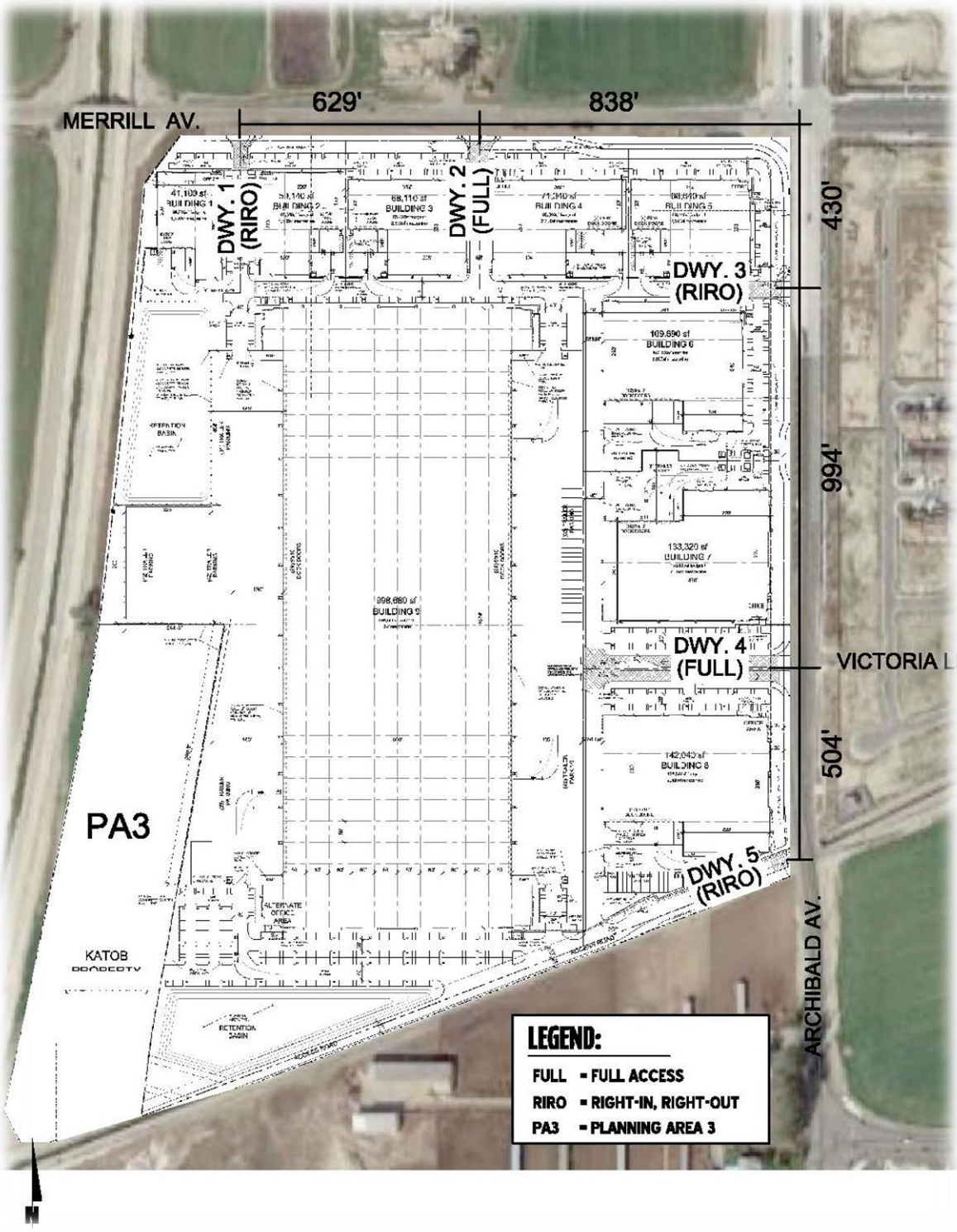


EXHIBIT 1-B: SITE PLAN



1.3 PROJECT DESIGN FEATURES

The Project would implement energy-saving and sustainable design features and operational programs, consistent with the reduction measures set forth in the City of Ontario CAP, to be incorporated into all facilities developed pursuant to the Project. Notably, the Project would comply with the California Green Building Standards Code (CALGreen; CCR, Title 24, Part 11) as implemented by the City of Ontario. The Project also incorporates and expresses the following design features and attributes promoting energy efficiency and sustainability. Because these features/attributes are integral to the Project, and/or are regulatory requirements, they are not considered to be mitigation measures.

- Use of modestly enhanced insulation (walls R-13, roof/attic R-38) for energy efficiency;
- Installation of enhanced window insulation (0.32 U-factor, 0.25 SHGC);
- Use of light-colored roofing with high solar reflectance to reduce heat island effects (CRRC Rated 0.15 aged solar reflectance, 0.75 thermal emittance);
- Implement distribution loss reduction with inspection (HERS Verified Duct Leakage or equivalent);
- Identify opportunities to provide natural lighting to reduce reliance on artificial lighting;
- Install high-efficiency lighting systems with advanced lighting controls (25% of in-unit fixtures considered high efficacy)
- Use energy star commercial appliances in the development including water efficient appliances;
- Align building orientation to take advantage of natural heating, cooling, and lighting conditions;
- Use smart irrigation controllers that automatically adjust frequency/duration of irrigation of landscape areas in response to changing weather conditions;
- Use of recycled water to irrigate landscape areas;
- Use of swaled landscape areas for storm runoff capture and retention/infiltration;
- Choose construction materials and interior finish products with zero or low emissions to improve indoor air quality;
- Provide adequate ventilation and high-efficiency in-duct filtration system;
- Use low- or medium water use, and native plant materials where appropriate; minimize turf areas;
- Provide public charging stations for use by electric vehicles;
- Use low volatile organic compound paints and wallpapers;
- Use recycle base, crushed concrete base, recycle content asphalt, shredded tired in base and asphalt roads, parking areas, and drive aisles where feasible and economically available;
- Use ultra low-flush toilets, low-flow shower heads and other water conserving fixture.

1.4 CONSTRUCTION-SOURCE AIR POLLUTANT EMISSIONS MITIGATION MEASURES

1.4.1 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) (2); Rule 431.2 (Low Sulfur Fuel) (3);

Rule 403 (Fugitive Dust) (4); and Rule 1186 / 1186.1 (Street Sweepers) (5). 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

Measures listed below (or equivalent language) shall appear on all Project grading plans, construction specifications and bid documents, and the City shall ensure such language is incorporated prior to issuance of any development permits.

SCAQMD Rules that are currently applicable during construction activity for this Project include but are not limited to: Rule 1113 (Architectural Coatings) (6); Rule 431.2 (Low Sulfur Fuel); Rule 403 (Fugitive Dust) (7); and Rule 1186 / 1186.1 (Street Sweepers) (8). It should be noted that BACMs are not mitigation as they are standard regulatory requirements.

BACM AQ-1

The following measures shall be incorporated into Project plans and specifications as implementation of Rule 403 (4):

- 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 at least three (3) times daily during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, 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.

BACM AQ-2

The following measures shall be incorporated into Project plans and specifications as implementation of Rule 1113 (9):

- Only "Low-Volatile Organic Compounds" paints (no more than 100 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-3

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 (10).

1.4.2 Other Measures

MM AQ-1

The Project shall exceed the requirements of Rule 1113 by utilizing only "Low-Volatile Organic Compounds" paints that are no more than 50 gram/liter of VOC) applications as specified in the Table of Standards 1 of Rule 1113.

MM AQ-2

During construction activity, all construction equipment greater than 150 horsepower (>150 HP) shall be CARB certified tier 3 or higher.

1.5 Operational-Source Air Pollutant Emissions Mitigation Measures

MM AQ-3

The project will require contractors and building operators (by contract specifications) to ensure that on-road heavy-duty diesel trucks with a gross vehicle weight rating greater than 14,000 pounds will have a 2010 model year engine or newer or will be equipped with a particulate matter trap, as available.

MM AQ-4

The Project shall place signs that identify CARB anti-idling regulations. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for trucks drivers to restrict idling to no more than 3 minutes once the vehicle is stopped, the transmission is set to “neutral” or “park”, and the parking brake is engaged; and 3) telephone numbers of the building facilities manager and CARB to report violations.

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 (11). 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 (12) (13).

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 O3, CO, SO2, NO2, PM10, and PM2.5 are not equaled or exceeded at any time in any consecutive three-year period; and the federal standards (other than O3, PM10, PM2.5, and those based on annual averages or arithmetic mean) are not exceeded more than once per year. The O3 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 PM10, 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 [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

See footnotes on next page …

For more information please call ARB-PIO at (916) 322-2990 **California Air Resources Board (5/4/16)**

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 $\mu g/m^3$ 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°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method 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 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ 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 SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 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 $\mu g/m^3$ 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 (14). In 2015, the federal and state ambient air quality standards (NAAQS and CAAQS) were exceeded on one or more days for ozone, PM10, and PM2.5 at most monitoring locations (15). No areas of the SCAB exceeded federal or state standards for NO2, SO2, CO, sulfates or lead. See Table 2-2, for attainment designations for the SCAB (16) (17). 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	No Standard
Ozone - 8 hour standard	Nonattainment	Nonattainment (Extreme)
PM_{10}	Nonattainment	Attainment (Maintenance)
$PM_{2.5}$	Nonattainment	Nonattainment (Serious)
Carbon Monoxide	Attainment	Attainment (Maintenance)
Nitrogen Dioxide	Attainment	Attainment (Maintenance)
Sulfur Dioxide	Attainment	Attainment
Lead[1]	Attainment	Nonattainment (Partial)

Source: State/Federal designations were taken from http://www.arb.ca.gov/desig/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_{10}) and Ultra-Fine Particulates ($PM_{2.5}$) is the South Coast Air Quality Management District Southwest San Bernardino Valley monitoring station, located approximately 3.78 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_3), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2) is the South Coast Air Quality Management District Northwest San Bernardino Valley monitoring station, located approximately 8.62 miles north of the Project site in Upland (SRA 32) (18). 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 (19) (20). Additionally, data for SO2

[1] 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 SO2 concentrations.

TABLE 2-3: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2013-2015

POLLUTANT	STANDARD	YEAR		
		2013	2014	2015
Ozone (O_3)				
Maximum 1-Hour Concentration (ppm)		0.143	0.126	0.136
Maximum 8-Hour Concentration (ppm)		0.111	0.101	0.106
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	25	34	49
Number of Days Exceeding State 8-Hour Standard	> 0.07 ppm	44	60	69
Number of Days Exceeding Federal 8-Hour Standard	> 0.070 ppm	27	42	53
Number of Days Exceeding Health Advisory	≥ 0.15 ppm	0	0	0
Carbon Monoxide (CO)				
Maximum 1-Hour Concentration (ppm)		3.0	3.0	--
Maximum 8-Hour Concentration (ppm)		1.1	1.2	--
Number of Days Exceeding State 1-Hour Standard	> 20 ppm	0	0	--
Number of Days Exceeding Federal / State 8-Hour Standard	> 9.0 ppm	0	0	0
Number of Days Exceeding Federal 1-Hour Standard	> 35 ppm	0	0	0
Nitrogen Dioxide (NO_2)				
Maximum 1-Hour Concentration (ppm)		0.062	0.074	0.072
Annual Arithmetic Mean Concentration (ppm)		--	0.16	0.015
Number of Days Exceeding State 1-Hour Standard	> 0.18 ppm	0	0	0
Particulate Matter ≤ 10 Microns (PM_{10})				
Maximum 24-Hour Concentration (µg/m3)		115	67	77.7
Number of Samples Exceeding State Standard	> 50 µg/m^3	3	4	--
Number of Samples Exceeding Federal Standard	> 150 µg/m^3	0	0	0
Particulate Matter ≤ 2.5 Microns ($PM_{2.5}$)				
Maximum 24-Hour Concentration (µg/m^3)		49.3	38.4	73.4
Number of Samples Exceeding Federal 24-Hour Standard	> 35 µg/m^3	1	1	--

-- = 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 (SO2): 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 SO2 oxidizes in the atmosphere, it forms sulfates (SO4). Collectively, these pollutants are referred to as sulfur oxides (SOX).
- Nitrogen Oxides (Oxides of Nitrogen, or NOx): Nitrogen oxides (NOx) consist of nitric oxide (NO), nitrogen dioxide (NO2) and nitrous oxide (N2O) and are formed when nitrogen (N2) combines with oxygen (O2). 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. NO2 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, NO2 is the most abundant in the atmosphere. As ambient concentrations of NO2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO2 than those indicated by regional monitors.
- Ozone (O3): Is a highly reactive and unstable gas that is formed when volatile organic compounds (VOCs) and nitrogen oxides (NOX), 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.
- PM10 (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. PM10 also causes visibility reduction and is a criteria air pollutant.
- PM2.5 (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 SO2 release from power plants and industrial facilities and nitrates that are formed from NOX 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. PM2.5 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 O3, 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. ROGs are a criteria pollutant since they are a precursor to O3, 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 sub-groups 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 (PM10 and PM2.5) 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 PM2.5 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 PM10 and PM2.5.

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 NO2 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 NO2 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 NO2 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 NO2.

Sulfur Dioxide

A few minutes of exposure to low levels of SO2 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 SO2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO2.

Animal studies suggest that despite SO2 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 SO2 levels. In these studies, efforts to separate the effects of SO2 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 O3, CO, NOx, SO2, PM10, and lead (12). 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 (21). 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 O3, NO2, SO2, PM10, CO, PM2.5, and lead. The NAAQS were amended in July 1997 to include an additional standard for O3 and to adopt a NAAQS for PM2.5. 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 (NOx). NOx is a collective term that includes all forms of nitrogen oxides (NO, NO2, NO3) 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 (13) (12).

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 ROGs, NOx, CO and PM10. 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 (22). 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 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 Air Quality Management Plans (AQMPs) and by utilizing uniform CEQA review throughout the 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," (23). Ozone, NOx, VOC, and CO have been decreasing in the Basin since 1975 and are projected to continue to decrease through 2020 (24).

These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled in the Basin continue to increase, NOx and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NOx 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. The overall trends of PM10 and PM2.5 in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM10 have remained somewhat constant in the Basin and direct emissions of PM2.5 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.

Ozone levels in the SCAB have decreased substantially over the last 30 years as shown in Table 2-4 (25). Today, the maximum measured concentrations are approximately one-third of concentrations within the late 70's.

As with other pollutants, the most recent PM10 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 µg/m³ in 1989 to 51.7 µg/m³ in 2015. 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 PM10 standards. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM10 standards has also shown an overall drop. During 1995, there were 25 calculated days above the national standard. By 2015, there was 6.6 calculated national standard exceedance days (26).

Table 2-6 shows the most recent 24-hour average $PM_{2.5}$ concentrations (national) in the SCAB from 1999 through 2014. Overall, the annual average concentrations have decreased by almost 52 percent. The calculated number of days above the national standard also decreased, from about 88 days in 1999 to about 17 days in 2015. The SCAB is currently designated as nonattainment for the State and national $PM_{2.5}$ standards. Measures adopted as part of the upcoming $PM_{2.5}$ SIP, as well as programs to reduce ozone and diesel PM will help in reducing public exposure to $PM_{2.5}$ in this region.

The most recent carbon dioxide concentrations in the SCAB 1986 are shown in Table 2-7 (27). Carbon monoxide 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 2-4: SOUTH COAST AIR BASIN OZONE TREND

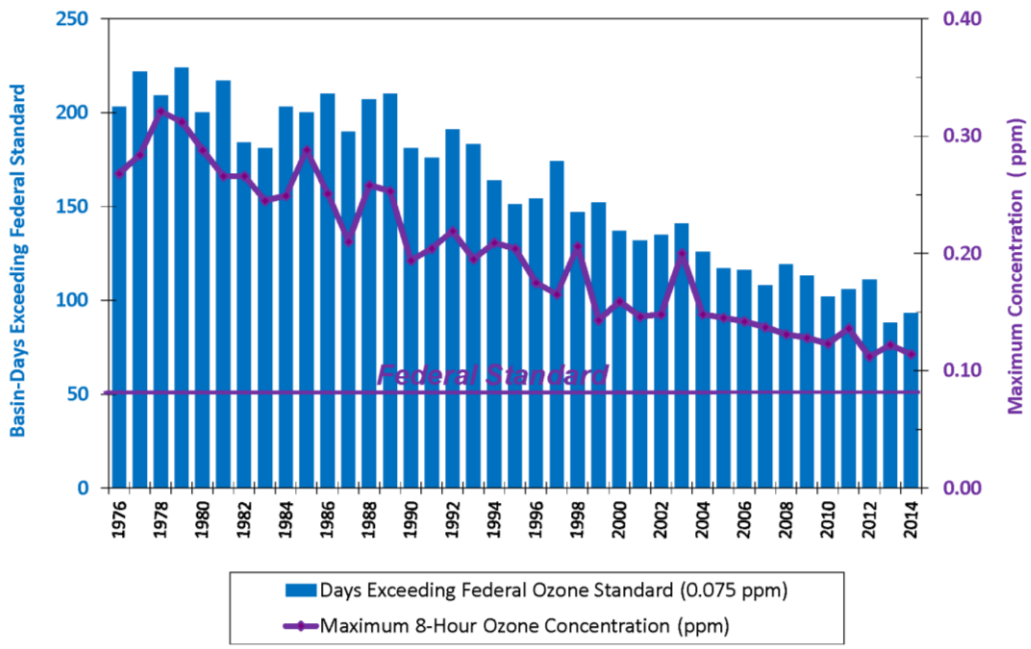


TABLE 2-5: SOUTH COAST AIR BASIN PM_{10} TREND

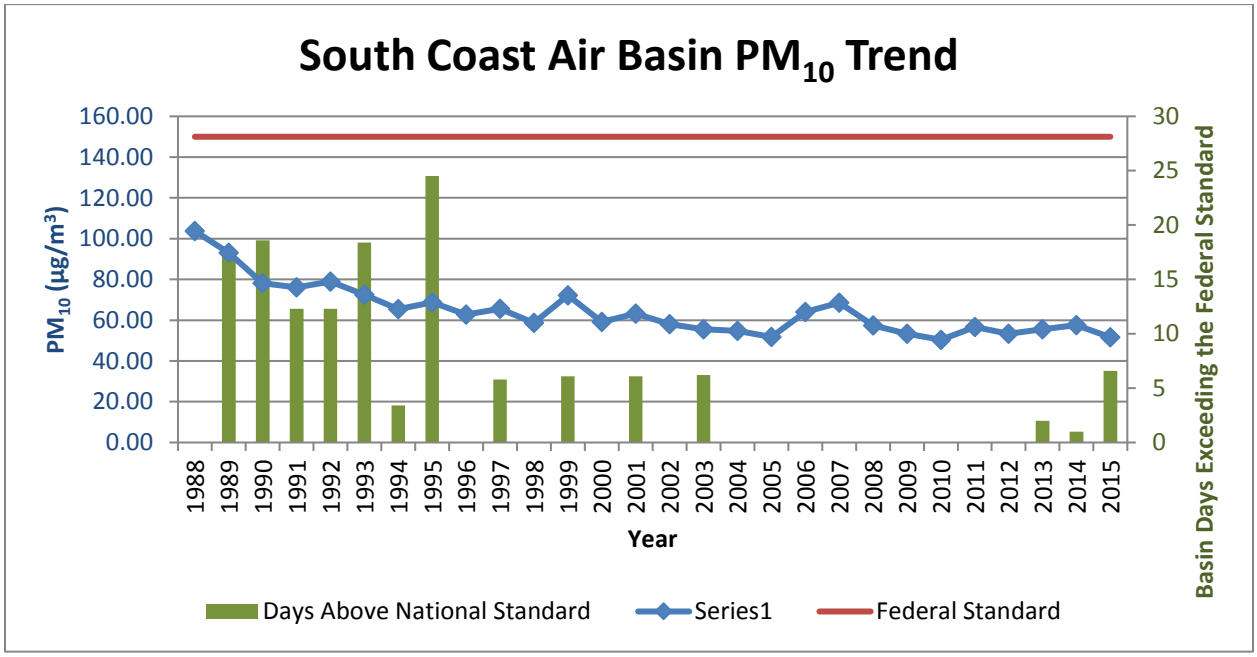


TABLE 2-6: SOUTH COAST AIR BASIN $PM_{2.5}$ TREND

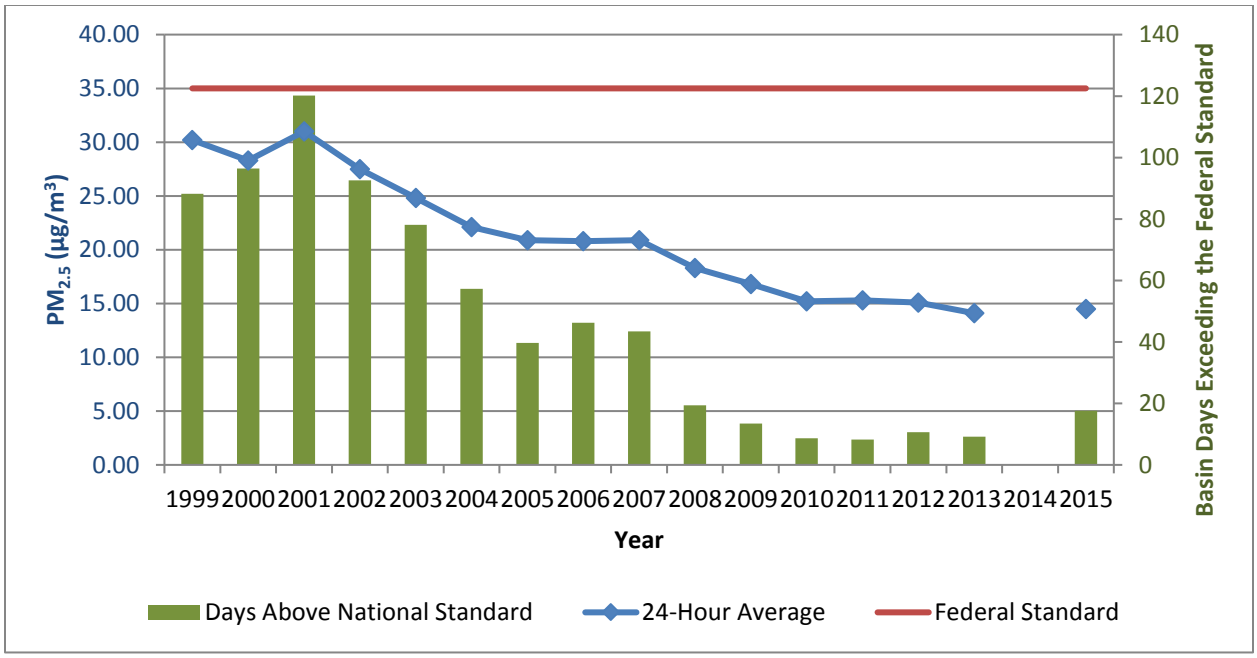
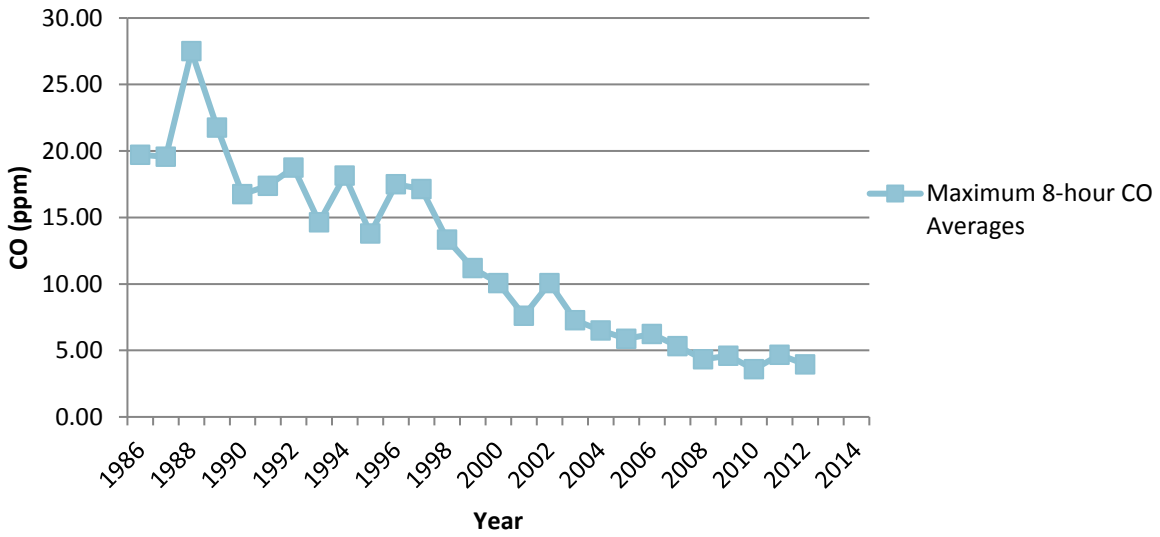


TABLE 2-7: SOUTH COAST AIR BASIN CARBON MONOXIDE TREND

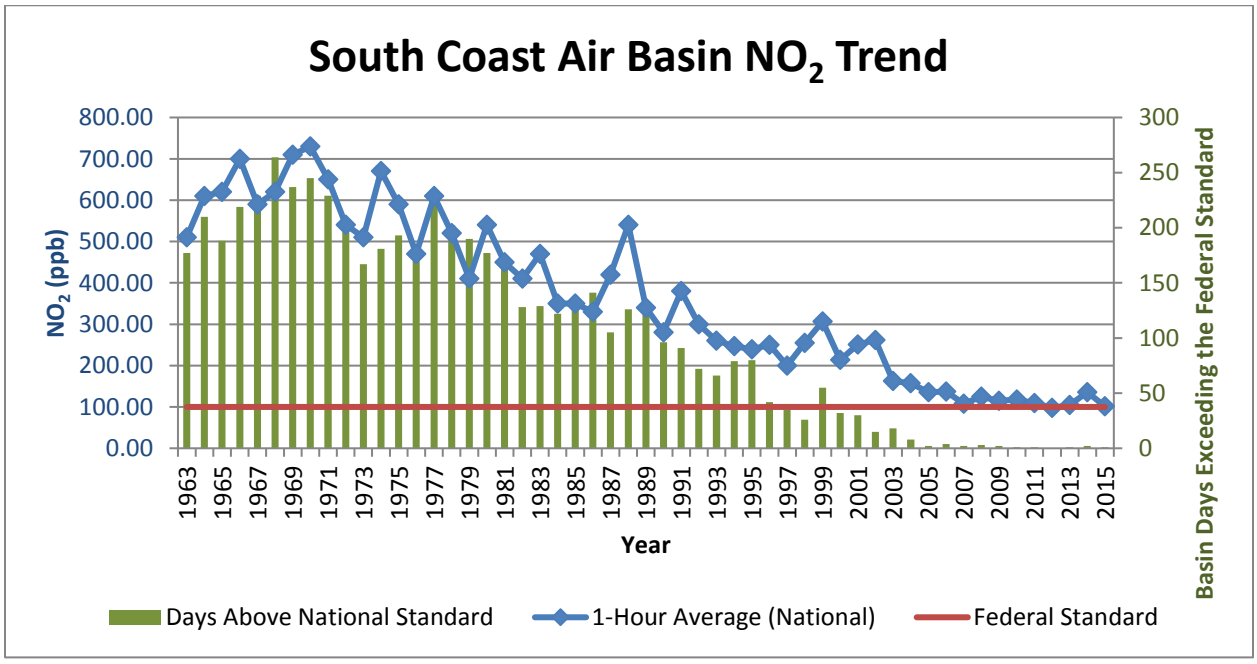


Part of the control process of the SCAQMD's duty to greatly improve the air quality in the Basin is the uniform CEQA review procedures required by SCAQMD's CEQA Handbook (28). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by 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_2 data for the SCAB is shown in Table 2-8 (27). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour average for 2015 was approximately 80 percent lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 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_2 is formed from NO_x 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_x emissions. These measures are expected to bring the South Coast into attainment of the State annual average standard.

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. These reports have been published over the last 13 years. The latest State of the Air Report compiled for the Basin was in 2010 (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 189.5 day per year in the initial 2000 State of the Air report (1996–1998) to 141.8 in the 2006–2008 report. The region has seen dramatic reduction in particle pollution since the initial State of the Air report (30).

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

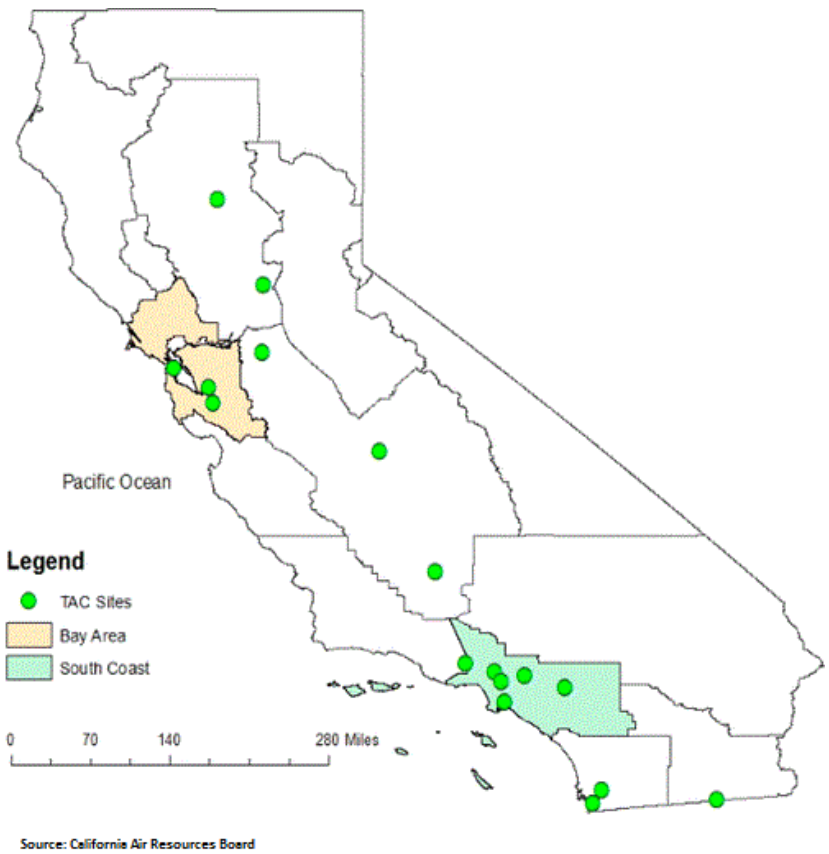


TOXIC AIR CONTAMINANTS (TACS) TRENDS

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 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 (31). The seven TACs studied shown below 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[2]. 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.

EXHIBIT 2-A: CALIFORNIA TOXIC AIR CONTAMINANT SITES



Mobile Source TACs

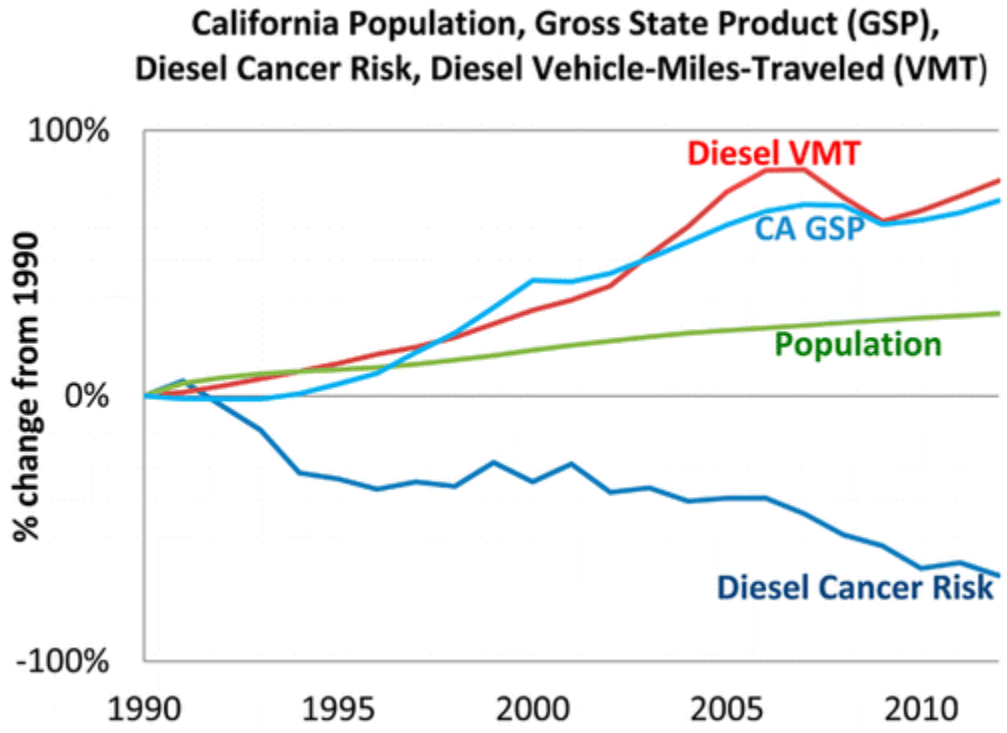
The CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. Since 1996, light-duty vehicles sold in California are equipped with California's second-generation On-Board Diagnostic

[2] 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.

(OBD-II) system as a result of about half of total car emissions stemming from emissions control device malfunctions. 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 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%, 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

Stationary Source TACs

Various regulations led to a decrease in perchloroethylene and hexavalent chromium, with a 92% and 86% decline, respectively. By 1993, several local air districts required dry cleaning businesses to use a carbon absorber and refrigerated condenser, as well as, dry-to-dry machines and closed-looped machines instead of vented transfer machines. Starting in 2003, California provided financial incentives for dry cleaners to use other solvents and soon after, the CARB banned the use of perchloroethylene in automotive products, aerosol coatings, and most consumer products. In 2007, CARB's dry cleaning regulation was amended to require phase-out of

perchloroethylene machines by 2023, which would further reduce emissions to minimal levels (31).

Hexavalent chromium emissions began to decline in 1988 with the ARB-regulated regulations contributing to more than 97% emission reduction within four years. The various regulations include prohibiting the use of hexavalent chromium in cooling towers (1989), in motor vehicle and mobile equipment coatings (2001), and in thermal spraying operations (2005). By 2005, hexavalent chromium emissions were 99.97% less than in 1987, far exceeding expectations. In 2006, hexavalent chromium emissions were further reduced with the 2006 ARB regulation requiring add-on air pollution control devices and chemical fume suppressants.

Secondary TACs

Between 1996-2012, ambient concentrations of formaldehyde and acetaldehyde declined 22% and 21%, respectively. The decline in these TACs are attributed from increasingly stringent motor vehicle exhaust emission standards, vehicle fleet turnover, fuel reformulation, and the switch from MTBE (formaldehyde precursor) to ethanol in gasoline (31).

As previously discussed, ambient and emissions levels of TACs have reduced significantly from 1990-2012. The overall declining trend in TACs is expected to continue in California from implementation of toxic air controls.

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 (HHDT), 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 977.48 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 for PA1 and PA2 is currently utilized for agricultural operations and dairy and/or cattle operations, which have altered previous natural landscape conditions. At present, the site contains an active dairy, various sheds and outbuildings, above ground storage (ASTs), residential uses ancillary to the site's dairy operations, and an agriculture area. Based on information provided by the client, the Project site contains approximately 1,400 milking cows and 400 young cows. Air quality emissions associated with the dairy operations are shown below in Table 2-9. For the purposes of this analysis, credit for existing cow emissions has been taken for Project operational activity.

TABLE 2-9: EXISTING COW AIR QUALITY EMISSIONS

Source[1]	Emissions (pounds per day)	
	VOC	PM10
Milking/Mature Cows	49.10	13.65
Heifer/Young Cows	4.82	3.90
Total Cows	53.92	17.56

[1] Dairy Cow Emission Factors based on AQMD's Guidelines for Calculating Emissions from Dairy and Poultry Operations (December 2016) (35)

The Project site for PA3 is currently vacant. As such, existing air quality conditions at the Project site for PA3 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 (36). 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.

TABLE 3-1: MAXIMUM DAILY EMISSIONS THRESHOLDS[A]

Pollutant	Construction	Operations
Regional Thresholds		
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

[A]: Based on SCAQMD Air Quality Significance Thresholds, March 2015

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 14, 2016, 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™) v2016.3.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (NO_x, VOC, PM_{10}, $PM_{2.5}$, SO_x, and CO) and greenhouse gas (GHG) emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (37). 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 3.1.

3.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of CO, VOCs, NOx, SOx, PM10, and PM2.5. Construction related emissions are expected from the following construction activities:

- Demolition
- Grading
- Building Construction
- Architectural Coating
- Paving
- Construction Workers Commuting

Construction for PA1 and PA2 is expected to commence in 2018 and will last into 2019. The duration of construction activity was estimated based on consultation with the client and a 2019 opening year. The construction schedule utilized in the analysis, shown in Table 3-1, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[3] A detailed summary of construction equipment for PA 1 and PA 2, shown in Table 3-2, was estimated based on consultation with the client. 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.

Construction for PA3 would not occur concurrently with construction of PA1 and PA2; It is anticipated to occur after construction of PA1 and PA2. The duration of construction activity and summary of construction equipment for PA3, are based on CalEEMod model defaults, which anticipates a shorter construction duration and fewer construction equipment pieces than construction for PA1 and PA2. The estimated construction duration and construction equipment list for PA3 is provided in Appendix 3.1 of this analysis.

TABLE 3-2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	06/01/2018	06/28/2018	20
Grading	06/29/2018	08/30/2018	45

[3] As shown in the California Emissions Estimator Model (CalEEMod) User's Guide Version 2016.3.1, Table 3.4 "OFFROAD Equipment Emission Factors" 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.

Building Construction	08/31/2018	10/24/2019	300
Architectural Coating	03/29/2019	10/26/2019	150
Paving	10/25/2019	12/26/2019	45

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS

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

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. According to information provided by the client, the Project site is expected to require 10,000 cubic yards of soil export. The Project site for PA1 and PA2 currently contains existing residential homes, storage and dairy canopies. Based on consultation with the client and as a conservative measure, the Project site for PA1 and PA2 is anticipated to require 100,000 square feet of demolition. The Project site for PA3 is currently vacant, and therefore would not require demolition.

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 is unknown. However impacts associated with these expected activities are not expected to exceed the emissions identified for Project-related construction activities. As such, no impacts beyond what has already been identified in this report are expected to occur.

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) (2); Rule 431.2 (Low Sulfur Fuel) (3); Rule 403 (Fugitive Dust) (38); and Rule 1186 / 1186.1 (Street Sweepers) (5). As such, credit for Rule 1113 and Rule 403 have been taken.

Impacts without Mitigation for PA1 and PA2

The estimated maximum daily construction emissions for PA 1 and PA 2 without mitigation are summarized on Table 3-4. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction for PA1 and PA2 would exceed criteria pollutant thresholds established by the SCAQMD for emissions of VOCs and NOx.

TABLE 3-4: MAXIMUM DAILY PEAK CONSTRUCTION EMISSIONS SUMMARY FOR PA1 AND PA2 (WITHOUT MITIGATION)

Year	Emissions (pounds per day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
2017	15.65	186.99	106.79	0.29	20.65	12.85
2018	80.72	101.18	115.04	0.32	19.85	7.62
Maximum Daily Emissions	**80.72**	**186.99**	**115.04**	**0.32**	**20.65**	**12.85**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**NO**	**NO**	**NO**	**NO**

Impacts with Mitigation for PA1 and PA2

The estimated maximum daily construction emissions for PA1 and PA2 with mitigation are summarized on Table 3-5. Detailed construction model outputs are presented in Appendix 3.1. MMs AQ-1 and AQ-2 are recommended to reduce the severity of the impacts. After implementation of MMs AQ-1 and AQ-2, Project construction-source emissions for PA1 and PA2 would not exceed the applicable SCAQMD thresholds for any criteria pollutants. Therefore, a less than significant impact would occur with implementation of MMs AQ-1 and AQ-2.

TABLE 3-5: MAXIMUM DAILY PEAK CONSTRUCTION EMISSIONS SUMMARY (WITH MITIGATION)

Year	Emissions (pounds per day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
2017	13.52	90.75	107.30	0.29	16.93	8.88
2018	66.94	93.02	116.14	0.32	19.46	7.29
Maximum Daily Emissions	**66.94**	**93.02**	**116.14**	**0.32**	**19.46**	**8.88**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Impacts without Mitigation for PA3

The estimated maximum daily construction emissions for PA3 without mitigation are summarized on Table 3-6. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction for PA1 and PA2 would not exceed the applicable SCAQMD thresholds for any criteria pollutants.

TABLE 3-6: MAXIMUM DAILY PEAK CONSTRUCTION EMISSIONS SUMMARY FOR PA3 (WITHOUT MITIGATION)

Year	Emissions (pounds per day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Maximum Daily Emissions	**67.40**	**52.37**	**25.56**	**0.05**	**21.15**	**12.63**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Impacts with Mitigation for PA3

The estimated maximum daily construction emissions for PA3 with mitigation are summarized on Table 3-7. Detailed construction model outputs are presented in Appendix 3.1. MMs AQ-1 and AQ-2 are recommended to reduce the severity of the impacts. Implementation of MMs AQ-1 and AQ-2 would further reduce emissions to less than significant levels. Therefore, a less than significant impact would occur with and without implementation of MMs AQ-1 and AQ-2.

TABLE 3-7: MAXIMUM DAILY PEAK CONSTRUCTION EMISSIONS SUMMARY FOR PA3 (WITH MITIGATION)

Year	Emissions (pounds per day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Maximum Daily Emissions	**67.40**	**52.37**	**25.56**	**0.05**	**10.13**	**41.95**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of VOC, NOX, CO, SOX, PM10, and PM2.5. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Equipment 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, shedders/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 mobile source air quality impacts are dependent on both overall daily vehicle trip generation and the effect of the Project on peak hour traffic volumes and traffic operations in the vicinity of the Project. The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. Trip characteristics available from the report, Colony Commerce Center East Specific Plan Traffic Impact Analysis (Urban Crossroads) 2017 were utilized in this analysis (39). It should be noted that the Project's traffic study presents the total Project vehicle trips in terms of Passenger Car Equivalents (PCEs) in an effort to recognize and acknowledge the effects of heavy vehicles at the study area intersections. Notwithstanding, for purposes of the study, the PCE trips were not used. Rather, to more accurately estimate and model vehicular-source emissions, the actual number of vehicles, by vehicle classification (e.g., passenger cars (including light trucks), heavy trucks) were used in the analysis.

For purposes of this analysis, the following ITE land use codes and vehicle mixes have been utilized.

- ITE land use code 140 (Manufacturing) has been used to derive site specific trip generation estimates for up to 25 percent of the total square footage for Buildings 1 through 8. The ITE Trip Generation Manual includes very limited data regarding the types of vehicles that are generated for manufacturing uses (passenger cars and various sizes of trucks). As such, data regarding the vehicle mix has been obtained from a separate report; the City of Fontana Truck Trip Generation Study (August 2003) for the manufacturing uses proposed as part of the Project. Buildings 1 through 8 have been identified as a mix of manufacturing and warehousing uses. The "Light Industrial" vehicle mix data has been utilized as a vehicle mix for manufacturing is not readily available.
- ITE land use code 150 (Warehousing) has been used to derive site specific trip generation estimates for up to 75 percent of the total square footage for Buildings 1 through 8. The ITE Trip Generation Manual includes very limited data regarding the types of vehicles that are generated for warehousing uses (passenger cars and various sizes of trucks). Data regarding the vehicle mix has therefore been obtained from a separate report; the City of Fontana Truck Trip Generation Study (August 2003) for the warehousing use proposed as part of the Project. Buildings 1 through 8 have been identified as a mix of manufacturing and warehousing uses. The "Heavy Warehouse" vehicle mix data has been utilized for the warehouse use.
- ITE land use code 154 (High-Cube Transload and Short-Term Storage Warehouse) has been used to derive site specific trip generation estimates for Building 9. Total vehicle mix percentages were also obtained from the ITE High Cube Warehouse Vehicle Trip Generation Analysis in conjunction with the South Coast Air Quality Management District's (SCAQMD) recommended truck mix, by axle type. (8) The SCAQMD is currently recommending their truck mix by axle-type to better quantify trip rates associated with local warehouse and distribution projects, as truck emission represent more than 90 percent of air quality impacts from these projects. This recommended procedure has been utilized for the purposes of this analysis in effort to be consistent with other technical studies being prepared for the Project. The ITE High Cube Warehouse Vehicle Trip Generation Analysis shows that the total trucks for high-cube transload warehouses if 31.2%. Trip generation for heavy trucks was further broken down by truck type (or axle type). The total truck

percentage is comprised of 3 different truck types: 2-axle, 3-axle, and 4+-axle trucks. For the purposes of this analysis, the percentage of trucks, by axle type, were obtained from the SCAQMD interim recommended truck mix. The SCAQMD has recently performed surveys of existing facilities and compiled the data to provide interim guidance on the mix of heavy trucks for these types of high-cube warehousing/distribution facilities. Based on this interim guidance from the SCAQMD, the following truck fleet mix was utilized for the purposes of estimating the truck trip generation for the site (for without cold storage): 16.7% of the total trucks as 2-axle trucks, 20.7% of the total trucks as 3-axle trucks, and 62.6% of the total trucks as 4+-axle trucks.

3.5.3.1 Trip Length

Background

A technical deficiency inherent in calculating the projected vehicle emissions associated with any project is related to the estimation of trip length and vehicle miles traveled (VMT). VMT for a given project is calculated by the total number of vehicle trips to/from the Project x average trip length. This method of estimating VMT for use in calculating vehicle emissions likely results in the over-estimation and double-counting of emissions because, for a distribution warehouse center such as the Project, the land use is likely to attract (divert) existing vehicle trips that are already on the circulation system as opposed to generating new trips. In this regard, the Project would, to a large extent, redistribute existing mobile-source emissions rather than generate additional emissions within the Basin. As such, the estimation of the Colony Commerce Center East Specific Plan Project's vehicular-source emissions are likely overstated in that no credit for, or reduction in, emissions is assumed based on diversion of existing trips.

Provided below is a summary of the VMT recommendations of the SCAQMD and SCAG, followed by a description of the methodology used to calculate the VMT rates used in this AQIA.

SCAQMD Recommendation

In the last five years, the SCAQMD has provided numerous comments on the trip length for warehouse/distribution and industrial land use projects (40). The SCAQMD asserts that the model-default trip length in CalEEMod™ and the URBan EMISsions (URBEMIS) 2007 model (version 9.2.4) would underestimate emissions. The SCAQMD asserts that for warehouse, distribution center, and industrial land use projects, most of the heavy-duty trucks would be hauling consumer goods, often from the Ports of Long Beach and Los Angeles (POLA and POLB) and/or to destinations outside of California. The SCAQMD states that for this reason, the CalEEMod™ and the URBan EMISsions model default trip length (approximately 12.6 miles) would not be representative of activities at like facilities. The SCAQMD generally recommends the use of a 40-mile one-way trip length.

Southern California Association of Government (SCAG) Heavy Duty Truck Model

SCAG is comprised of six counties (Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura) and 190 cities in Southern California, and is the organization charged with addressing and resolving short- and long-term regional policy issues. The SCAG region also consists of 14 sub-regional entities recognized by the Regional Council as partners in the regional policy

planning process. The SCAG region has more than 19 million residents and encompasses more than 38,000 square miles, representing the largest and most diverse region in the country.

SCAG maintains a regional transportation model. In its most recent (2008) transportation validation for the 2003 Regional Model, SCAG indicates the average internal truck trip length for the SCAG region is 5.92 miles for Light Duty Trucks, 13.06 miles for Medium Duty Trucks, and 24.11 miles for Heavy Duty Trucks.

Approach for Analysis of the Project

Trip lengths and VMT estimates employed in this AQIA report generate vehicular-source emissions that would represent a maximum impact scenario. Other Environmental Impact Reports (EIRs) for similar land use projects within the region have utilized these same or similar estimates (41) (42) (43). To maintain analytic consistency and establish the maximum impact scenario noted above, the following approach has been utilized in calculating emissions associated with vehicles accessing the Project.

For passenger car trips, the San Bernardino County CalEEMod default for a one-way trip length of 16.6 miles was assumed. For heavy duty trucks, an average trip length was derived from distances from the Project site to the limits of the South Coast Air Basin (SCAB) as follows. It is appropriate to terminate the VMT calculation at the boundary of the SCAB because any activity beyond that boundary would be speculative, this approach is also consistent with professional industry practice.

- Project site to the Port of Los Angeles/Long Beach: 55 miles;
- Project site to Banning Pass: 54 miles;
- Project site to San Diego County line: 54 miles;
- Project site to Cajon Pass: 30 miles;
- Project site to downtown Los Angeles: 43 miles.

Assuming that 50% of all delivery trips will travel to and from the Project and the Port of Los Angeles/Long Beach, and the remainder as distribution trips to all other locations, the average truck trip length is calculated as 50 miles.

Two separate model runs for the warehouse land uses (Manufacturing, Warehousing, and High-Cube Warehouse) were utilized in order to more accurately model emissions resulting from vehicle operations. The first runs analyzed passenger car emissions, which incorporated a default trip length of 16.6 miles for passenger cars within San Bernardino County and a fleet mix of 100% Light-Duty-Auto vehicles (LDA). The second runs analyzed truck emissions, which incorporated an average truck trip length of 50 miles based on the average long-haul truck trips and a fleet mix of the following based on land use:

- Manufacturing: 37% LHD, 18% MHD, and 44% HHD
- Warehousing: 26% LHD, 23% MHD, 51% HHD
- High-Cube Warehouse: 16% LHD, 21% MHD, and 63% HHD

The estimated emissions resulting from vehicle operations are summarized in Table 3-7 (presented later in this report). Detailed emission calculations are provided in Appendix 3.1.

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 warehouse 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. Yard trucks have a horsepower (hp) range of approximately 175 hp to 200 hp (44). Based on the latest available information from SCAQMD (45); warehouse projects typically have 3.6 yard trucks per million square feet of building space. For this particular Project, on-site modeled operational equipment includes six (6) yard tractors operating at 4 hours a day for 365 days of the year[4] (46). In addition to the use of yard trucks operating at the Project site, forklifts are a common piece of equipment used in warehouse operations. However, for purposes of the AQIA, forklifts are not included in the calculations since there are exhaust emissions associated with the forklifts as they are assumed to be electric consistent with industry standards.

As part of the Project's design, all on-site outdoor cargo handling equipment (CHE) (including yard trucks, hostlers, yard goats, pallet jacks, forklifts, and other on-site equipment) will be powered by non-diesel fueled engines. As such, emissions associated with CHE have been modeled in CalEEMod as powered by CNG as a conservative measure.

3.5.5 Operational Emissions Summary

Impacts without Mitigation for PA1 and PA2

Project operational-source emissions for PA1 and PA2 without mitigation are summarized on Table 3-8. It should be noted credit taken for existing dairy cow emissions has been taken. As indicated, net Project emissions would exceed regional thresholds of significance established by the SCAQMD for emissions of NOx.

Impacts with Mitigation for PA1 and PA2

Project operational-source emissions for PA1 and PA2 with mitigation are summarized on Table 3-9. MMs AQ-3 and AQ-4 are recommended to reduce the severity of the impacts. Even with implementation of MMs AQ-3 and AQ-4, net Project emissions would still exceed regional

[4] 4 hour daily on-site operation of the yard trucks is based on the Southern California International Gateway Recirculated Draft EIR. Table C1.2-BL-17 *Activity Data for Existing Business CHE – 2010 Baseline* indicates that the average annual hours of operation for all diesel Container Handling Equipment, Forklifts, and Yard Tractors totaled 72,187 annual operating hours. The total number of pieces of equipment equals 52. As such, 72,187/52 = 1,388 annual hours per piece of equipment. 1,388 annual hours per piece of equipment/365 days = an average of 3.80 hours per day per piece of equipment. As a conservative measure this is rounded up to 4 hours for analytical purposes.

thresholds of significance established by the SCAQMD for emissions of NOx. Project operational-source NOx emissions exceedances of applicable SCAQMD regional thresholds are therefore considered significant and unavoidable. Moreover, and as also discussed previously, approximately 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 Ontario) can substantively or materially affect reductions in Project mobile-source emissions. Therefore, Project operational-source NOx emissions exceedances of applicable SCAQMD regional thresholds would be considered significant and unavoidable.

Impacts without Mitigation for PA3

Project operational-source emissions for PA3 without mitigation are summarized on Table 3-10. As indicated, Project operational-source emissions for PA3 would exceed regional thresholds of significance established by the SCAQMD for emissions of NOx.

Impacts with Mitigation for PA3

Project operational-source emissions for PA3 with mitigation are summarized on Table 3-11. MMs AQ-3 and AQ-4 are recommended to reduce the severity of the impacts. Even with implementation of MMs AQ-3 and AQ-4, Project buildout operational-source emissions would still exceed regional thresholds of significance established by the SCAQMD for emissions of NOx. Project operational-source NOx emissions exceedances of applicable SCAQMD regional thresholds are therefore considered significant and unavoidable. Neither the Project Applicant nor the Lead Agency (City of Ontario) can substantively or materially affect reductions in Project mobile-source emissions. Therefore, Project operational-source NOx emissions exceedances of applicable SCAQMD regional thresholds would be considered significant and unavoidable.

TABLE 3-8: SUMMARY OF OPERATIONAL EMISSIONS FOR PA1 AND PA2 (IMPACTS WITHOUT MITIGATION) (1 OF 2)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Manufacturing (25% of Buildings 1-8)						
Area Source	3.92	1.70E-04	0.02	0.00	6.00E-05	6.00E-05
Energy Source	0.17	1.53	1.29	9.20E-03	0.12	0.12
Mobile (Trucks)	1.68	52.23	13.46	0.18	6.99E+00	2.30E+00
Mobile (Passenger Cars)	0.94	1.36E+00	19.13	6.00E-02	6.87E+00	1.85E+00
Subtotal Manufacturing (25% of Buildings 1-8)	**6.71**	**55.12**	**33.90**	**0.25**	**13.98**	**4.27**
Warehousing (75% of Buildings 1-8)						
Area Source	13.26	5.00E-04	0.05	0.00	1.90E-04	1.90E-04
Energy Source	0.03	0.29	0.24	1.74E-03	0.02	0.02
Mobile (Trucks)	2.39	68.1	18.35	0.24	8.62E+00	2.84E+00
Mobile (Passenger Cars)	1.28	1.84E+00	25.95	8.00E-02	9.32E+00	2.50E+00
Subtotal Manufacturing (25% of Buildings 1-8)	**16.96**	**70.23**	**44.59**	**0.32**	**17.96**	**5.36**
High-Cube Warehouse (Building 9)						
Area Source	25.28	9.60E-04	0.10	0.00	3.70E-04	3.70E-04
Energy Source	0.06	0.55	0.46	3.30E-03	0.04	0.04
Mobile (Trucks)	5.85	177.93	41.16	0.64	2.10E+01	6.88E+00
Mobile (Passenger Cars)	1.68	2.41E+00	33.97	1.10E-01	1.22E+01	3.28E+00
On-Site Equipment	0.96	1.23E+01	4.76	2.00E-02	4.00E-01	3.70E-01
Subtotal Manufacturing (25% of Buildings 1-8)	**33.83**	**193.16**	**80.45**	**0.77**	**33.66**	**10.57**
Total PA1 and PA2	**57.50**	**318.51**	**158.94**	**1.34**	**65.60**	**20.20**
Existing Cow Emissions	**-53.92**	**0.00**	**0.00**	**0.00**	**-17.56**	**-3.69**
Net Project Emissions (Project - Existing)	**3.58**	**318.51**	**158.94**	**1.34**	**48.04**	**16.51**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

TABLE 3-8: SUMMARY OF OPERATIONAL EMISSIONS FOR PA1 AND PA2 (IMPACTS WITHOUT MITIGATION) (2 OF 2)

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Manufacturing (25% of Buildings 1-8)						
Area Source	4.42	1.70E-04	0.02	0.00	6.00E-05	6.00E-05
Energy Source	0.17	1.53	1.29	9.20E-03	0.12	0.12
Mobile (Trucks)	1.7	54.19	13.72	0.17	6.99E+00	2.30E+00
Mobile (Passenger Cars)	0.77	1.42E+00	15.43	6.00E-02	6.87E+00	1.85E+00
Subtotal Manufacturing (25% of Buildings 1-8)	**7.06**	**57.14**	**30.46**	**0.24**	**13.98**	**4.27**
Warehousing (75% of Buildings 1-8)						
Area Source	13.26	5.00E-04	0.05	0.00	1.90E-04	1.90E-04
Energy Source	0.03	0.29	0.24	1.74E-03	0.02	0.02
Mobile (Trucks)	2.42	70.28	18.74	0.24	8.61E+00	2.84E+00
Mobile (Passenger Cars)	1.05	1.93E+00	20.92	8.00E-02	9.32E+00	2.50E+00
Subtotal Manufacturing (25% of Buildings 1-8)	**16.76**	**72.50**	**39.95**	**0.32**	**17.95**	**5.36**
High-Cube Warehouse (Building 9)						
Area Source	25.28	9.60E-04	0.10	0.00	3.70E-04	3.70E-04
Energy Source	0.06	0.55	0.46	3.30E-03	0.04	0.04
Mobile (Trucks)	5.92	183.2	42.51	0.63	2.10E+01	6.88E+00
Mobile (Passenger Cars)	1.37	2.52E+00	27.95	1.00E-01	1.22E+01	3.32E+00
On-Site Equipment	0.96	1.23E+01	4.76	2.00E-02	4.00E-01	3.70E-01
Subtotal Manufacturing (25% of Buildings 1-8)	**33.59**	**198.54**	**75.78**	**0.75**	**33.71**	**10.61**
Total PA1 and PA2	**57.41**	**328.18**	**146.19**	**1.31**	**65.64**	**20.24**
Existing Cow Emissions	**-53.92**	**0.00**	**0.00**	**0.00**	**-17.56**	**-3.69**
Net Project Emissions (Project - Existing)	**3.49**	**328.18**	**146.19**	**1.31**	**48.08**	**16.55**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

TABLE 3-9: SUMMARY OF OPERATIONAL EMISSIONS FOR PA1 AND PA2 (IMPACTS WITH MITIGATION) (1 OF 2)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Manufacturing (25% of Buildings 1-8)						
Area Source	3.92	1.70E-04	0.02	0.00	6.00E-05	6.00E-05
Energy Source	0.17	1.53	1.29	9.20E-03	0.12	0.12
Mobile (Trucks)	1.68	27.87	13.436	0.18	6.99E+00	2.30E+00
Mobile (Passenger Cars)	0.94	1.36E+00	19.13	6.00E-02	6.87E+00	1.85E+00
Subtotal Manufacturing (25% of Buildings 1-8)	**6.71**	**30.76**	**33.88**	**0.25**	**13.98**	**4.27**
Warehousing (75% of Buildings 1-8)						
Area Source	11.76	5.00E-04	0.05	0.00	1.90E-04	1.90E-04
Energy Source	0.03	0.29	0.24	1.74E-03	0.02	0.02
Mobile (Trucks)	2.38	39.62	18.24	0.24	8.57E+00	2.82E+00
Mobile (Passenger Cars)	1.28	1.84E+00	25.95	8.00E-02	9.32E+00	2.50E+00
Subtotal Manufacturing (25% of Buildings 1-8)	**15.45**	**41.75**	**44.48**	**0.32**	**17.91**	**5.34**
High-Cube Warehouse (Building 9)						
Area Source	22.32	9.60E-04	0.10	0.00	3.70E-04	3.70E-04
Energy Source	0.06	0.55	0.46	3.30E-03	0.04	0.04
Mobile (Trucks)	5.85	115.15	41.16	0.64	2.10E+01	6.88E+00
Mobile (Passenger Cars)	1.68	2.41E+00	33.97	1.10E-01	1.22E+01	3.28E+00
On-Site Equipment	0.96	1.23E+01	4.78	2.00E-02	4.00E-01	3.70E-01
Subtotal Manufacturing (25% of Buildings 1-8)	**30.87**	**130.43**	**80.47**	**0.77**	**33.66**	**10.57**
Total PA1 and PA2	**53.03**	**202.94**	**158.83**	**1.34**	**65.55**	**20.18**
Existing Cow Emissions	**-53.92**	**0.00**	**0.00**	**0.00**	**-17.56**	**-3.69**
Net Project Emissions (Project - Existing)	**-0.89**	**202.94**	**158.83**	**1.34**	**47.99**	**16.49**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

TABLE 3-9: SUMMARY OF OPERATIONAL EMISSIONS FOR PA1 AND PA2 (IMPACTS WITH MITIGATION) (2 OF 2)

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Manufacturing (25% of Buildings 1-8)						
Area Source	3.92	1.70E-04	0.02	0.00	6.00E-05	6.00E-05
Energy Source	0.17	1.53	1.29	9.20E-03	0.12	0.12
Mobile (Trucks)	1.7	28.37	13.72	0.18	6.99E+00	2.30E+00
Mobile (Passenger Cars)	0.77	1.42E+00	15.43	6.00E-02	6.87E+00	1.85E+00
Subtotal Manufacturing (25% of Buildings 1-8)	**6.56**	**31.32**	**30.46**	**0.25**	**13.98**	**4.27**
Warehousing (75% of Buildings 1-8)						
Area Source	11.76	5.00E-04	0.05	0.00	1.90E-04	1.90E-04
Energy Source	0.03	0.29	0.24	1.74E-03	0.02	0.02
Mobile (Trucks)	2.4	40.3	18.63	0.24	8.57E+00	2.82E+00
Mobile (Passenger Cars)	1.05	1.93E+00	20.92	8.00E-02	9.32E+00	2.50E+00
Subtotal Manufacturing (25% of Buildings 1-8)	**15.24**	**42.52**	**39.84**	**0.32**	**17.91**	**5.34**
High-Cube Warehouse (Building 9)						
Area Source	22.32	9.60E+00	0.10	0.00	3.70E-04	3.70E-04
Energy Source	0.06	0.55	0.46	3.30E-03	0.04	0.04
Mobile (Trucks)	5.92	117.06	42.51	0.63	2.10E+01	6.88E+00
Mobile (Passenger Cars)	1.37	2.52E+00	27.95	1.00E-01	1.22E+01	3.32E+00
On-Site Equipment	0.96	1.23E+01	4.76	2.00E-02	4.00E-01	3.70E-01
Subtotal Manufacturing (25% of Buildings 1-8)	**30.63**	**142.05**	**75.78**	**0.75**	**33.71**	**10.61**
Total PA1 and PA2	**52.43**	**215.89**	**146.08**	**1.32**	**65.60**	**20.22**
Existing Cow Emissions	**-53.92**	**0.00**	**0.00**	**0.00**	**-17.56**	**-3.69**
Net Project Emissions (Project - Existing)	**-1.49**	**215.89**	**146.08**	**1.32**	**48.04**	**16.53**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

TABLE 3-10: SUMMARY OF OPERATIONAL EMISSIONS FOR PA3 (IMPACTS WITHOUT MITIGATION)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Area Source	4.95	2.20E-04	0.02	0.00	9.00E-05	9.00E-05
Energy Source	0.06	0.58	0.49	3.51E-03	0.04	0.04
Mobile (Trucks)	2.54	73.65	18.82	0.24	8.40	2.80
Mobile (Passenger Cars)	0.17	0.28	5.19	0.03	5.32	1.42
Total Maximum Daily Emissions	**7.72**	**74.51**	**24.52**	**0.27**	**13.76**	**4.26**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Area Source	4.95	2.20E-04	0.02	0.00	9.00E-05	9.00E-05
Energy Source	0.06	0.58	0.49	3.51E-03	0.04	0.04
Mobile (Trucks)	2.57	75.99	19.25	0.24	8.40	2.81
Mobile (Passenger Cars)	0.14	0.29	4.10	0.03	5.32	1.42
Total Maximum Daily Emissions	**7.72**	**76.86**	**23.86**	**0.27**	**13.76**	**4.27**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

TABLE 3-11: SUMMARY OF OPERATIONAL EMISSIONS FOR PA3 (IMPACTS WITH MITIGATION)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Area Source	4.95	2.10E-04	0.02	0.00	8.00E-05	8.00E-05
Energy Source	0.07	0.60	0.50	3.61E-03	0.05	0.05
Mobile (Trucks)	0.60	12.98	4.76	0.13	4.84	1.40
Mobile (Passenger Cars)	2.55	16.40	39.73	0.12	8.68	2.41
Total Maximum Daily Emissions	**8.17**	**29.98**	**45.01**	**0.25**	**13.57**	**3.86**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Area Source	4.95	2.10E-04	0.02	0.00	8.00E-05	8.00E-05
Energy Source	0.07	0.60	0.50	3.61E-03	0.05	0.05
Mobile (Trucks)	0.60	13.20	4.93	0.13	4.84	1.40
Mobile (Passenger Cars)	2.28	16.75	33.85	0.11	8.68	2.41
Total Maximum Daily Emissions	**7.90**	**30.55**	**39.30**	**0.24**	**13.57**	**3.86**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Impacts without Mitigation for Project Horizon Year (2040)

Project horizon year (2040) operational-source emissions without mitigation are summarized on Table 3-12. As indicated, Project buildout operational-source emissions would exceed regional thresholds of significance established by the SCAQMD for emissions of NOx.

TABLE 3-12: SUMMARY OF OPERATIONAL EMISSIONS FOR HORIZON YEAR (IMPACTS WITHOUT MITIGATION) (1 OF 2)

Operational Activities – Summer Scenario	**Emissions (pounds per day)**					
	VOC	**NO_x**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
PA1 and PA2 Net Maximum Daily Emissions	3.58	328.18	158.94	1.34	48.08	16.55
PA3 Maximum Daily Emissions	7.72	74.51	24.52	0.27	13.76	4.26
Horizon Year Maximum Daily Emissions	**11.30**	**402.69**	**183.46**	**1.61**	**61.84**	**20.81**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**
Operational Activities – Winter Scenario	**Emissions (pounds per day)**					
	VOC	**NO_x**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
PA1 and PA2 Net Maximum Daily Emissions	3.49	328.18	146.19	1.31	48.08	16.55
PA3 Maximum Daily Emissions	7.72	76.86	23.86	0.27	13.76	4.27
Horizon Year Maximum Daily Emissions	**11.21**	**405.04**	**170.05**	**1.58**	**61.84**	**20.82**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

Impacts with Mitigation for Horizon Year (2040)

Project horizon year (2040) operational-source emissions with mitigation are summarized on Table 3-13. MMs AQ-3 and AQ-4 are recommended to reduce the severity of the impacts. Even with implementation of MMs AQ-3 and AQ-4, Project buildout operational-source emissions would still exceed regional thresholds of significance established by the SCAQMD for emissions of NOx. Project operational-source NOx emissions exceedances of applicable SCAQMD regional thresholds are therefore considered significant and unavoidable. Neither the Project Applicant nor the Lead Agency (City of Ontario) can substantively or materially affect reductions in Project mobile-source emissions. Therefore, Project buildout operational-source NOx emissions exceedances of applicable SCAQMD regional thresholds would be considered significant and unavoidable.

TABLE 3-13: SUMMARY OF OPERATIONAL EMISSIONS FOR HORIZON YEAR (IMPACTS WITH MITIGATION)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
PA1 and PA2 Net Maximum Daily Emissions	-0.89	202.94	158.83	1.34	47.99	16.49
PA3 Maximum Daily Emissions	8.17	29.98	45.01	0.25	13.57	3.86
Horizon Year Maximum Daily Emissions	**7.28**	**232.92**	**203.84**	**1.59**	**61.56**	**20.35**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**
Operational Activities – Winter Scenario	**Emissions (pounds per day)**					
	VOC	**NO_x**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
PA1 and PA2 Net Maximum Daily Emissions	-1.49	215.89	146.08	1.32	48.04	16.53
PA3 Maximum Daily Emissions	7.90	30.55	39.03	0.24	13.57	3.86
Horizon Year Maximum Daily Emissions	**6.41**	**246.44**	**185.11**	**1.56**	**61.61**	**20.39**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

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) (47). 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 NO2, 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 PM10 and PM2.5; both of which are non-attainment pollutants.

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4[5]. 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

5 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."

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 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) (48).

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 (NO2), particulate matter ≤ 10 microns (PM10), and particulate matter ≤ 2.5 microns (PM2.5). 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 (49) 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.

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 (50)." 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 3-14 is used to determine the maximum daily disturbed-acreage during site grading for purposes of modeling localized emissions. Based on Table 3-14, the maximum disturbed acreage for PA1 and PA2 would be 8.0 acres per day during the grading phase of construction. It should be noted that the maximum disturbed acreage for PA3 is estimated to be one acre per day during the grading phase of construction. Since the construction of PA1 and PA2 is not anticipated to occur concurrently with the construction of PA3, the LST analysis below, based on a maximum disturbed acreage of 8.0 acres per day, represents a conservative estimate of localized 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.

TABLE 3-14: MAXIMUM DAILY DISTURBED-ACREAGE

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

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.

Sensitive receptors in the vicinity of the Project site are illustrated at Exhibit 3-A, and include a single-family residential home at location R2 and existing agriculture uses at locations R1, R3, and R5. To assess the stationary source operational and construction air impacts, the following 5 sensitive receptor locations, as shown on Exhibit 3-A, were identified.

R1: Located approximately 36 meters/119 feet north of the Project site, R1 represents an existing agricultural use with residential home on Merrill Avenue.

R2: Location R2 represents existing residential homes located roughly 66 meters/217 feet east of the Project site across Archibald Avenue.

R3: Location R3 represents the existing agriculture use situated south of the Project site at approximately 143 meters/469 feet, west of Archibald Avenue.

R4: Location R4 represents the existing agriculture use located southwest of the Project site at approximately 310 meters/1,017 feet, on Moon Place.

R5: Location R5 represents the existing agriculture use located west of the Project site at approximately 620 meters/2,035 feet on Carpenter Avenue.

The nearest sensitive receptor is represented by location R1, which is an existing agricultural use with residential home located approximately 36 meters/119 feet north of the Project site. Therefore, a 36-meter distance is utilized as the nearest potentially affected sensitive receptor distance.

Construction-Source LST Analysis

Although the daily grading area of 8-acres is greater than 5-acres, the SCAQMD mass rate look-up tables will be used to provide a conservative screening analysis of the construction emissions. This is conservative because it estimates emissions of the 8-acre area and concentrates them into a 5-scre site. If the emissions from the 8-acre area are less than the thresholds for a 5-acre area, it can be assured that impacts would les less than significant. As previously noted, a 25-meter receptor distance is utilized to determine the LSTs for emissions of CO, NO2, PM10, and PM2.5.

Impacts without Mitigation

Table 3-15 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Without mitigation, localized construction emissions would exceed the applicable SCAQMD LSTs during grading for emissions of PM10 and PM2.5. Outputs from the model runs for construction LSTs are provided in Appendix 3.2.

TABLE 3-15: CONSTRUCTION LOCALIZED SIGNIFICANCE SUMMARY (WITHOUT MITIGATION)

On-Site Grading Emissions	Emissions (pounds per day)			
	NOx	CO	PM10	PM2.5
Maximum Daily Emissions	**158.47**	**76.68**	**37.23**	**20.14**
SCAQMD Localized Threshold	285	2,538	31	10
Threshold Exceeded?	**NO**	**NO**	**YES**	**YES**

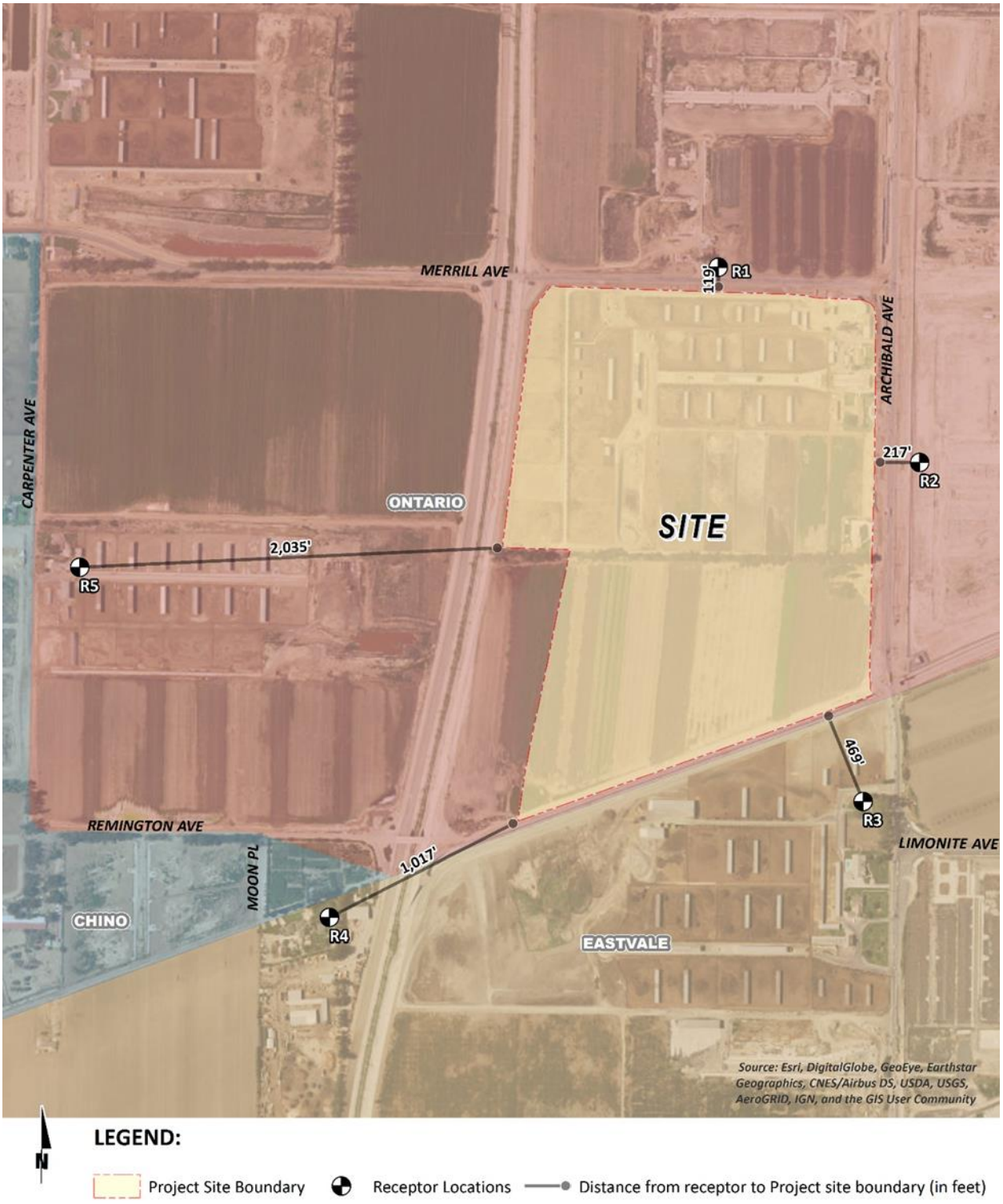
Impacts with Mitigation

Table 3-16 identifies the localized impacts at the nearest receptor location in the vicinity of the Project with implementation of BACM AQ-1. After implementation of BACM AQ-1, construction emissions would not exceed the applicable SCAQMD LSTs for any criteria pollutant. Therefore, a less than significant impact would occur.

TABLE 3-16: CONSTRUCTION LOCALIZED SIGNIFICANCE SUMMARY (WITH MITIGATION)

On-Site Grading Emissions	Emissions (pounds per day)			
	NOx	CO	PM10	PM2.5
Maximum Daily Emissions	**79.23**	**82.15**	**15.15**	**8.63**
SCAQMD Localized Threshold	285	2,538	31	10
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

EXHIBIT 3-A: SENSITIVE RECEPTOR LOCATIONS



3.9 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 (54).

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, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 3-18.

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 "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 (54). 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 (55).

Traffic volumes generating the CO concentrations for the "hot spot" analysis, shown on Table 3-19. 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 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).[6] At buildout of the Project, the highest average daily trips on a segment of road would be 50,400 daily trips on Archibald Avenue south of State Route 60(SR 60) which is lower than the highest daily traffic volumes generated at the busiest intersection in the CO "hot spot" analysis (56).

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 Los Angeles hot spot study, or based on representative BAAQMD CO threshold considerations, as shown on Table 3-20. 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 3-18: 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

TABLE 3-19: 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

TABLE 3-20: 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)
Archibald Ave./ Riverside Dr.	1,666/1,590	1,329/1,825	776/1,212	1,027/1,020	4,799/5,646
Archibald Ave./ Merrill Ave.	2,166/1,641	1,664/1,886	830/1,668	331/282	4,999/5,477

6 Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

Archibald Ave./ Schleisman Rd.	1,516/1,211	1,313/1,834	1,115/2,154	1,080/543	5,024/5,742
Hammer Ave./ Limonite Ave.	1,174/924	861/1,331	1,631/2,019	1,603/2,088	5,269/6,363

Source: Colony Commerce Center East Specific Plan Traffic Impact Analysis (Urban Crossroads, Inc., 2017).

3.10 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.

The Final 2012 AQMP was adopted by the AQMD Governing Board on December 7, 2012 (22). The 2012 AQMP incorporates the latest scientific and technological information and planning assumptions, including the 2012 Regional Transportation Plan/Sustainable Communities Strategy and updated emission inventory methodologies for various source categories.

Similar to the 2007 AQMP, the 2012 AQMP was based on assumptions provided by both CARB and SCAG in the latest available EMFAC model for the most recent motor vehicle and demographics information, respectively. The air quality levels projected in the 2012 AQMP are based on several assumptions. For example, the 2012 AQMP has assumed that development associated with general plans, specific plans, residential projects, and wastewater facilities will be constructed in accordance with population growth projections identified by SCAG in its 2012 RTP. The 2012 AQMP also has assumed that such development projects will implement strategies to reduce emissions generated during the construction and operational phases of development.

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 (57). 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 (58). The Project's consistency with the AQMP will be determined using the 2016 AQMP is 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 (after mitigation). 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. However, the Project would exceed the applicable regional thresholds for emissions of NOx. Therefore, the Project would have the potential to conflict with the AQMP according to this 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 Ontario General Plan (Ontario 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 designated the Project site under "Industrial(I)" and "Business Park(BP)" (60). Industrial land uses allow for a variety of light industrial uses, including warehousing/distribution, assembly, light manufacturing, research and development, storage, repair facilities, and supporting retail and professional office uses. Business Park land uses allow for employee-intensive office uses including corporate offices, technology centers, research and development,

"clean" industry, light manufacturing, and supporting retail. The permitted floor area ratio (FAR) for industrial land uses are 0.55 FAR and 0.60 FAR for Business Park land uses.

The proposed Project includes the Colony Commerce East Specific Plan (CCCESP) that includes three Planning Areas (PA). Development of PA-1 and PA-2 would consist of up to 168,453-sf of manufacturing use, 505,358-sf of warehousing use, and 998,680-sf high-cube warehouse/distribution center use. PA1 and PA2 has a FAR of approximately 0.46

In addition, PA-3 is 9.6 acres and would be developed with up to 231,195 SF of office and industrial uses. PA3 has a FAR of approximately 0.55. Thus, the Project is permitted or conditionally permitted under the Ontario Plan's I and BP land use designations.

AQMP Consistency Conclusion

The Project would have the potential to cause NAAQS or CAAQS violations. The Project's proposed land use designation for the subject site is permitted/conditionally permitted in the adopted Ontario Plan.

3.11 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.

3.12 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).

3.13 CUMULATIVE IMPACTS

The Project area is designated as an extreme non-attainment area for ozone, and a non-attainment area for PM_{10}, $PM_{2.5}$, 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* (61). 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.

<u>Construction Impacts</u>

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 NOx. Per SCAQMD significance guidance, these impacts at the Project level are also considered cumulatively significant and would persist over the life of the Project. NO_x emissions are ozone precursors and would therefore contribute considerably to existing ozone non-attainment conditions within the Basin.

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4 FINDINGS & CONCLUSIONS

CONSTRUCTION-SOURCE EMISSIONS

REGIONAL IMPACTS

For regional emissions, Project construction-source emissions for PA1 and PA2 would exceed the numerical thresholds of significance established by the South Coast Air Quality Management District (SCAQMD) for emissions of volatile organic compounds (VOCs) and oxides of nitrogen (NOx). Mitigation Measures (MMs) AQ-1 and AQ-2 are recommended to reduce the severity of the impacts. After implementation of MMs AQ-1 and AQ-2, a less than significant impact would occur for Project-related construction-source emissions.

Project construction-source emissions for PA3 would not exceed the numerical threshold of significance established by the SCAQMD for any criteria pollutants. MMs AQ-1 and AQ-2 would further reduce emissions to less than significant levels. Therefore, Project construction-source emissions for PA3 would be less than significant with and without implementation of MMs AQ-1 and AQ-2.

It should be noted that construction for PA3 is anticipated to occur after the construction of PA1 and PA2.

LOCALIZED IMPACTS

For localized emissions, the Project would not exceed the SCAQMD's localized significance threshold for any criteria pollutant. Implementation of MM AQ-1 would further reduce localized emissions to less than significant levels. Therefore, a less than significant impact would occur with and without implementation of MM AQ-1.

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, Project operational-source emissions for PA1 and PA2 would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NO_x. Even with implementation of MMs AQ-3 and AQ-4, Project operational source emissions would still exceed the applicable regional SCAQMD thresholds for emissions of NOx. Moreover, approximately 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 Ontario) can

substantively or materially affect reductions in Project mobile-source emissions. Project operational-source NOx emissions exceedances for PA1 and PA2 are therefore considered significant and unavoidable.

Project operational-source emissions for PA3 would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NOx. Even with implementation of MMs AQ-3 and AQ-4, Project operational source emissions would still exceed the applicable regional SCAQMD thresholds for emissions of NOx. Neither the Project Applicant nor the Lead Agency (City of Ontario) can substantively or materially affect reductions in Project mobile-source emissions. Project operational-source NOx emissions exceedances for PA3 are therefore considered significant and unavoidable.

Project horizon year (2040) operational-source emissions (PA1, PA2, and PA3) would exceed the numerical thresholds of significance established by the SCAQMD for emissions of NOx. Even with implementation of MMs AQ-3 and AQ-4, Project operational source emissions would exceed the applicable regional SCAQMD thresholds for emissions of NOx. Neither the Project Applicant nor the Lead Agency (City of Ontario) can substantively or materially affect reductions in Project mobile-source emissions. Project buildout operational-source NOx emissions 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.

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.

5 REFERENCES

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6 CERTIFICATION

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Colony Commerce Center East Specific Plan 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.

Haseeb Qureshi
Senior Associate
URBAN CROSSROADS, INC.
260 E. Baker Street, Suite 200
Costa Mesa, CA 92626
(949) 336-5987
hqureshi@urbanxroads.com

EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May, 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June, 2006

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
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

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APPENDIX 3.1:

CALEEMOD EMISSIONS MODEL OUTPUTS

Colony Commerce Center Construction Unmitigated

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	4.03	175,330.00	0
Unrefrigerated Warehouse-No Rail	1,514.67	1000sqft	34.77	1,514,670.00	0
Parking Lot	45.11	Acre	45.11	1,964,991.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics - Construction Only

Land Use -

Construction Phase - Based on consulatation with the client and a 2019 opening year

Off-road Equipment - Based on consultation with the client

Off-road Equipment - Based on consultation with the client and 8 hour workday

Off-road Equipment - Based on consultation with the client

Off-road Equipment - Based on consultation with the client

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Rule 1113

Vehicle Trips - Construction only

Road Dust -

Consumer Products - Construction only

Area Coating - Construction only

Landscape Equipment - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	845000	836247
tblAreaCoating	Area_Nonresidential_Interior	2535000	2508740
tblAreaCoating	Area_Parking	117899	47976

Colony Commerce Center Construction Unmitigated - San Bernardino-South Coast County, Winter

tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	110.00	150.00
tblConstructionPhase	NumDays	1,550.00	300.00
tblConstructionPhase	NumDays	100.00	20.00
tblConstructionPhase	NumDays	155.00	45.00
tblConstructionPhase	NumDays	110.00	45.00
tblConstructionPhase	PhaseEndDate	7/24/2019	10/24/2019
tblConstructionPhase	PhaseEndDate	10/24/2018	10/24/2019
tblConstructionPhase	PhaseEndDate	6/28/2017	6/28/2018
tblConstructionPhase	PhaseEndDate	8/30/2017	8/30/2018
tblConstructionPhase	PhaseEndDate	12/26/2018	12/26/2019
tblConstructionPhase	PhaseStartDate	12/27/2018	3/29/2019
tblConstructionPhase	PhaseStartDate	8/31/2017	8/31/2018
tblConstructionPhase	PhaseStartDate	6/1/2017	6/1/2018
tblConstructionPhase	PhaseStartDate	6/29/2017	6/29/2018
tblConstructionPhase	PhaseStartDate	10/25/2018	10/25/2019
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tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.01	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	1.20	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	2.31	0.00

tblEnergyUse	T24E	0.39	0.00
tblEnergyUse	T24NG	15.43	0.00
tblEnergyUse	T24NG	2.02	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblOffRoadEquipment	HorsePower	402.00	189.00
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
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tblSolidWaste	SolidWasteGenerationRate	1,423.79	0.00
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tblVehicleEF	LDA	275.91	287.22
tblVehicleEF	LDA	63.35	65.27
tblVehicleEF	LDA	0.54	0.54
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
tblVehicleEF	LDA	2.3410e-003	2.3620e-003
tblVehicleEF	LDA	1.6120e-003	1.6250e-003
tblVehicleEF	LDA	2.1530e-003	2.1730e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.7640e-003	2.8790e-003
tblVehicleEF	LDA	6.6200e-004	6.8600e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02

tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.11	2.39
tblVehicleEF	LDT1	4.94	5.45
tblVehicleEF	LDT1	340.78	350.33
tblVehicleEF	LDT1	75.92	77.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	0.25
tblVehicleEF	LDT1	0.30	0.33
tblVehicleEF	LDT1	3.2070e-003	3.4520e-003
tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
tblVehicleEF	LDT1	2.9540e-003	3.1830e-003
tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.40	0.43
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.36	0.41
tblVehicleEF	LDT1	3.4370e-003	3.5370e-003
tblVehicleEF	LDT1	8.4700e-004	8.7100e-004
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.40	0.43
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.07	0.09

tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.40	0.45
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	2.52	2.85
tblVehicleEF	LDT1	4.07	4.49
tblVehicleEF	LDT1	371.05	381.30
tblVehicleEF	LDT1	75.92	77.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.27	0.30
tblVehicleEF	LDT1	3.2070e-003	3.4520e-003
tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
tblVehicleEF	LDT1	2.9540e-003	3.1830e-003
tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.45	0.48
tblVehicleEF	LDT1	0.50	0.54
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.30	0.34
tblVehicleEF	LDT1	3.7450e-003	3.8530e-003
tblVehicleEF	LDT1	8.3200e-004	8.5400e-004
tblVehicleEF	LDT1	0.45	0.48
tblVehicleEF	LDT1	0.50	0.54
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.08	0.10

tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.33	0.37
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.00	2.27
tblVehicleEF	LDT1	4.85	5.35
tblVehicleEF	LDT1	333.64	343.01
tblVehicleEF	LDT1	75.92	77.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.24
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	3.2070e-003	3.4520e-003
tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
tblVehicleEF	LDT1	2.9540e-003	3.1830e-003
tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.23	0.25
tblVehicleEF	LDT1	0.47	0.50
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	0.36	0.40
tblVehicleEF	LDT1	3.3640e-003	3.4620e-003
tblVehicleEF	LDT1	8.4600e-004	8.7000e-004
tblVehicleEF	LDT1	0.23	0.25
tblVehicleEF	LDT1	0.47	0.50
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.07	0.08

tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	0.39	0.44
tblVehicleEF	LDT2	8.5630e-003	9.7720e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.02	1.15
tblVehicleEF	LDT2	2.36	2.69
tblVehicleEF	LDT2	386.16	399.12
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.22	0.26
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	3.8710e-003	4.0030e-003
tblVehicleEF	LDT2	9.0800e-004	9.3700e-004
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	9.7130e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.24	1.40
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tblVehicleEF	LDT2	421.64	435.78
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	4.2290e-003	4.3730e-003
tblVehicleEF	LDT2	9.0100e-004	9.2900e-004
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	8.3210e-003	9.4960e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.96	1.09
tblVehicleEF	LDT2	2.32	2.64
tblVehicleEF	LDT2	377.78	390.45
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.22	0.26
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	3.7870e-003	3.9150e-003
tblVehicleEF	LDT2	9.0800e-004	9.3600e-004
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.36	1.48
tblVehicleEF	LHD1	3.09	3.27
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.53	2.64
tblVehicleEF	LHD1	1.07	1.09
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004
tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	3.9400e-003	4.0030e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8690e-003	1.8710e-003

tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.32	0.33
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2050e-003
tblVehicleEF	LHD1	3.7900e-004	3.8900e-004
tblVehicleEF	LHD1	3.9400e-003	4.0030e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8690e-003	1.8710e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.39	1.50
tblVehicleEF	LHD1	2.89	3.06
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.37	2.47
tblVehicleEF	LHD1	1.02	1.03
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004

tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	7.8390e-003	7.9950e-003
tblVehicleEF	LHD1	0.14	0.14
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.3490e-003	4.4070e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.30	0.32
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2060e-003
tblVehicleEF	LHD1	3.7600e-004	3.8500e-004
tblVehicleEF	LHD1	7.8390e-003	7.9950e-003
tblVehicleEF	LHD1	0.14	0.14
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.3490e-003	4.4070e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.36	1.47
tblVehicleEF	LHD1	3.03	3.21
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.48	2.60
tblVehicleEF	LHD1	1.05	1.07
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004
tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	4.4110e-003	4.5270e-003
tblVehicleEF	LHD1	0.13	0.14
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8450e-003	1.8500e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.37	0.37
tblVehicleEF	LHD1	0.32	0.33
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2050e-003

tblVehicleEF	LHD1	3.7800e-004	3.8700e-004
tblVehicleEF	LHD1	4.4110e-003	4.5270e-003
tblVehicleEF	LHD1	0.13	0.14
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8450e-003	1.8500e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.37	0.37
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.7020e-003	7.7100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.51	1.65
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49
tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.14	2.37
tblVehicleEF	LHD2	0.62	0.65
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	1.6180e-003	1.7430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.5500e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.15	0.17
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8700e-004	2.9400e-004
tblVehicleEF	LHD2	1.6180e-003	1.7430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.5500e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.8110e-003	7.8410e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.42	1.55
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49

tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.01	2.23
tblVehicleEF	LHD2	0.59	0.62
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	3.1480e-003	3.4040e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8200e-003	1.9350e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8500e-004	2.9200e-004
tblVehicleEF	LHD2	3.1480e-003	3.4040e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8200e-003	1.9350e-003

tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.7130e-003	7.7230e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.49	1.62
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49
tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.10	2.33
tblVehicleEF	LHD2	0.61	0.64
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	1.7370e-003	1.9010e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	8.0100e-004	8.4300e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.15	0.16
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8600e-004	2.9400e-004
tblVehicleEF	LHD2	1.7370e-003	1.9010e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0100e-004	8.4300e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.16	0.18
tblVehicleEF	MCY	0.41	0.41
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	22.23	22.94
tblVehicleEF	MCY	9.88	9.86
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	1.44	1.44
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.31	2.37
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.21	2.22
tblVehicleEF	MCY	2.0840e-003	2.0940e-003
tblVehicleEF	MCY	7.0500e-004	7.1000e-004
tblVehicleEF	MCY	1.44	1.44
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.80	2.85
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.40	2.42
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	22.35	23.05
tblVehicleEF	MCY	9.08	9.10
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.00	1.01
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	3.14	3.13
tblVehicleEF	MCY	1.28	1.28
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	2.24	2.29
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	1.89	1.91
tblVehicleEF	MCY	2.0830e-003	2.0930e-003
tblVehicleEF	MCY	6.8200e-004	6.8700e-004
tblVehicleEF	MCY	3.14	3.13
tblVehicleEF	MCY	1.28	1.28
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	2.72	2.76
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.06	2.07
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.18	21.83
tblVehicleEF	MCY	9.49	9.47
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.14	1.14
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.72	0.72
tblVehicleEF	MCY	2.27	2.32
tblVehicleEF	MCY	0.58	0.59
tblVehicleEF	MCY	2.13	2.14
tblVehicleEF	MCY	2.0660e-003	2.0750e-003
tblVehicleEF	MCY	6.9600e-004	7.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.72	0.72
tblVehicleEF	MCY	2.75	2.80
tblVehicleEF	MCY	0.58	0.59
tblVehicleEF	MCY	2.31	2.33
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.04
tblVehicleEF	MDV	4.25	4.59
tblVehicleEF	MDV	522.82	536.32
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.24	0.27
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.35	0.38
tblVehicleEF	MDV	5.2470e-003	5.3850e-003
tblVehicleEF	MDV	1.2310e-003	1.2570e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.23	2.44
tblVehicleEF	MDV	3.55	3.83
tblVehicleEF	MDV	569.24	583.96
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.40	0.44
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.25	0.26
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.29	0.32
tblVehicleEF	MDV	5.7160e-003	5.8670e-003
tblVehicleEF	MDV	1.2180e-003	1.2430e-003
tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.25	0.26
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.77	1.93
tblVehicleEF	MDV	4.18	4.51
tblVehicleEF	MDV	511.98	525.18
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.24	0.24
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.34	0.38
tblVehicleEF	MDV	5.1370e-003	5.2720e-003
tblVehicleEF	MDV	1.2300e-003	1.2560e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.24	0.24
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	5.12	5.88
tblVehicleEF	MH	8.11	8.68
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.82	1.92
tblVehicleEF	MH	1.02	1.06
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003

tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	1.74	1.83
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.59	0.61
tblVehicleEF	MH	0.16	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.50	0.55
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.8300e-004	8.1100e-004
tblVehicleEF	MH	1.74	1.83
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.59	0.61
tblVehicleEF	MH	0.22	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.55	0.60
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	5.31	6.08
tblVehicleEF	MH	7.47	8.03
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.66	1.74
tblVehicleEF	MH	0.97	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04

tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	3.50	3.68
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.44	1.51
tblVehicleEF	MH	0.17	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7200e-004	8.0000e-004
tblVehicleEF	MH	3.50	3.68
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.44	1.51
tblVehicleEF	MH	0.23	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	5.07	5.80
tblVehicleEF	MH	7.97	8.52
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.78	1.87
tblVehicleEF	MH	1.01	1.04

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	2.13	2.25
tblVehicleEF	MH	0.14	0.14
tblVehicleEF	MH	0.62	0.64
tblVehicleEF	MH	0.16	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.50	0.54
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.8000e-004	8.0800e-004
tblVehicleEF	MH	2.13	2.25
tblVehicleEF	MH	0.14	0.14
tblVehicleEF	MH	0.62	0.64
tblVehicleEF	MH	0.22	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.54	0.59
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.1590e-003	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.46	0.49
tblVehicleEF	MHD	0.65	0.81
tblVehicleEF	MHD	7.39	8.33
tblVehicleEF	MHD	157.54	155.75

tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.21	1.31
tblVehicleEF	MHD	2.37	2.82
tblVehicleEF	MHD	11.70	11.56
tblVehicleEF	MHD	4.7630e-003	5.6590e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003
tblVehicleEF	MHD	4.5570e-003	5.4140e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	1.7760e-003	2.0290e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	8.5500e-004	9.6300e-004
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.45	0.52
tblVehicleEF	MHD	1.5140e-003	1.4970e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9000e-004	7.3200e-004
tblVehicleEF	MHD	1.7760e-003	2.0290e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	8.5500e-004	9.6300e-004
tblVehicleEF	MHD	0.14	0.17

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.49	0.56
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.2950e-003	0.01
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.34	0.36
tblVehicleEF	MHD	0.66	0.82
tblVehicleEF	MHD	6.91	7.82
tblVehicleEF	MHD	166.87	164.97
tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.25	1.36
tblVehicleEF	MHD	2.23	2.65
tblVehicleEF	MHD	11.65	11.50
tblVehicleEF	MHD	4.0150e-003	4.7700e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003
tblVehicleEF	MHD	3.8410e-003	4.5640e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	3.5610e-003	4.0950e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	2.0490e-003	2.3400e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.03

tblVehicleEF	MHD	0.43	0.49
tblVehicleEF	MHD	1.6020e-003	1.5840e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8200e-004	7.2300e-004
tblVehicleEF	MHD	3.5610e-003	4.0950e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	2.0490e-003	2.3400e-003
tblVehicleEF	MHD	0.14	0.17
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.47	0.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.1710e-003	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.64	0.68
tblVehicleEF	MHD	0.65	0.81
tblVehicleEF	MHD	7.25	8.17
tblVehicleEF	MHD	144.65	143.00
tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.16	1.26
tblVehicleEF	MHD	2.33	2.77
tblVehicleEF	MHD	11.68	11.54
tblVehicleEF	MHD	5.7950e-003	6.8860e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003

tblVehicleEF	MHD	5.5440e-003	6.5880e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	2.0110e-003	2.3270e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	8.5200e-004	9.6300e-004
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.44	0.51
tblVehicleEF	MHD	1.3930e-003	1.3770e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8800e-004	7.2900e-004
tblVehicleEF	MHD	2.0110e-003	2.3270e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	8.5200e-004	9.6300e-004
tblVehicleEF	MHD	0.14	0.17
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.49	0.56
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.27	0.28
tblVehicleEF	OBUS	0.98	1.16
tblVehicleEF	OBUS	7.52	8.02
tblVehicleEF	OBUS	68.93	68.05

tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.39	0.40
tblVehicleEF	OBUS	1.49	1.62
tblVehicleEF	OBUS	2.08	2.13
tblVehicleEF	OBUS	2.1100e-004	2.3500e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004
tblVehicleEF	OBUS	2.0200e-004	2.2500e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	2.3600e-003	2.4380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.8000e-004	1.0000e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.46	0.50
tblVehicleEF	OBUS	6.7000e-004	6.6200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.6700e-004
tblVehicleEF	OBUS	2.3600e-003	2.4380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	9.8000e-004	1.0000e-003
tblVehicleEF	OBUS	0.08	0.09

tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.51	0.54
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.27	0.27
tblVehicleEF	OBUS	1.00	1.19
tblVehicleEF	OBUS	6.90	7.35
tblVehicleEF	OBUS	71.97	71.04
tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.40	0.41
tblVehicleEF	OBUS	1.38	1.50
tblVehicleEF	OBUS	2.02	2.07
tblVehicleEF	OBUS	1.7800e-004	1.9800e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004
tblVehicleEF	OBUS	1.7000e-004	1.9000e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	4.6170e-003	4.7840e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.2950e-003	2.3650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.44	0.47
tblVehicleEF	OBUS	6.9900e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4200e-004	8.5600e-004
tblVehicleEF	OBUS	4.6170e-003	4.7840e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	2.2950e-003	2.3650e-003
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.51
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.98	1.16
tblVehicleEF	OBUS	7.46	7.96
tblVehicleEF	OBUS	64.72	63.93
tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.37	0.38
tblVehicleEF	OBUS	1.46	1.59
tblVehicleEF	OBUS	2.06	2.11
tblVehicleEF	OBUS	2.5700e-004	2.8600e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004

tblVehicleEF	OBUS	2.4600e-004	2.7400e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	2.5780e-003	2.6910e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.9800e-004	1.0220e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.46	0.49
tblVehicleEF	OBUS	6.3000e-004	6.2300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5200e-004	8.6600e-004
tblVehicleEF	OBUS	2.5780e-003	2.6910e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	9.9800e-004	1.0220e-003
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.51	0.54
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.08	0.09
tblVehicleEF	SBUS	5.44	5.33
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	5.79	6.01
tblVehicleEF	SBUS	1,293.73	1,303.92

tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	13.93	14.65
tblVehicleEF	SBUS	5.98	6.41
tblVehicleEF	SBUS	15.64	15.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	3.7220e-003	4.2060e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.65	0.64
tblVehicleEF	SBUS	1.4310e-003	1.5370e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.30	0.31
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4100e-004	4.3500e-004
tblVehicleEF	SBUS	3.7220e-003	4.2060e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.93	0.91

tblVehicleEF	SBUS	1.4310e-003	1.5370e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.33	0.34
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	5.26	5.15
tblVehicleEF	SBUS	0.85	0.96
tblVehicleEF	SBUS	3.97	4.12
tblVehicleEF	SBUS	1,360.62	1,371.70
tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	14.38	15.11
tblVehicleEF	SBUS	5.60	6.01
tblVehicleEF	SBUS	15.61	15.81
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	7.1900e-003	8.1360e-003
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	0.65	0.64
tblVehicleEF	SBUS	3.2890e-003	3.5810e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.24	0.26
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.1000e-004	4.0300e-004
tblVehicleEF	SBUS	7.1900e-003	8.1360e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.93	0.91
tblVehicleEF	SBUS	3.2890e-003	3.5810e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.27	0.28
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.08	0.09
tblVehicleEF	SBUS	5.68	5.59
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	5.85	6.07
tblVehicleEF	SBUS	1,201.37	1,210.32
tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	13.31	14.00
tblVehicleEF	SBUS	5.89	6.31

tblVehicleEF	SBUS	15.64	15.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	4.1790e-003	4.8840e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.66	0.65
tblVehicleEF	SBUS	1.4520e-003	1.5860e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.31	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4200e-004	4.3600e-004
tblVehicleEF	SBUS	4.1790e-003	4.8840e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.94	0.92
tblVehicleEF	SBUS	1.4520e-003	1.5860e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.33	0.35
tblVehicleEF	UBUS	2.18	2.30

tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	10.98	11.59
tblVehicleEF	UBUS	16.03	16.73
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.84	8.53
tblVehicleEF	UBUS	14.21	14.43
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	9.0440e-003	9.3450e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	4.3140e-003	4.4380e-003
tblVehicleEF	UBUS	0.78	0.84
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.26	1.29
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.6090e-003	1.6080e-003
tblVehicleEF	UBUS	9.0440e-003	9.3450e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	4.3140e-003	4.4380e-003
tblVehicleEF	UBUS	3.05	3.24
tblVehicleEF	UBUS	0.02	0.02

tblVehicleEF	UBUS	1.38	1.42
tblVehicleEF	UBUS	2.18	2.31
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	11.10	11.72
tblVehicleEF	UBUS	13.14	13.72
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.29	7.93
tblVehicleEF	UBUS	14.09	14.30
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.16	0.17
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.80	0.86
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.12	1.15
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.5590e-003	1.5560e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.16	0.17
tblVehicleEF	UBUS	0.01	0.01

tblVehicleEF	UBUS	3.07	3.26
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.23	1.26
tblVehicleEF	UBUS	2.18	2.30
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	10.99	11.59
tblVehicleEF	UBUS	15.49	16.18
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.69	8.37
tblVehicleEF	UBUS	14.19	14.41
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	4.5490e-003	4.6930e-003
tblVehicleEF	UBUS	0.79	0.84
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.24	1.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.6000e-003	1.5980e-003
tblVehicleEF	UBUS	0.01	0.01

tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	4.5490e-003	4.6930e-003
tblVehicleEF	UBUS	3.05	3.24
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.39
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	40,545,062.50	0.00
tblWater	IndoorWaterUseRate	350,267,437.50	0.00

2.0 Emissions Summary

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	16.8804	166.5597	116.0586	0.3700	31.4656	6.7813	38.2470	14.1985	6.2398	20.4383	0.0000	37,611.2495	37,611.2495	4.9865	0.0000	37,683.2897
2019	86.9895	117.6823	125.2368	0.4066	24.4258	3.0509	27.4767	6.5651	2.9163	9.4814	0.0000	41,169.4023	41,169.4023	2.9597	0.0000	41,243.3940
Maximum	**86.9895**	**166.5597**	**125.2368**	**0.4066**	**31.4656**	**6.7813**	**38.2470**	**14.1985**	**6.2398**	**20.4383**	**0.0000**	**41,169.4023**	**41,169.4023**	**4.9865**	**0.0000**	**41,243.3940**

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	16.8804	166.5597	116.0586	0.3700	20.9943	6.7813	23.9072	5.7001	6.2398	11.9399	0.0000	37,611.2495	37,611.2495	4.9865	0.0000	37,683.2897
2019	86.9895	117.6823	125.2368	0.4066	24.4258	3.0509	27.4767	6.5651	2.9163	9.4814	0.0000	41,169.4023	41,169.4023	2.9597	0.0000	41,243.3940
Maximum	**86.9895**	**166.5597**	**125.2368**	**0.4066**	**24.4258**	**6.7813**	**27.4767**	**6.5651**	**6.2398**	**11.9399**	**0.0000**	**41,169.4023**	**41,169.4023**	**4.9865**	**0.0000**	**41,243.3940**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**18.74**	**0.00**	**21.82**	**40.93**	**0.00**	**28.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
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
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**	**0.0000**	**0.4055**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
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
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**	**0.0000**	**0.4055**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2018	6/28/2018	5	20	
2	Grading	Grading	6/29/2018	8/30/2018	5	45	
3	Building Construction	Building Construction	8/31/2018	10/24/2019	5	300	
4	Paving	Paving	10/25/2019	12/26/2019	5	45	
5	Architectural Coating	Architectural Coating	3/29/2019	10/24/2019	5	150	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 270

Acres of Paving: 45.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,535,000; Non-Residential Outdoor: 845,000; Striped Parking Area: 117,899 (Architectural Coating – sqft)

OffRoad Equipment

Colony Commerce Center 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	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	4	8.00	187	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.50
Grading	Rubber Tired Dozers	4	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	3	8.00	78	0.48
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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	455.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	18	45.00	0.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	1,535.00	599.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	307.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	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					4.9218	0.0000	4.9218	0.7452	0.0000	0.7452			0.0000			0.0000
Off-Road	4.1081	39.7648	23.4286	0.0407		2.1205	2.1205		1.9988	1.9988		4,016.7116	4,016.7116	0.9658		4,040.8557
Total	**4.1081**	**39.7648**	**23.4286**	**0.0407**	**4.9218**	**2.1205**	**7.0423**	**0.7452**	**1.9988**	**2.7440**		**4,016.7116**	**4,016.7116**	**0.9658**		**4,040.8557**

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	0.1694	6.4514	1.0468	0.0178	0.3982	0.0228	0.4209	0.1092	0.0218	0.1309		1,887.5272	1,887.5272	0.1150		1,890.4028
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	0.0976	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
Total	**0.2669**	**6.5223**	**1.7427**	**0.0194**	**0.5658**	**0.0239**	**0.5898**	**0.1536**	**0.0228**	**0.1765**		**2,050.0117**	**2,050.0117**	**0.1209**		**2,053.0340**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9195	0.0000	1.9195	0.2906	0.0000	0.2906			0.0000			0.0000
Off-Road	4.1081	39.7648	23.4286	0.0407		2.1205	2.1205		1.9988	1.9988	0.0000	4,016.7116	4,016.7116	0.9658		4,040.8557
Total	**4.1081**	**39.7648**	**23.4286**	**0.0407**	**1.9195**	**2.1205**	**4.0400**	**0.2906**	**1.9988**	**2.2894**	**0.0000**	**4,016.7116**	**4,016.7116**	**0.9658**		**4,040.8557**

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	0.1694	6.4514	1.0468	0.0178	0.3982	0.0228	0.4209	0.1092	0.0218	0.1309		1,887.5272	1,887.5272	0.1150		1,890.4028
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	0.0976	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
Total	**0.2669**	**6.5223**	**1.7427**	**0.0194**	**0.5658**	**0.0239**	**0.5898**	**0.1536**	**0.0228**	**0.1765**		**2,050.0117**	**2,050.0117**	**0.1209**		**2,053.0340**

3.3 Grading - 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					30.4765	0.0000	30.4765	13.9318	0.0000	13.9318			0.0000			0.0000
Off-Road	13.5770	158.4698	76.6807	0.1541		6.7500	6.7500		6.2100	6.2100		15,509.8304	15,509.8304	4.8284		15,630.5409
Total	**13.5770**	**158.4698**	**76.6807**	**0.1541**	**30.4765**	**6.7500**	**37.2265**	**13.9318**	**6.2100**	**20.1418**		**15,509.8304**	**15,509.8304**	**4.8284**		**15,630.5409**

3.3 Grading - 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	0.2068	7.8772	1.2781	0.0217	0.4862	0.0278	0.5140	0.1333	0.0266	0.1599		2,304.6731	2,304.6731	0.1404		2,308.1842
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	0.2927	0.2127	2.0878	4.9000e-003	0.5030	3.4900e-003	0.5065	0.1334	3.2200e-003	0.1366		487.4535	487.4535	0.0176		487.8936
Total	**0.4995**	**8.0899**	**3.3659**	**0.0266**	**0.9892**	**0.0313**	**1.0204**	**0.2667**	**0.0298**	**0.2965**		**2,792.1265**	**2,792.1265**	**0.1581**		**2,796.0778**

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					11.8858	0.0000	11.8858	5.4334	0.0000	5.4334			0.0000			0.0000
Off-Road	13.5770	158.4698	76.6807	0.1541		6.7500	6.7500		6.2100	6.2100	0.0000	15,509.8304	15,509.8304	4.8284		15,630.5409
Total	**13.5770**	**158.4698**	**76.6807**	**0.1541**	**11.8858**	**6.7500**	**18.6359**	**5.4334**	**6.2100**	**11.6434**	**0.0000**	**15,509.8304**	**15,509.8304**	**4.8284**		**15,630.5409**

3.3 Grading - 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	0.2068	7.8772	1.2781	0.0217	0.4862	0.0278	0.5140	0.1333	0.0266	0.1599		2,304.6731	2,304.6731	0.1404		2,308.1842
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	0.2927	0.2127	2.0878	4.9000e-003	0.5030	3.4900e-003	0.5065	0.1334	3.2200e-003	0.1366		487.4535	487.4535	0.0176		487.8936
Total	**0.4995**	**8.0899**	**3.3659**	**0.0266**	**0.9892**	**0.0313**	**1.0204**	**0.2667**	**0.0298**	**0.2965**		**2,792.1265**	**2,792.1265**	**0.1581**		**2,796.0778**

3.4 Building Construction - 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	4.3685	37.8449	26.9000	0.0437		2.2774	2.2774		2.1553	2.1553		4,221.9111	4,221.9111	0.9667		4,246.0792
Total	**4.3685**	**37.8449**	**26.9000**	**0.0437**		**2.2774**	**2.2774**		**2.1553**	**2.1553**		**4,221.9111**	**4,221.9111**	**0.9667**		**4,246.0792**

3.4 Building Construction - 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	2.5272	73.1032	17.9422	0.1591	3.8366	0.5163	4.3530	1.1047	0.4940	1.5987		16,761.7592	16,761.7592	1.3143		16,794.6167
Worker	9.9847	7.2550	71.2164	0.1671	17.1577	0.1192	17.2769	4.5503	0.1098	4.6601		16,627.5792	16,627.5792	0.6006		16,642.5938
Total	**12.5119**	**80.3582**	**89.1586**	**0.3263**	**20.9943**	**0.6355**	**21.6298**	**5.6550**	**0.6038**	**6.2588**		**33,389.3384**	**33,389.3384**	**1.9149**		**33,437.2105**

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	4.3685	37.8449	26.9000	0.0437		2.2774	2.2774		2.1553	2.1553	0.0000	4,221.9111	4,221.9111	0.9667		4,246.0792
Total	**4.3685**	**37.8449**	**26.9000**	**0.0437**		**2.2774**	**2.2774**		**2.1553**	**2.1553**	**0.0000**	**4,221.9111**	**4,221.9111**	**0.9667**		**4,246.0792**

3.4 Building Construction - 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	2.5272	73.1032	17.9422	0.1591	3.8366	0.5163	4.3530	1.1047	0.4940	1.5987		16,761.7592	16,761.7592	1.3143		16,794.6167
Worker	9.9847	7.2550	71.2164	0.1671	17.1577	0.1192	17.2769	4.5503	0.1098	4.6601		16,627.5792	16,627.5792	0.6006		16,642.5938
Total	**12.5119**	**80.3582**	**89.1586**	**0.3263**	**20.9943**	**0.6355**	**21.6298**	**5.6550**	**0.6038**	**6.2588**		**33,389.3384**	**33,389.3384**	**1.9149**		**33,437.2105**

3.4 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	3.8447	34.1154	26.1372	0.0437		1.9604	1.9604		1.8556	1.8556		4,180.0326	4,180.0326	0.9453		4,203.6648
Total	**3.8447**	**34.1154**	**26.1372**	**0.0437**		**1.9604**	**1.9604**		**1.8556**	**1.8556**		**4,180.0326**	**4,180.0326**	**0.9453**		**4,203.6648**

3.4 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	2.2559	68.5770	16.1274	0.1574	3.8366	0.4371	4.2736	1.1047	0.4181	1.5228		16,589.2476	16,589.2476	1.2870		16,621.4218
Worker	9.0865	6.3737	63.0058	0.1614	17.1577	0.1154	17.2731	4.5503	0.1063	4.6566		16,061.9416	16,061.9416	0.5269		16,075.1150
Total	**11.3424**	**74.9507**	**79.1332**	**0.3188**	**20.9942**	**0.5525**	**21.5467**	**5.6550**	**0.5244**	**6.1794**		**32,651.1893**	**32,651.1893**	**1.8139**		**32,696.5368**

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	3.8447	34.1154	26.1372	0.0437		1.9604	1.9604		1.8556	1.8556	0.0000	4,180.0326	4,180.0326	0.9453		4,203.6648
Total	**3.8447**	**34.1154**	**26.1372**	**0.0437**		**1.9604**	**1.9604**		**1.8556**	**1.8556**	**0.0000**	**4,180.0326**	**4,180.0326**	**0.9453**		**4,203.6648**

3.4 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	2.2559	68.5770	16.1274	0.1574	3.8366	0.4371	4.2736	1.1047	0.4181	1.5228		16,589.2476	16,589.2476	1.2870		16,621.4218
Worker	9.0865	6.3737	63.0058	0.1614	17.1577	0.1154	17.2731	4.5503	0.1063	4.6566		16,061.9416	16,061.9416	0.5269		16,075.1150
Total	**11.3424**	**74.9507**	**79.1332**	**0.3188**	**20.9942**	**0.5525**	**21.5467**	**5.6550**	**0.5244**	**6.1794**		**32,651.1893**	**32,651.1893**	**1.8139**		**32,696.5368**

3.5 Paving - 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	2.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0808**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 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	0.0000	0.0000	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	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858
Total	**0.0888**	**0.0623**	**0.6157**	**1.5800e-003**	**0.1677**	**1.1300e-003**	**0.1688**	**0.0445**	**1.0400e-003**	**0.0455**		**156.9571**	**156.9571**	**5.1500e-003**		**157.0858**

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	2.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0808**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 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	0.0000	0.0000	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	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858
Total	**0.0888**	**0.0623**	**0.6157**	**1.5800e-003**	**0.1677**	**1.1300e-003**	**0.1688**	**0.0445**	**1.0400e-003**	**0.0455**		**156.9571**	**156.9571**	**5.1500e-003**		**157.0858**

3.6 Architectural Coating - 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					
Archit. Coating	68.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0658	7.3415	7.3653	0.0119		0.5151	0.5151		0.5151	0.5151		1,125.7922	1,125.7922	0.0951		1,128.1694
Total	**69.9851**	**7.3415**	**7.3653**	**0.0119**		**0.5151**	**0.5151**		**0.5151**	**0.5151**		**1,125.7922**	**1,125.7922**	**0.0951**		**1,128.1694**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.8173	1.2747	12.6012	0.0323	3.4315	0.0231	3.4546	0.9101	0.0213	0.9313		3,212.3883	3,212.3883	0.1054		3,215.0230
Total	**1.8173**	**1.2747**	**12.6012**	**0.0323**	**3.4315**	**0.0231**	**3.4546**	**0.9101**	**0.0213**	**0.9313**		**3,212.3883**	**3,212.3883**	**0.1054**		**3,215.0230**

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	68.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0658	7.3415	7.3653	0.0119		0.5151	0.5151		0.5151	0.5151	0.0000	1,125.7922	1,125.7922	0.0951		1,128.1694
Total	**69.9851**	**7.3415**	**7.3653**	**0.0119**		**0.5151**	**0.5151**		**0.5151**	**0.5151**	**0.0000**	**1,125.7922**	**1,125.7922**	**0.0951**		**1,128.1694**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.8173	1.2747	12.6012	0.0323	3.4315	0.0231	3.4546	0.9101	0.0213	0.9313		3,212.3883	3,212.3883	0.1054		3,215.0230
Total	**1.8173**	**1.2747**	**12.6012**	**0.0323**	**3.4315**	**0.0231**	**3.4546**	**0.9101**	**0.0213**	**0.9313**		**3,212.3883**	**3,212.3883**	**0.1054**		**3,215.0230**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Unrefrigerated Warehouse-No Rail	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Parking Lot	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163

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

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					
Manufacturing	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
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Manufacturing	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
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Unmitigated	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**		**0.4055**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**		**0.4055**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Center Construction Mitigated

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	4.03	175,330.00	0
Unrefrigerated Warehouse-No Rail	1,514.67	1000sqft	34.77	1,514,670.00	0
Parking Lot	45.11	Acre	45.11	1,964,991.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics - Construction Only

Land Use -

Construction Phase - Based on consulatation with the client and a 2019 opening year

Off-road Equipment - Based on consultation with the client

Off-road Equipment - Based on consultation with the client and 8 hour workday

Off-road Equipment - Based on consultation with the client

Off-road Equipment - Based on consultation with the client

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Rule 1113

Vehicle Trips - Construction only

Road Dust -

Consumer Products - Construction only

Area Coating - Construction only

Landscape Equipment - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation - All Off-Road Equipment >150 HP will be Tier 3 or better

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	845000	836247
tblAreaCoating	Area_Nonresidential_Interior	2535000	2508740
tblAreaCoating	Area_Parking	117899	47976

tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	150.00
tblConstructionPhase	NumDays	1,550.00	300.00
tblConstructionPhase	NumDays	100.00	20.00
tblConstructionPhase	NumDays	155.00	45.00
tblConstructionPhase	NumDays	110.00	45.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.01	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	1.20	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	2.31	0.00

tblEnergyUse	T24E	0.39	0.00
tblEnergyUse	T24NG	15.43	0.00
tblEnergyUse	T24NG	2.02	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblOffRoadEquipment	HorsePower	402.00	189.00
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblSolidWaste	SolidWasteGenerationRate	217.41	0.00
tblSolidWaste	SolidWasteGenerationRate	1,423.79	0.00
tblVehicleEF	HHD	1.30	1.30
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.15	0.17
tblVehicleEF	HHD	3.95	4.16
tblVehicleEF	HHD	0.61	0.63
tblVehicleEF	HHD	2.33	2.59
tblVehicleEF	HHD	7,067.05	7,094.85

tblVehicleEF	HHD	1,525.94	1,547.41
tblVehicleEF	HHD	6.58	7.14
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	31.41	33.05
tblVehicleEF	HHD	3.55	3.88
tblVehicleEF	HHD	20.16	20.14
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0200e-004	1.3500e-004
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	9.5000e-005	1.2600e-004
tblVehicleEF	HHD	1.2700e-004	1.5000e-004
tblVehicleEF	HHD	5.2440e-003	6.3930e-003
tblVehicleEF	HHD	1.02	1.08
tblVehicleEF	HHD	7.6000e-005	8.8000e-005
tblVehicleEF	HHD	0.10	0.10
tblVehicleEF	HHD	3.5600e-004	4.2700e-004
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0500e-004	1.1500e-004
tblVehicleEF	HHD	1.2700e-004	1.5000e-004
tblVehicleEF	HHD	5.2440e-003	6.3930e-003

tblVehicleEF	HHD	1.17	1.24
tblVehicleEF	HHD	7.6000e-005	8.8000e-005
tblVehicleEF	HHD	0.14	0.15
tblVehicleEF	HHD	3.5600e-004	4.2700e-004
tblVehicleEF	HHD	0.10	0.11
tblVehicleEF	HHD	1.23	1.22
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.14	0.16
tblVehicleEF	HHD	2.88	3.04
tblVehicleEF	HHD	0.61	0.63
tblVehicleEF	HHD	2.20	2.46
tblVehicleEF	HHD	7,480.60	7,508.43
tblVehicleEF	HHD	1,525.94	1,547.41
tblVehicleEF	HHD	6.58	7.14
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	32.40	34.09
tblVehicleEF	HHD	3.34	3.66
tblVehicleEF	HHD	20.15	20.13
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0200e-004	1.3500e-004
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	9.5000e-005	1.2600e-004

tblVehicleEF	HHD	2.5700e-004	3.0800e-004
tblVehicleEF	HHD	6.1140e-003	7.5490e-003
tblVehicleEF	HHD	0.96	1.02
tblVehicleEF	HHD	1.8200e-004	2.1700e-004
tblVehicleEF	HHD	0.10	0.10
tblVehicleEF	HHD	3.6800e-004	4.4200e-004
tblVehicleEF	HHD	0.08	0.10
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0300e-004	1.1300e-004
tblVehicleEF	HHD	2.5700e-004	3.0800e-004
tblVehicleEF	HHD	6.1140e-003	7.5490e-003
tblVehicleEF	HHD	1.11	1.17
tblVehicleEF	HHD	1.8200e-004	2.1700e-004
tblVehicleEF	HHD	0.14	0.15
tblVehicleEF	HHD	3.6800e-004	4.4200e-004
tblVehicleEF	HHD	0.09	0.11
tblVehicleEF	HHD	1.40	1.40
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.15	0.16
tblVehicleEF	HHD	5.42	5.71
tblVehicleEF	HHD	0.61	0.63
tblVehicleEF	HHD	2.28	2.53
tblVehicleEF	HHD	6,495.97	6,523.71
tblVehicleEF	HHD	1,525.94	1,547.41
tblVehicleEF	HHD	6.58	7.14
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	30.04	31.61
tblVehicleEF	HHD	3.50	3.82
tblVehicleEF	HHD	20.16	20.13
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0200e-004	1.3500e-004
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	9.5000e-005	1.2600e-004
tblVehicleEF	HHD	1.3400e-004	1.6100e-004
tblVehicleEF	HHD	6.2040e-003	7.7760e-003
tblVehicleEF	HHD	1.10	1.16
tblVehicleEF	HHD	7.5000e-005	8.7000e-005
tblVehicleEF	HHD	0.10	0.10
tblVehicleEF	HHD	3.7900e-004	4.5200e-004
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0400e-004	1.1400e-004
tblVehicleEF	HHD	1.3400e-004	1.6100e-004
tblVehicleEF	HHD	6.2040e-003	7.7760e-003
tblVehicleEF	HHD	1.26	1.33
tblVehicleEF	HHD	7.5000e-005	8.7000e-005
tblVehicleEF	HHD	0.14	0.15

tblVehicleEF	HHD	3.7900e-004	4.5200e-004
tblVehicleEF	HHD	0.09	0.11
tblVehicleEF	LDA	5.8010e-003	6.6340e-003
tblVehicleEF	LDA	8.7310e-003	0.01
tblVehicleEF	LDA	0.72	0.81
tblVehicleEF	LDA	1.67	1.91
tblVehicleEF	LDA	282.20	293.78
tblVehicleEF	LDA	63.35	65.27
tblVehicleEF	LDA	0.54	0.54
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
tblVehicleEF	LDA	2.3410e-003	2.3620e-003
tblVehicleEF	LDA	1.6120e-003	1.6250e-003
tblVehicleEF	LDA	2.1530e-003	2.1730e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.8280e-003	2.9450e-003
tblVehicleEF	LDA	6.6200e-004	6.8600e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.03

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	6.6200e-003	7.5570e-003
tblVehicleEF	LDA	7.2800e-003	8.6280e-003
tblVehicleEF	LDA	0.88	0.99
tblVehicleEF	LDA	1.38	1.58
tblVehicleEF	LDA	308.85	321.54
tblVehicleEF	LDA	63.35	65.27
tblVehicleEF	LDA	0.54	0.54
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
tblVehicleEF	LDA	2.3410e-003	2.3620e-003
tblVehicleEF	LDA	1.6120e-003	1.6250e-003
tblVehicleEF	LDA	2.1530e-003	2.1730e-003
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	3.0960e-003	3.2250e-003
tblVehicleEF	LDA	6.5700e-004	6.8000e-004
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.02	0.03

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	5.6310e-003	6.4390e-003
tblVehicleEF	LDA	8.6650e-003	0.01
tblVehicleEF	LDA	0.68	0.76
tblVehicleEF	LDA	1.65	1.87
tblVehicleEF	LDA	275.91	287.22
tblVehicleEF	LDA	63.35	65.27
tblVehicleEF	LDA	0.54	0.54
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
tblVehicleEF	LDA	2.3410e-003	2.3620e-003
tblVehicleEF	LDA	1.6120e-003	1.6250e-003
tblVehicleEF	LDA	2.1530e-003	2.1730e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.7640e-003	2.8790e-003
tblVehicleEF	LDA	6.6200e-004	6.8600e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02

tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.11	2.39
tblVehicleEF	LDT1	4.94	5.45
tblVehicleEF	LDT1	340.78	350.33
tblVehicleEF	LDT1	75.92	77.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	0.25
tblVehicleEF	LDT1	0.30	0.33
tblVehicleEF	LDT1	3.2070e-003	3.4520e-003
tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
tblVehicleEF	LDT1	2.9540e-003	3.1830e-003
tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.40	0.43
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.36	0.41
tblVehicleEF	LDT1	3.4370e-003	3.5370e-003
tblVehicleEF	LDT1	8.4700e-004	8.7100e-004
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.40	0.43
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.07	0.09

tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.40	0.45
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	2.52	2.85
tblVehicleEF	LDT1	4.07	4.49
tblVehicleEF	LDT1	371.05	381.30
tblVehicleEF	LDT1	75.92	77.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.27	0.30
tblVehicleEF	LDT1	3.2070e-003	3.4520e-003
tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
tblVehicleEF	LDT1	2.9540e-003	3.1830e-003
tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.45	0.48
tblVehicleEF	LDT1	0.50	0.54
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.30	0.34
tblVehicleEF	LDT1	3.7450e-003	3.8530e-003
tblVehicleEF	LDT1	8.3200e-004	8.5400e-004
tblVehicleEF	LDT1	0.45	0.48
tblVehicleEF	LDT1	0.50	0.54
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.08	0.10

tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.33	0.37
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.00	2.27
tblVehicleEF	LDT1	4.85	5.35
tblVehicleEF	LDT1	333.64	343.01
tblVehicleEF	LDT1	75.92	77.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.24
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	3.2070e-003	3.4520e-003
tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
tblVehicleEF	LDT1	2.9540e-003	3.1830e-003
tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.23	0.25
tblVehicleEF	LDT1	0.47	0.50
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	0.36	0.40
tblVehicleEF	LDT1	3.3640e-003	3.4620e-003
tblVehicleEF	LDT1	8.4600e-004	8.7000e-004
tblVehicleEF	LDT1	0.23	0.25
tblVehicleEF	LDT1	0.47	0.50
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.07	0.08

tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	0.39	0.44
tblVehicleEF	LDT2	8.5630e-003	9.7720e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.02	1.15
tblVehicleEF	LDT2	2.36	2.69
tblVehicleEF	LDT2	386.16	399.12
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.22	0.26
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	3.8710e-003	4.0030e-003
tblVehicleEF	LDT2	9.0800e-004	9.3700e-004
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	9.7130e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.24	1.40
tblVehicleEF	LDT2	1.95	2.23
tblVehicleEF	LDT2	421.64	435.78
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	4.2290e-003	4.3730e-003
tblVehicleEF	LDT2	9.0100e-004	9.2900e-004
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	8.3210e-003	9.4960e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.96	1.09
tblVehicleEF	LDT2	2.32	2.64
tblVehicleEF	LDT2	377.78	390.45
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.22	0.26
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	3.7870e-003	3.9150e-003
tblVehicleEF	LDT2	9.0800e-004	9.3600e-004
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.36	1.48
tblVehicleEF	LHD1	3.09	3.27
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.53	2.64
tblVehicleEF	LHD1	1.07	1.09
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004
tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	3.9400e-003	4.0030e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8690e-003	1.8710e-003

tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.32	0.33
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2050e-003
tblVehicleEF	LHD1	3.7900e-004	3.8900e-004
tblVehicleEF	LHD1	3.9400e-003	4.0030e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8690e-003	1.8710e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.39	1.50
tblVehicleEF	LHD1	2.89	3.06
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.37	2.47
tblVehicleEF	LHD1	1.02	1.03
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004

tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	7.8390e-003	7.9950e-003
tblVehicleEF	LHD1	0.14	0.14
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.3490e-003	4.4070e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.30	0.32
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2060e-003
tblVehicleEF	LHD1	3.7600e-004	3.8500e-004
tblVehicleEF	LHD1	7.8390e-003	7.9950e-003
tblVehicleEF	LHD1	0.14	0.14
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.3490e-003	4.4070e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.36	1.47
tblVehicleEF	LHD1	3.03	3.21
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.48	2.60
tblVehicleEF	LHD1	1.05	1.07
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004
tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	4.4110e-003	4.5270e-003
tblVehicleEF	LHD1	0.13	0.14
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8450e-003	1.8500e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.37	0.37
tblVehicleEF	LHD1	0.32	0.33
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2050e-003

tblVehicleEF	LHD1	3.7800e-004	3.8700e-004
tblVehicleEF	LHD1	4.4110e-003	4.5270e-003
tblVehicleEF	LHD1	0.13	0.14
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8450e-003	1.8500e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.37	0.37
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.7020e-003	7.7100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.51	1.65
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49
tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.14	2.37
tblVehicleEF	LHD2	0.62	0.65
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	1.6180e-003	1.7430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.5500e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.15	0.17
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8700e-004	2.9400e-004
tblVehicleEF	LHD2	1.6180e-003	1.7430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.5500e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.8110e-003	7.8410e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.42	1.55
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49

tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.01	2.23
tblVehicleEF	LHD2	0.59	0.62
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	3.1480e-003	3.4040e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8200e-003	1.9350e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8500e-004	2.9200e-004
tblVehicleEF	LHD2	3.1480e-003	3.4040e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8200e-003	1.9350e-003

tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.7130e-003	7.7230e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.49	1.62
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49
tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.10	2.33
tblVehicleEF	LHD2	0.61	0.64
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	1.7370e-003	1.9010e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	8.0100e-004	8.4300e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.15	0.16
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8600e-004	2.9400e-004
tblVehicleEF	LHD2	1.7370e-003	1.9010e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0100e-004	8.4300e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.16	0.18
tblVehicleEF	MCY	0.41	0.41
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	22.23	22.94
tblVehicleEF	MCY	9.88	9.86
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	1.44	1.44
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.31	2.37
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.21	2.22
tblVehicleEF	MCY	2.0840e-003	2.0940e-003
tblVehicleEF	MCY	7.0500e-004	7.1000e-004
tblVehicleEF	MCY	1.44	1.44
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.80	2.85
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.40	2.42
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	22.35	23.05
tblVehicleEF	MCY	9.08	9.10
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.00	1.01
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	3.14	3.13
tblVehicleEF	MCY	1.28	1.28
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	2.24	2.29
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	1.89	1.91
tblVehicleEF	MCY	2.0830e-003	2.0930e-003
tblVehicleEF	MCY	6.8200e-004	6.8700e-004
tblVehicleEF	MCY	3.14	3.13
tblVehicleEF	MCY	1.28	1.28
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	2.72	2.76
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.06	2.07
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.18	21.83
tblVehicleEF	MCY	9.49	9.47
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.14	1.14
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.72	0.72
tblVehicleEF	MCY	2.27	2.32
tblVehicleEF	MCY	0.58	0.59
tblVehicleEF	MCY	2.13	2.14
tblVehicleEF	MCY	2.0660e-003	2.0750e-003
tblVehicleEF	MCY	6.9600e-004	7.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.72	0.72
tblVehicleEF	MCY	2.75	2.80
tblVehicleEF	MCY	0.58	0.59
tblVehicleEF	MCY	2.31	2.33
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.04
tblVehicleEF	MDV	4.25	4.59
tblVehicleEF	MDV	522.82	536.32
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.24	0.27
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.35	0.38
tblVehicleEF	MDV	5.2470e-003	5.3850e-003
tblVehicleEF	MDV	1.2310e-003	1.2570e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.23	2.44
tblVehicleEF	MDV	3.55	3.83
tblVehicleEF	MDV	569.24	583.96
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.40	0.44
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.25	0.26
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.29	0.32
tblVehicleEF	MDV	5.7160e-003	5.8670e-003
tblVehicleEF	MDV	1.2180e-003	1.2430e-003
tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.25	0.26
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.77	1.93
tblVehicleEF	MDV	4.18	4.51
tblVehicleEF	MDV	511.98	525.18
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.24	0.24
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.34	0.38
tblVehicleEF	MDV	5.1370e-003	5.2720e-003
tblVehicleEF	MDV	1.2300e-003	1.2560e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.24	0.24
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	5.12	5.88
tblVehicleEF	MH	8.11	8.68
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.82	1.92
tblVehicleEF	MH	1.02	1.06
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003

tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	1.74	1.83
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.59	0.61
tblVehicleEF	MH	0.16	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.50	0.55
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.8300e-004	8.1100e-004
tblVehicleEF	MH	1.74	1.83
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.59	0.61
tblVehicleEF	MH	0.22	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.55	0.60
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	5.31	6.08
tblVehicleEF	MH	7.47	8.03
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.66	1.74
tblVehicleEF	MH	0.97	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04

tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	3.50	3.68
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.44	1.51
tblVehicleEF	MH	0.17	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7200e-004	8.0000e-004
tblVehicleEF	MH	3.50	3.68
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.44	1.51
tblVehicleEF	MH	0.23	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	5.07	5.80
tblVehicleEF	MH	7.97	8.52
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.78	1.87
tblVehicleEF	MH	1.01	1.04

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	2.13	2.25
tblVehicleEF	MH	0.14	0.14
tblVehicleEF	MH	0.62	0.64
tblVehicleEF	MH	0.16	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.50	0.54
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.8000e-004	8.0800e-004
tblVehicleEF	MH	2.13	2.25
tblVehicleEF	MH	0.14	0.14
tblVehicleEF	MH	0.62	0.64
tblVehicleEF	MH	0.22	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.54	0.59
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.1590e-003	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.46	0.49
tblVehicleEF	MHD	0.65	0.81
tblVehicleEF	MHD	7.39	8.33
tblVehicleEF	MHD	157.54	155.75

tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.21	1.31
tblVehicleEF	MHD	2.37	2.82
tblVehicleEF	MHD	11.70	11.56
tblVehicleEF	MHD	4.7630e-003	5.6590e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003
tblVehicleEF	MHD	4.5570e-003	5.4140e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	1.7760e-003	2.0290e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	8.5500e-004	9.6300e-004
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.45	0.52
tblVehicleEF	MHD	1.5140e-003	1.4970e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9000e-004	7.3200e-004
tblVehicleEF	MHD	1.7760e-003	2.0290e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	8.5500e-004	9.6300e-004
tblVehicleEF	MHD	0.14	0.17

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.49	0.56
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.2950e-003	0.01
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.34	0.36
tblVehicleEF	MHD	0.66	0.82
tblVehicleEF	MHD	6.91	7.82
tblVehicleEF	MHD	166.87	164.97
tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.25	1.36
tblVehicleEF	MHD	2.23	2.65
tblVehicleEF	MHD	11.65	11.50
tblVehicleEF	MHD	4.0150e-003	4.7700e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003
tblVehicleEF	MHD	3.8410e-003	4.5640e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	3.5610e-003	4.0950e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	2.0490e-003	2.3400e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.03

tblVehicleEF	MHD	0.43	0.49
tblVehicleEF	MHD	1.6020e-003	1.5840e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8200e-004	7.2300e-004
tblVehicleEF	MHD	3.5610e-003	4.0950e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	2.0490e-003	2.3400e-003
tblVehicleEF	MHD	0.14	0.17
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.47	0.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.1710e-003	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.64	0.68
tblVehicleEF	MHD	0.65	0.81
tblVehicleEF	MHD	7.25	8.17
tblVehicleEF	MHD	144.65	143.00
tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.16	1.26
tblVehicleEF	MHD	2.33	2.77
tblVehicleEF	MHD	11.68	11.54
tblVehicleEF	MHD	5.7950e-003	6.8860e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003

tblVehicleEF	MHD	5.5440e-003	6.5880e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	2.0110e-003	2.3270e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	8.5200e-004	9.6300e-004
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.44	0.51
tblVehicleEF	MHD	1.3930e-003	1.3770e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8800e-004	7.2900e-004
tblVehicleEF	MHD	2.0110e-003	2.3270e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	8.5200e-004	9.6300e-004
tblVehicleEF	MHD	0.14	0.17
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.49	0.56
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.27	0.28
tblVehicleEF	OBUS	0.98	1.16
tblVehicleEF	OBUS	7.52	8.02
tblVehicleEF	OBUS	68.93	68.05

tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.39	0.40
tblVehicleEF	OBUS	1.49	1.62
tblVehicleEF	OBUS	2.08	2.13
tblVehicleEF	OBUS	2.1100e-004	2.3500e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004
tblVehicleEF	OBUS	2.0200e-004	2.2500e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	2.3600e-003	2.4380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.8000e-004	1.0000e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.46	0.50
tblVehicleEF	OBUS	6.7000e-004	6.6200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.6700e-004
tblVehicleEF	OBUS	2.3600e-003	2.4380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	9.8000e-004	1.0000e-003
tblVehicleEF	OBUS	0.08	0.09

tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.51	0.54
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.27	0.27
tblVehicleEF	OBUS	1.00	1.19
tblVehicleEF	OBUS	6.90	7.35
tblVehicleEF	OBUS	71.97	71.04
tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.40	0.41
tblVehicleEF	OBUS	1.38	1.50
tblVehicleEF	OBUS	2.02	2.07
tblVehicleEF	OBUS	1.7800e-004	1.9800e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004
tblVehicleEF	OBUS	1.7000e-004	1.9000e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	4.6170e-003	4.7840e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.2950e-003	2.3650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.44	0.47
tblVehicleEF	OBUS	6.9900e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4200e-004	8.5600e-004
tblVehicleEF	OBUS	4.6170e-003	4.7840e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	2.2950e-003	2.3650e-003
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.51
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.98	1.16
tblVehicleEF	OBUS	7.46	7.96
tblVehicleEF	OBUS	64.72	63.93
tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.37	0.38
tblVehicleEF	OBUS	1.46	1.59
tblVehicleEF	OBUS	2.06	2.11
tblVehicleEF	OBUS	2.5700e-004	2.8600e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004

tblVehicleEF	OBUS	2.4600e-004	2.7400e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	2.5780e-003	2.6910e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.9800e-004	1.0220e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.46	0.49
tblVehicleEF	OBUS	6.3000e-004	6.2300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5200e-004	8.6600e-004
tblVehicleEF	OBUS	2.5780e-003	2.6910e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	9.9800e-004	1.0220e-003
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.51	0.54
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.08	0.09
tblVehicleEF	SBUS	5.44	5.33
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	5.79	6.01
tblVehicleEF	SBUS	1,293.73	1,303.92

tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	13.93	14.65
tblVehicleEF	SBUS	5.98	6.41
tblVehicleEF	SBUS	15.64	15.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	3.7220e-003	4.2060e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.65	0.64
tblVehicleEF	SBUS	1.4310e-003	1.5370e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.30	0.31
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4100e-004	4.3500e-004
tblVehicleEF	SBUS	3.7220e-003	4.2060e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.93	0.91

tblVehicleEF	SBUS	1.4310e-003	1.5370e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.33	0.34
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	5.26	5.15
tblVehicleEF	SBUS	0.85	0.96
tblVehicleEF	SBUS	3.97	4.12
tblVehicleEF	SBUS	1,360.62	1,371.70
tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	14.38	15.11
tblVehicleEF	SBUS	5.60	6.01
tblVehicleEF	SBUS	15.61	15.81
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	7.1900e-003	8.1360e-003
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	0.65	0.64
tblVehicleEF	SBUS	3.2890e-003	3.5810e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.24	0.26
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.1000e-004	4.0300e-004
tblVehicleEF	SBUS	7.1900e-003	8.1360e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.93	0.91
tblVehicleEF	SBUS	3.2890e-003	3.5810e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.27	0.28
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.08	0.09
tblVehicleEF	SBUS	5.68	5.59
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	5.85	6.07
tblVehicleEF	SBUS	1,201.37	1,210.32
tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	13.31	14.00
tblVehicleEF	SBUS	5.89	6.31

tblVehicleEF	SBUS	15.64	15.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	4.1790e-003	4.8840e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.66	0.65
tblVehicleEF	SBUS	1.4520e-003	1.5860e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.31	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4200e-004	4.3600e-004
tblVehicleEF	SBUS	4.1790e-003	4.8840e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.94	0.92
tblVehicleEF	SBUS	1.4520e-003	1.5860e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.33	0.35
tblVehicleEF	UBUS	2.18	2.30

tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	10.98	11.59
tblVehicleEF	UBUS	16.03	16.73
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.84	8.53
tblVehicleEF	UBUS	14.21	14.43
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	9.0440e-003	9.3450e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	4.3140e-003	4.4380e-003
tblVehicleEF	UBUS	0.78	0.84
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.26	1.29
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.6090e-003	1.6080e-003
tblVehicleEF	UBUS	9.0440e-003	9.3450e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	4.3140e-003	4.4380e-003
tblVehicleEF	UBUS	3.05	3.24
tblVehicleEF	UBUS	0.02	0.02

tblVehicleEF	UBUS	1.38	1.42
tblVehicleEF	UBUS	2.18	2.31
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	11.10	11.72
tblVehicleEF	UBUS	13.14	13.72
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.29	7.93
tblVehicleEF	UBUS	14.09	14.30
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.16	0.17
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.80	0.86
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.12	1.15
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.5590e-003	1.5560e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.16	0.17
tblVehicleEF	UBUS	0.01	0.01

tblVehicleEF	UBUS	3.07	3.26
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.23	1.26
tblVehicleEF	UBUS	2.18	2.30
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	10.99	11.59
tblVehicleEF	UBUS	15.49	16.18
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.69	8.37
tblVehicleEF	UBUS	14.19	14.41
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	4.5490e-003	4.6930e-003
tblVehicleEF	UBUS	0.79	0.84
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.24	1.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.6000e-003	1.5980e-003
tblVehicleEF	UBUS	0.01	0.01

tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	4.5490e-003	4.6930e-003
tblVehicleEF	UBUS	3.05	3.24
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.39
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	40,545,062.50	0.00
tblWater	IndoorWaterUseRate	350,267,437.50	0.00

2.0 Emissions Summary

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	16.8804	166.5597	116.0586	0.3700	31.4656	6.7813	38.2470	14.1985	6.2398	20.4383	0.0000	37,611.2495	37,611.2495	4.9865	0.0000	37,683.2897
2019	86.9895	117.6823	125.2368	0.4066	24.4258	3.0509	27.4767	6.5651	2.9163	9.4814	0.0000	41,169.4023	41,169.4023	2.9597	0.0000	41,243.3940
Maximum	**86.9895**	**166.5597**	**125.2368**	**0.4066**	**31.4656**	**6.7813**	**38.2470**	**14.1985**	**6.2398**	**20.4383**	**0.0000**	**41,169.4023**	**41,169.4023**	**4.9865**	**0.0000**	**41,243.3940**

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	16.0225	110.0437	117.1587	0.3700	20.9943	3.2950	23.5247	5.7001	3.2260	8.9261	0.0000	37,611.2495	37,611.2495	4.9865	0.0000	37,683.2897
2019	86.2650	111.1505	126.7946	0.4066	24.4258	2.7496	27.1754	6.5651	2.6558	9.2208	0.0000	41,169.4023	41,169.4023	2.9597	0.0000	41,243.3940
Maximum	**86.2650**	**111.1505**	**126.7946**	**0.4066**	**24.4258**	**3.2950**	**27.1754**	**6.5651**	**3.2260**	**9.2208**	**0.0000**	**41,169.4023**	**41,169.4023**	**4.9865**	**0.0000**	**41,243.3940**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**1.52**	**22.18**	**-1.10**	**0.00**	**18.74**	**38.52**	**22.86**	**40.93**	**35.76**	**39.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
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
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**	**0.0000**	**0.4055**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
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
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**	**0.0000**	**0.4055**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2018	6/28/2018	5	20	
2	Grading	Grading	6/29/2018	8/30/2018	5	45	
3	Building Construction	Building Construction	8/31/2018	10/24/2019	5	300	
4	Architectural Coating	Architectural Coating	3/29/2019	10/24/2019	5	150	
5	Paving	Paving	10/25/2019	12/26/2019	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 270

Acres of Paving: 45.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,535,000; Non-Residential Outdoor: 845,000; Striped Parking Area: 117,899 (Architectural Coating – sqft)

OffRoad Equipment

Colony Commerce Center Construction Mitigated - 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	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	4	8.00	187	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.50
Grading	Rubber Tired Dozers	4	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	2	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	3	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	455.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	18	45.00	0.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	1,535.00	599.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	307.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

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					4.9218	0.0000	4.9218	0.7452	0.0000	0.7452			0.0000			0.0000
Off-Road	4.1081	39.7648	23.4286	0.0407		2.1205	2.1205		1.9988	1.9988		4,016.7116	4,016.7116	0.9658		4,040.8557
Total	**4.1081**	**39.7648**	**23.4286**	**0.0407**	**4.9218**	**2.1205**	**7.0423**	**0.7452**	**1.9988**	**2.7440**		**4,016.7116**	**4,016.7116**	**0.9658**		**4,040.8557**

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	0.1694	6.4514	1.0468	0.0178	0.3982	0.0228	0.4209	0.1092	0.0218	0.1309		1,887.5272	1,887.5272	0.1150		1,890.4028
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	0.0976	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
Total	**0.2669**	**6.5223**	**1.7427**	**0.0194**	**0.5658**	**0.0239**	**0.5898**	**0.1536**	**0.0228**	**0.1765**		**2,050.0117**	**2,050.0117**	**0.1209**		**2,053.0340**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9195	0.0000	1.9195	0.2906	0.0000	0.2906			0.0000			0.0000
Off-Road	1.8699	21.4519	25.0215	0.0407		1.1430	1.1430		1.1430	1.1430	0.0000	4,016.7116	4,016.7116	0.9658		4,040.8557
Total	**1.8699**	**21.4519**	**25.0215**	**0.0407**	**1.9195**	**1.1430**	**3.0624**	**0.2906**	**1.1430**	**1.4336**	**0.0000**	**4,016.7116**	**4,016.7116**	**0.9658**		**4,040.8557**

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	0.1694	6.4514	1.0468	0.0178	0.3982	0.0228	0.4209	0.1092	0.0218	0.1309		1,887.5272	1,887.5272	0.1150		1,890.4028
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	0.0976	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
Total	**0.2669**	**6.5223**	**1.7427**	**0.0194**	**0.5658**	**0.0239**	**0.5898**	**0.1536**	**0.0228**	**0.1765**		**2,050.0117**	**2,050.0117**	**0.1209**		**2,053.0340**

3.3 Grading - 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					30.4765	0.0000	30.4765	13.9318	0.0000	13.9318			0.0000			0.0000
Off-Road	13.5770	158.4698	76.6807	0.1541		6.7500	6.7500		6.2100	6.2100		15,509.8304	15,509.8304	4.8284		15,630.5409
Total	**13.5770**	**158.4698**	**76.6807**	**0.1541**	**30.4765**	**6.7500**	**37.2265**	**13.9318**	**6.2100**	**20.1418**		**15,509.8304**	**15,509.8304**	**4.8284**		**15,630.5409**

3.3 Grading - 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	0.2068	7.8772	1.2781	0.0217	0.4862	0.0278	0.5140	0.1333	0.0266	0.1599		2,304.6731	2,304.6731	0.1404		2,308.1842
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	0.2927	0.2127	2.0878	4.9000e-003	0.5030	3.4900e-003	0.5065	0.1334	3.2200e-003	0.1366		487.4535	487.4535	0.0176		487.8936
Total	**0.4995**	**8.0899**	**3.3659**	**0.0266**	**0.9892**	**0.0313**	**1.0204**	**0.2667**	**0.0298**	**0.2965**		**2,792.1265**	**2,792.1265**	**0.1581**		**2,796.0778**

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					11.8858	0.0000	11.8858	5.4334	0.0000	5.4334			0.0000			0.0000
Off-Road	4.8988	79.2271	82.1514	0.1541		3.2637	3.2637		3.1962	3.1962	0.0000	15,509.8304	15,509.8304	4.8284		15,630.5409
Total	**4.8988**	**79.2271**	**82.1514**	**0.1541**	**11.8858**	**3.2637**	**15.1495**	**5.4334**	**3.1962**	**8.6296**	**0.0000**	**15,509.8304**	**15,509.8304**	**4.8284**		**15,630.5409**

3.3 Grading - 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	0.2068	7.8772	1.2781	0.0217	0.4862	0.0278	0.5140	0.1333	0.0266	0.1599		2,304.6731	2,304.6731	0.1404		2,308.1842
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	0.2927	0.2127	2.0878	4.9000e-003	0.5030	3.4900e-003	0.5065	0.1334	3.2200e-003	0.1366		487.4535	487.4535	0.0176		487.8936
Total	**0.4995**	**8.0899**	**3.3659**	**0.0266**	**0.9892**	**0.0313**	**1.0204**	**0.2667**	**0.0298**	**0.2965**		**2,792.1265**	**2,792.1265**	**0.1581**		**2,796.0778**

3.4 Building Construction - 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	4.3685	37.8449	26.9000	0.0437		2.2774	2.2774		2.1553	2.1553		4,221.9111	4,221.9111	0.9667		4,246.0792
Total	**4.3685**	**37.8449**	**26.9000**	**0.0437**		**2.2774**	**2.2774**		**2.1553**	**2.1553**		**4,221.9111**	**4,221.9111**	**0.9667**		**4,246.0792**

3.4 Building Construction - 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	2.5272	73.1032	17.9422	0.1591	3.8366	0.5163	4.3530	1.1047	0.4940	1.5987		16,761.7592	16,761.7592	1.3143		16,794.6167
Worker	9.9847	7.2550	71.2164	0.1671	17.1577	0.1192	17.2769	4.5503	0.1098	4.6601		16,627.5792	16,627.5792	0.6006		16,642.5938
Total	**12.5119**	**80.3582**	**89.1586**	**0.3263**	**20.9943**	**0.6355**	**21.6298**	**5.6550**	**0.6038**	**6.2588**		**33,389.3384**	**33,389.3384**	**1.9149**		**33,437.2105**

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	3.5106	29.6855	28.0001	0.0437		1.8949	1.8949		1.8201	1.8201	0.0000	4,221.9111	4,221.9111	0.9667		4,246.0792
Total	**3.5106**	**29.6855**	**28.0001**	**0.0437**		**1.8949**	**1.8949**		**1.8201**	**1.8201**	**0.0000**	**4,221.9111**	**4,221.9111**	**0.9667**		**4,246.0792**

3.4 Building Construction - 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	2.5272	73.1032	17.9422	0.1591	3.8366	0.5163	4.3530	1.1047	0.4940	1.5987		16,761.7592	16,761.7592	1.3143		16,794.6167
Worker	9.9847	7.2550	71.2164	0.1671	17.1577	0.1192	17.2769	4.5503	0.1098	4.6601		16,627.5792	16,627.5792	0.6006		16,642.5938
Total	**12.5119**	**80.3582**	**89.1586**	**0.3263**	**20.9943**	**0.6355**	**21.6298**	**5.6550**	**0.6038**	**6.2588**		**33,389.3384**	**33,389.3384**	**1.9149**		**33,437.2105**

3.4 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	3.8447	34.1154	26.1372	0.0437		1.9604	1.9604		1.8556	1.8556		4,180.0326	4,180.0326	0.9453		4,203.6648
Total	**3.8447**	**34.1154**	**26.1372**	**0.0437**		**1.9604**	**1.9604**		**1.8556**	**1.8556**		**4,180.0326**	**4,180.0326**	**0.9453**		**4,203.6648**

3.4 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	2.2559	68.5770	16.1274	0.1574	3.8366	0.4371	4.2736	1.1047	0.4181	1.5228		16,589.2476	16,589.2476	1.2870		16,621.4218
Worker	9.0865	6.3737	63.0058	0.1614	17.1577	0.1154	17.2731	4.5503	0.1063	4.6566		16,061.9416	16,061.9416	0.5269		16,075.1150
Total	**11.3424**	**74.9507**	**79.1332**	**0.3188**	**20.9942**	**0.5525**	**21.5467**	**5.6550**	**0.5244**	**6.1794**		**32,651.1893**	**32,651.1893**	**1.8139**		**32,696.5368**

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	3.1202	27.5835	27.6949	0.0437		1.6590	1.6590		1.5950	1.5950	0.0000	4,180.0326	4,180.0326	0.9453		4,203.6648
Total	**3.1202**	**27.5835**	**27.6949**	**0.0437**		**1.6590**	**1.6590**		**1.5950**	**1.5950**	**0.0000**	**4,180.0326**	**4,180.0326**	**0.9453**		**4,203.6648**

3.4 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	2.2559	68.5770	16.1274	0.1574	3.8366	0.4371	4.2736	1.1047	0.4181	1.5228		16,589.2476	16,589.2476	1.2870		16,621.4218
Worker	9.0865	6.3737	63.0058	0.1614	17.1577	0.1154	17.2731	4.5503	0.1063	4.6566		16,061.9416	16,061.9416	0.5269		16,075.1150
Total	**11.3424**	**74.9507**	**79.1332**	**0.3188**	**20.9942**	**0.5525**	**21.5467**	**5.6550**	**0.5244**	**6.1794**		**32,651.1893**	**32,651.1893**	**1.8139**		**32,696.5368**

3.5 Architectural Coating - 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					
Archit. Coating	68.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0658	7.3415	7.3653	0.0119		0.5151	0.5151		0.5151	0.5151		1,125.7922	1,125.7922	0.0951		1,128.1694
Total	**69.9851**	**7.3415**	**7.3653**	**0.0119**		**0.5151**	**0.5151**		**0.5151**	**0.5151**		**1,125.7922**	**1,125.7922**	**0.0951**		**1,128.1694**

3.5 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.8173	1.2747	12.6012	0.0323	3.4315	0.0231	3.4546	0.9101	0.0213	0.9313		3,212.3883	3,212.3883	0.1054		3,215.0230
Total	**1.8173**	**1.2747**	**12.6012**	**0.0323**	**3.4315**	**0.0231**	**3.4546**	**0.9101**	**0.0213**	**0.9313**		**3,212.3883**	**3,212.3883**	**0.1054**		**3,215.0230**

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	68.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0658	7.3415	7.3653	0.0119		0.5151	0.5151		0.5151	0.5151	0.0000	1,125.7922	1,125.7922	0.0951		1,128.1694
Total	**69.9851**	**7.3415**	**7.3653**	**0.0119**		**0.5151**	**0.5151**		**0.5151**	**0.5151**	**0.0000**	**1,125.7922**	**1,125.7922**	**0.0951**		**1,128.1694**

3.5 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.8173	1.2747	12.6012	0.0323	3.4315	0.0231	3.4546	0.9101	0.0213	0.9313		3,212.3883	3,212.3883	0.1054		3,215.0230
Total	**1.8173**	**1.2747**	**12.6012**	**0.0323**	**3.4315**	**0.0231**	**3.4546**	**0.9101**	**0.0213**	**0.9313**		**3,212.3883**	**3,212.3883**	**0.1054**		**3,215.0230**

3.6 Paving - 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	2.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0808**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.6 Paving - 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	0.0000	0.0000	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	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858
Total	**0.0888**	**0.0623**	**0.6157**	**1.5800e-003**	**0.1677**	**1.1300e-003**	**0.1688**	**0.0445**	**1.0400e-003**	**0.0455**		**156.9571**	**156.9571**	**5.1500e-003**		**157.0858**

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	2.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0808**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.6 Paving - 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	0.0000	0.0000	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	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858
Total	**0.0888**	**0.0623**	**0.6157**	**1.5800e-003**	**0.1677**	**1.1300e-003**	**0.1688**	**0.0445**	**1.0400e-003**	**0.0455**		**156.9571**	**156.9571**	**5.1500e-003**		**157.0858**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Unrefrigerated Warehouse-No Rail	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Parking Lot	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163

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

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					
Manufacturing	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
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Manufacturing	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
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Unmitigated	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**		**0.4055**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**		**0.4055**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Center Construction Unmitigated

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	4.03	175,330.00	0
Unrefrigerated Warehouse-No Rail	1,514.67	1000sqft	34.77	1,514,670.00	0
Parking Lot	45.11	Acre	45.11	1,964,991.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics - Construction Only

Land Use -

Construction Phase - Based on consulatation with the client and a 2019 opening year

Off-road Equipment - Based on consultation with the client

Off-road Equipment - Based on consultation with the client and 8 hour workday

Off-road Equipment - Based on consultation with the client

Off-road Equipment - Based on consultation with the client

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Rule 1113

Vehicle Trips - Construction only

Road Dust -

Consumer Products - Construction only

Area Coating - Construction only

Landscape Equipment - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	845000	836247
tblAreaCoating	Area_Nonresidential_Interior	2535000	2508740
tblAreaCoating	Area_Parking	117899	47976

tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	110.00	150.00
tblConstructionPhase	NumDays	1,550.00	300.00
tblConstructionPhase	NumDays	100.00	20.00
tblConstructionPhase	NumDays	155.00	45.00
tblConstructionPhase	NumDays	110.00	45.00
tblConstructionPhase	PhaseEndDate	7/24/2019	10/24/2019
tblConstructionPhase	PhaseEndDate	10/24/2018	10/24/2019
tblConstructionPhase	PhaseEndDate	6/28/2017	6/28/2018
tblConstructionPhase	PhaseEndDate	8/30/2017	8/30/2018
tblConstructionPhase	PhaseEndDate	12/26/2018	12/26/2019
tblConstructionPhase	PhaseStartDate	12/27/2018	3/29/2019
tblConstructionPhase	PhaseStartDate	8/31/2017	8/31/2018
tblConstructionPhase	PhaseStartDate	6/1/2017	6/1/2018
tblConstructionPhase	PhaseStartDate	6/29/2017	6/29/2018
tblConstructionPhase	PhaseStartDate	10/25/2018	10/25/2019
tblConsumerProducts	ROG_EF	1.98E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.01	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	1.20	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	2.31	0.00

tblEnergyUse	T24E	0.39	0.00
tblEnergyUse	T24NG	15.43	0.00
tblEnergyUse	T24NG	2.02	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblOffRoadEquipment	HorsePower	402.00	189.00
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblSolidWaste	SolidWasteGenerationRate	217.41	0.00
tblSolidWaste	SolidWasteGenerationRate	1,423.79	0.00
tblVehicleEF	HHD	1.30	1.30
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.15	0.17
tblVehicleEF	HHD	3.95	4.16
tblVehicleEF	HHD	0.61	0.63
tblVehicleEF	HHD	2.33	2.59
tblVehicleEF	HHD	7,067.05	7,094.85

tblVehicleEF	HHD	1,525.94	1,547.41
tblVehicleEF	HHD	6.58	7.14
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	31.41	33.05
tblVehicleEF	HHD	3.55	3.88
tblVehicleEF	HHD	20.16	20.14
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0200e-004	1.3500e-004
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	9.5000e-005	1.2600e-004
tblVehicleEF	HHD	1.2700e-004	1.5000e-004
tblVehicleEF	HHD	5.2440e-003	6.3930e-003
tblVehicleEF	HHD	1.02	1.08
tblVehicleEF	HHD	7.6000e-005	8.8000e-005
tblVehicleEF	HHD	0.10	0.10
tblVehicleEF	HHD	3.5600e-004	4.2700e-004
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0500e-004	1.1500e-004
tblVehicleEF	HHD	1.2700e-004	1.5000e-004
tblVehicleEF	HHD	5.2440e-003	6.3930e-003

tblVehicleEF	HHD	1.17	1.24
tblVehicleEF	HHD	7.6000e-005	8.8000e-005
tblVehicleEF	HHD	0.14	0.15
tblVehicleEF	HHD	3.5600e-004	4.2700e-004
tblVehicleEF	HHD	0.10	0.11
tblVehicleEF	HHD	1.23	1.22
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.14	0.16
tblVehicleEF	HHD	2.88	3.04
tblVehicleEF	HHD	0.61	0.63
tblVehicleEF	HHD	2.20	2.46
tblVehicleEF	HHD	7,480.60	7,508.43
tblVehicleEF	HHD	1,525.94	1,547.41
tblVehicleEF	HHD	6.58	7.14
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	32.40	34.09
tblVehicleEF	HHD	3.34	3.66
tblVehicleEF	HHD	20.15	20.13
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0200e-004	1.3500e-004
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	9.5000e-005	1.2600e-004

tblVehicleEF	HHD	2.5700e-004	3.0800e-004
tblVehicleEF	HHD	6.1140e-003	7.5490e-003
tblVehicleEF	HHD	0.96	1.02
tblVehicleEF	HHD	1.8200e-004	2.1700e-004
tblVehicleEF	HHD	0.10	0.10
tblVehicleEF	HHD	3.6800e-004	4.4200e-004
tblVehicleEF	HHD	0.08	0.10
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0300e-004	1.1300e-004
tblVehicleEF	HHD	2.5700e-004	3.0800e-004
tblVehicleEF	HHD	6.1140e-003	7.5490e-003
tblVehicleEF	HHD	1.11	1.17
tblVehicleEF	HHD	1.8200e-004	2.1700e-004
tblVehicleEF	HHD	0.14	0.15
tblVehicleEF	HHD	3.6800e-004	4.4200e-004
tblVehicleEF	HHD	0.09	0.11
tblVehicleEF	HHD	1.40	1.40
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.15	0.16
tblVehicleEF	HHD	5.42	5.71
tblVehicleEF	HHD	0.61	0.63
tblVehicleEF	HHD	2.28	2.53
tblVehicleEF	HHD	6,495.97	6,523.71
tblVehicleEF	HHD	1,525.94	1,547.41
tblVehicleEF	HHD	6.58	7.14
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	30.04	31.61
tblVehicleEF	HHD	3.50	3.82
tblVehicleEF	HHD	20.16	20.13
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0200e-004	1.3500e-004
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	9.5000e-005	1.2600e-004
tblVehicleEF	HHD	1.3400e-004	1.6100e-004
tblVehicleEF	HHD	6.2040e-003	7.7760e-003
tblVehicleEF	HHD	1.10	1.16
tblVehicleEF	HHD	7.5000e-005	8.7000e-005
tblVehicleEF	HHD	0.10	0.10
tblVehicleEF	HHD	3.7900e-004	4.5200e-004
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0400e-004	1.1400e-004
tblVehicleEF	HHD	1.3400e-004	1.6100e-004
tblVehicleEF	HHD	6.2040e-003	7.7760e-003
tblVehicleEF	HHD	1.26	1.33
tblVehicleEF	HHD	7.5000e-005	8.7000e-005
tblVehicleEF	HHD	0.14	0.15

tblVehicleEF	HHD	3.7900e-004	4.5200e-004
tblVehicleEF	HHD	0.09	0.11
tblVehicleEF	LDA	5.8010e-003	6.6340e-003
tblVehicleEF	LDA	8.7310e-003	0.01
tblVehicleEF	LDA	0.72	0.81
tblVehicleEF	LDA	1.67	1.91
tblVehicleEF	LDA	282.20	293.78
tblVehicleEF	LDA	63.35	65.27
tblVehicleEF	LDA	0.54	0.54
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
tblVehicleEF	LDA	2.3410e-003	2.3620e-003
tblVehicleEF	LDA	1.6120e-003	1.6250e-003
tblVehicleEF	LDA	2.1530e-003	2.1730e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.8280e-003	2.9450e-003
tblVehicleEF	LDA	6.6200e-004	6.8600e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.03

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	6.6200e-003	7.5570e-003
tblVehicleEF	LDA	7.2800e-003	8.6280e-003
tblVehicleEF	LDA	0.88	0.99
tblVehicleEF	LDA	1.38	1.58
tblVehicleEF	LDA	308.85	321.54
tblVehicleEF	LDA	63.35	65.27
tblVehicleEF	LDA	0.54	0.54
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
tblVehicleEF	LDA	2.3410e-003	2.3620e-003
tblVehicleEF	LDA	1.6120e-003	1.6250e-003
tblVehicleEF	LDA	2.1530e-003	2.1730e-003
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	3.0960e-003	3.2250e-003
tblVehicleEF	LDA	6.5700e-004	6.8000e-004
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.02	0.03

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	5.6310e-003	6.4390e-003
tblVehicleEF	LDA	8.6650e-003	0.01
tblVehicleEF	LDA	0.68	0.76
tblVehicleEF	LDA	1.65	1.87
tblVehicleEF	LDA	275.91	287.22
tblVehicleEF	LDA	63.35	65.27
tblVehicleEF	LDA	0.54	0.54
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
tblVehicleEF	LDA	2.3410e-003	2.3620e-003
tblVehicleEF	LDA	1.6120e-003	1.6250e-003
tblVehicleEF	LDA	2.1530e-003	2.1730e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.7640e-003	2.8790e-003
tblVehicleEF	LDA	6.6200e-004	6.8600e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02

tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.11	2.39
tblVehicleEF	LDT1	4.94	5.45
tblVehicleEF	LDT1	340.78	350.33
tblVehicleEF	LDT1	75.92	77.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.23	0.25
tblVehicleEF	LDT1	0.30	0.33
tblVehicleEF	LDT1	3.2070e-003	3.4520e-003
tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
tblVehicleEF	LDT1	2.9540e-003	3.1830e-003
tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.40	0.43
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.36	0.41
tblVehicleEF	LDT1	3.4370e-003	3.5370e-003
tblVehicleEF	LDT1	8.4700e-004	8.7100e-004
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.40	0.43
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.07	0.09

tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.40	0.45
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	2.52	2.85
tblVehicleEF	LDT1	4.07	4.49
tblVehicleEF	LDT1	371.05	381.30
tblVehicleEF	LDT1	75.92	77.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.27	0.30
tblVehicleEF	LDT1	3.2070e-003	3.4520e-003
tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
tblVehicleEF	LDT1	2.9540e-003	3.1830e-003
tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.45	0.48
tblVehicleEF	LDT1	0.50	0.54
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.30	0.34
tblVehicleEF	LDT1	3.7450e-003	3.8530e-003
tblVehicleEF	LDT1	8.3200e-004	8.5400e-004
tblVehicleEF	LDT1	0.45	0.48
tblVehicleEF	LDT1	0.50	0.54
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.08	0.10

tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.33	0.37
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.00	2.27
tblVehicleEF	LDT1	4.85	5.35
tblVehicleEF	LDT1	333.64	343.01
tblVehicleEF	LDT1	75.92	77.37
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.21	0.24
tblVehicleEF	LDT1	0.29	0.32
tblVehicleEF	LDT1	3.2070e-003	3.4520e-003
tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
tblVehicleEF	LDT1	2.9540e-003	3.1830e-003
tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.23	0.25
tblVehicleEF	LDT1	0.47	0.50
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	0.36	0.40
tblVehicleEF	LDT1	3.3640e-003	3.4620e-003
tblVehicleEF	LDT1	8.4600e-004	8.7000e-004
tblVehicleEF	LDT1	0.23	0.25
tblVehicleEF	LDT1	0.47	0.50
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.07	0.08

tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	0.39	0.44
tblVehicleEF	LDT2	8.5630e-003	9.7720e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.02	1.15
tblVehicleEF	LDT2	2.36	2.69
tblVehicleEF	LDT2	386.16	399.12
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.22	0.26
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	3.8710e-003	4.0030e-003
tblVehicleEF	LDT2	9.0800e-004	9.3700e-004
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	9.7130e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.24	1.40
tblVehicleEF	LDT2	1.95	2.23
tblVehicleEF	LDT2	421.64	435.78
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	4.2290e-003	4.3730e-003
tblVehicleEF	LDT2	9.0100e-004	9.2900e-004
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	8.3210e-003	9.4960e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.96	1.09
tblVehicleEF	LDT2	2.32	2.64
tblVehicleEF	LDT2	377.78	390.45
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.22	0.26
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	3.7870e-003	3.9150e-003
tblVehicleEF	LDT2	9.0800e-004	9.3600e-004
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.36	1.48
tblVehicleEF	LHD1	3.09	3.27
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.53	2.64
tblVehicleEF	LHD1	1.07	1.09
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004
tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	3.9400e-003	4.0030e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8690e-003	1.8710e-003

tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.32	0.33
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2050e-003
tblVehicleEF	LHD1	3.7900e-004	3.8900e-004
tblVehicleEF	LHD1	3.9400e-003	4.0030e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8690e-003	1.8710e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.39	1.50
tblVehicleEF	LHD1	2.89	3.06
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.37	2.47
tblVehicleEF	LHD1	1.02	1.03
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004

tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	7.8390e-003	7.9950e-003
tblVehicleEF	LHD1	0.14	0.14
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.3490e-003	4.4070e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.30	0.32
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2060e-003
tblVehicleEF	LHD1	3.7600e-004	3.8500e-004
tblVehicleEF	LHD1	7.8390e-003	7.9950e-003
tblVehicleEF	LHD1	0.14	0.14
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.3490e-003	4.4070e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.36	1.47
tblVehicleEF	LHD1	3.03	3.21
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.48	2.60
tblVehicleEF	LHD1	1.05	1.07
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004
tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	4.4110e-003	4.5270e-003
tblVehicleEF	LHD1	0.13	0.14
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8450e-003	1.8500e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.37	0.37
tblVehicleEF	LHD1	0.32	0.33
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2050e-003

tblVehicleEF	LHD1	3.7800e-004	3.8700e-004
tblVehicleEF	LHD1	4.4110e-003	4.5270e-003
tblVehicleEF	LHD1	0.13	0.14
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8450e-003	1.8500e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.37	0.37
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.7020e-003	7.7100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.51	1.65
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49
tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.14	2.37
tblVehicleEF	LHD2	0.62	0.65
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	1.6180e-003	1.7430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.5500e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.15	0.17
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8700e-004	2.9400e-004
tblVehicleEF	LHD2	1.6180e-003	1.7430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.5500e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.8110e-003	7.8410e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.42	1.55
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49

tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.01	2.23
tblVehicleEF	LHD2	0.59	0.62
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	3.1480e-003	3.4040e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8200e-003	1.9350e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8500e-004	2.9200e-004
tblVehicleEF	LHD2	3.1480e-003	3.4040e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8200e-003	1.9350e-003

tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.7130e-003	7.7230e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.49	1.62
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49
tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.10	2.33
tblVehicleEF	LHD2	0.61	0.64
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	1.7370e-003	1.9010e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	8.0100e-004	8.4300e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.15	0.16
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8600e-004	2.9400e-004
tblVehicleEF	LHD2	1.7370e-003	1.9010e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0100e-004	8.4300e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.16	0.18
tblVehicleEF	MCY	0.41	0.41
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	22.23	22.94
tblVehicleEF	MCY	9.88	9.86
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	1.44	1.44
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.31	2.37
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.21	2.22
tblVehicleEF	MCY	2.0840e-003	2.0940e-003
tblVehicleEF	MCY	7.0500e-004	7.1000e-004
tblVehicleEF	MCY	1.44	1.44
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.80	2.85
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.40	2.42
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	22.35	23.05
tblVehicleEF	MCY	9.08	9.10
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.00	1.01
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	3.14	3.13
tblVehicleEF	MCY	1.28	1.28
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	2.24	2.29
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	1.89	1.91
tblVehicleEF	MCY	2.0830e-003	2.0930e-003
tblVehicleEF	MCY	6.8200e-004	6.8700e-004
tblVehicleEF	MCY	3.14	3.13
tblVehicleEF	MCY	1.28	1.28
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	2.72	2.76
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.06	2.07
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.18	21.83
tblVehicleEF	MCY	9.49	9.47
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.14	1.14
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.72	0.72
tblVehicleEF	MCY	2.27	2.32
tblVehicleEF	MCY	0.58	0.59
tblVehicleEF	MCY	2.13	2.14
tblVehicleEF	MCY	2.0660e-003	2.0750e-003
tblVehicleEF	MCY	6.9600e-004	7.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.72	0.72
tblVehicleEF	MCY	2.75	2.80
tblVehicleEF	MCY	0.58	0.59
tblVehicleEF	MCY	2.31	2.33
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.04
tblVehicleEF	MDV	4.25	4.59
tblVehicleEF	MDV	522.82	536.32
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.24	0.27
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.35	0.38
tblVehicleEF	MDV	5.2470e-003	5.3850e-003
tblVehicleEF	MDV	1.2310e-003	1.2570e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.23	2.44
tblVehicleEF	MDV	3.55	3.83
tblVehicleEF	MDV	569.24	583.96
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.40	0.44
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.25	0.26
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.29	0.32
tblVehicleEF	MDV	5.7160e-003	5.8670e-003
tblVehicleEF	MDV	1.2180e-003	1.2430e-003
tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.25	0.26
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.77	1.93
tblVehicleEF	MDV	4.18	4.51
tblVehicleEF	MDV	511.98	525.18
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.24	0.24
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.34	0.38
tblVehicleEF	MDV	5.1370e-003	5.2720e-003
tblVehicleEF	MDV	1.2300e-003	1.2560e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.24	0.24
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	5.12	5.88
tblVehicleEF	MH	8.11	8.68
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.82	1.92
tblVehicleEF	MH	1.02	1.06
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003

tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	1.74	1.83
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.59	0.61
tblVehicleEF	MH	0.16	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.50	0.55
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.8300e-004	8.1100e-004
tblVehicleEF	MH	1.74	1.83
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.59	0.61
tblVehicleEF	MH	0.22	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.55	0.60
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	5.31	6.08
tblVehicleEF	MH	7.47	8.03
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.66	1.74
tblVehicleEF	MH	0.97	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04

tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	3.50	3.68
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.44	1.51
tblVehicleEF	MH	0.17	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7200e-004	8.0000e-004
tblVehicleEF	MH	3.50	3.68
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.44	1.51
tblVehicleEF	MH	0.23	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	5.07	5.80
tblVehicleEF	MH	7.97	8.52
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.78	1.87
tblVehicleEF	MH	1.01	1.04

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	2.13	2.25
tblVehicleEF	MH	0.14	0.14
tblVehicleEF	MH	0.62	0.64
tblVehicleEF	MH	0.16	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.50	0.54
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.8000e-004	8.0800e-004
tblVehicleEF	MH	2.13	2.25
tblVehicleEF	MH	0.14	0.14
tblVehicleEF	MH	0.62	0.64
tblVehicleEF	MH	0.22	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.54	0.59
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.1590e-003	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.46	0.49
tblVehicleEF	MHD	0.65	0.81
tblVehicleEF	MHD	7.39	8.33
tblVehicleEF	MHD	157.54	155.75

tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.21	1.31
tblVehicleEF	MHD	2.37	2.82
tblVehicleEF	MHD	11.70	11.56
tblVehicleEF	MHD	4.7630e-003	5.6590e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003
tblVehicleEF	MHD	4.5570e-003	5.4140e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	1.7760e-003	2.0290e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	8.5500e-004	9.6300e-004
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.45	0.52
tblVehicleEF	MHD	1.5140e-003	1.4970e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9000e-004	7.3200e-004
tblVehicleEF	MHD	1.7760e-003	2.0290e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	8.5500e-004	9.6300e-004
tblVehicleEF	MHD	0.14	0.17

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.49	0.56
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.2950e-003	0.01
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.34	0.36
tblVehicleEF	MHD	0.66	0.82
tblVehicleEF	MHD	6.91	7.82
tblVehicleEF	MHD	166.87	164.97
tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.25	1.36
tblVehicleEF	MHD	2.23	2.65
tblVehicleEF	MHD	11.65	11.50
tblVehicleEF	MHD	4.0150e-003	4.7700e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003
tblVehicleEF	MHD	3.8410e-003	4.5640e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	3.5610e-003	4.0950e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	2.0490e-003	2.3400e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.03

tblVehicleEF	MHD	0.43	0.49
tblVehicleEF	MHD	1.6020e-003	1.5840e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8200e-004	7.2300e-004
tblVehicleEF	MHD	3.5610e-003	4.0950e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	2.0490e-003	2.3400e-003
tblVehicleEF	MHD	0.14	0.17
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.47	0.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.1710e-003	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.64	0.68
tblVehicleEF	MHD	0.65	0.81
tblVehicleEF	MHD	7.25	8.17
tblVehicleEF	MHD	144.65	143.00
tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.16	1.26
tblVehicleEF	MHD	2.33	2.77
tblVehicleEF	MHD	11.68	11.54
tblVehicleEF	MHD	5.7950e-003	6.8860e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003

tblVehicleEF	MHD	5.5440e-003	6.5880e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	2.0110e-003	2.3270e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	8.5200e-004	9.6300e-004
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.44	0.51
tblVehicleEF	MHD	1.3930e-003	1.3770e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8800e-004	7.2900e-004
tblVehicleEF	MHD	2.0110e-003	2.3270e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	8.5200e-004	9.6300e-004
tblVehicleEF	MHD	0.14	0.17
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.49	0.56
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.27	0.28
tblVehicleEF	OBUS	0.98	1.16
tblVehicleEF	OBUS	7.52	8.02
tblVehicleEF	OBUS	68.93	68.05

tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.39	0.40
tblVehicleEF	OBUS	1.49	1.62
tblVehicleEF	OBUS	2.08	2.13
tblVehicleEF	OBUS	2.1100e-004	2.3500e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004
tblVehicleEF	OBUS	2.0200e-004	2.2500e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	2.3600e-003	2.4380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.8000e-004	1.0000e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.46	0.50
tblVehicleEF	OBUS	6.7000e-004	6.6200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.6700e-004
tblVehicleEF	OBUS	2.3600e-003	2.4380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	9.8000e-004	1.0000e-003
tblVehicleEF	OBUS	0.08	0.09

tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.51	0.54
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.27	0.27
tblVehicleEF	OBUS	1.00	1.19
tblVehicleEF	OBUS	6.90	7.35
tblVehicleEF	OBUS	71.97	71.04
tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.40	0.41
tblVehicleEF	OBUS	1.38	1.50
tblVehicleEF	OBUS	2.02	2.07
tblVehicleEF	OBUS	1.7800e-004	1.9800e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004
tblVehicleEF	OBUS	1.7000e-004	1.9000e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
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tblVehicleEF	OBUS	4.6170e-003	4.7840e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.2950e-003	2.3650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.44	0.47
tblVehicleEF	OBUS	6.9900e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4200e-004	8.5600e-004
tblVehicleEF	OBUS	4.6170e-003	4.7840e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	2.2950e-003	2.3650e-003
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.51
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.98	1.16
tblVehicleEF	OBUS	7.46	7.96
tblVehicleEF	OBUS	64.72	63.93
tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.37	0.38
tblVehicleEF	OBUS	1.46	1.59
tblVehicleEF	OBUS	2.06	2.11
tblVehicleEF	OBUS	2.5700e-004	2.8600e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004

tblVehicleEF	OBUS	2.4600e-004	2.7400e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	2.5780e-003	2.6910e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.9800e-004	1.0220e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.46	0.49
tblVehicleEF	OBUS	6.3000e-004	6.2300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5200e-004	8.6600e-004
tblVehicleEF	OBUS	2.5780e-003	2.6910e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	9.9800e-004	1.0220e-003
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.51	0.54
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.08	0.09
tblVehicleEF	SBUS	5.44	5.33
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	5.79	6.01
tblVehicleEF	SBUS	1,293.73	1,303.92

tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	13.93	14.65
tblVehicleEF	SBUS	5.98	6.41
tblVehicleEF	SBUS	15.64	15.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	3.7220e-003	4.2060e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.65	0.64
tblVehicleEF	SBUS	1.4310e-003	1.5370e-003
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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.30	0.31
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4100e-004	4.3500e-004
tblVehicleEF	SBUS	3.7220e-003	4.2060e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.93	0.91

tblVehicleEF	SBUS	1.4310e-003	1.5370e-003
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tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	5.26	5.15
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tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	14.38	15.11
tblVehicleEF	SBUS	5.60	6.01
tblVehicleEF	SBUS	15.61	15.81
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
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tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	7.1900e-003	8.1360e-003
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	0.65	0.64
tblVehicleEF	SBUS	3.2890e-003	3.5810e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.24	0.26
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.1000e-004	4.0300e-004
tblVehicleEF	SBUS	7.1900e-003	8.1360e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.93	0.91
tblVehicleEF	SBUS	3.2890e-003	3.5810e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.27	0.28
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.08	0.09
tblVehicleEF	SBUS	5.68	5.59
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	5.85	6.07
tblVehicleEF	SBUS	1,201.37	1,210.32
tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	13.31	14.00
tblVehicleEF	SBUS	5.89	6.31

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
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tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	4.1790e-003	4.8840e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.66	0.65
tblVehicleEF	SBUS	1.4520e-003	1.5860e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.31	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4200e-004	4.3600e-004
tblVehicleEF	SBUS	4.1790e-003	4.8840e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.94	0.92
tblVehicleEF	SBUS	1.4520e-003	1.5860e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.33	0.35
tblVehicleEF	UBUS	2.18	2.30

tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	10.98	11.59
tblVehicleEF	UBUS	16.03	16.73
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.84	8.53
tblVehicleEF	UBUS	14.21	14.43
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	9.0440e-003	9.3450e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	4.3140e-003	4.4380e-003
tblVehicleEF	UBUS	0.78	0.84
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.26	1.29
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.6090e-003	1.6080e-003
tblVehicleEF	UBUS	9.0440e-003	9.3450e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	4.3140e-003	4.4380e-003
tblVehicleEF	UBUS	3.05	3.24
tblVehicleEF	UBUS	0.02	0.02

tblVehicleEF	UBUS	1.38	1.42
tblVehicleEF	UBUS	2.18	2.31
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	11.10	11.72
tblVehicleEF	UBUS	13.14	13.72
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.29	7.93
tblVehicleEF	UBUS	14.09	14.30
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.16	0.17
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.80	0.86
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.12	1.15
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.5590e-003	1.5560e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.16	0.17
tblVehicleEF	UBUS	0.01	0.01

tblVehicleEF	UBUS	3.07	3.26
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.23	1.26
tblVehicleEF	UBUS	2.18	2.30
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	10.99	11.59
tblVehicleEF	UBUS	15.49	16.18
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.69	8.37
tblVehicleEF	UBUS	14.19	14.41
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	4.5490e-003	4.6930e-003
tblVehicleEF	UBUS	0.79	0.84
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.24	1.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.6000e-003	1.5980e-003
tblVehicleEF	UBUS	0.01	0.01

tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	4.5490e-003	4.6930e-003
tblVehicleEF	UBUS	3.05	3.24
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.39
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	40,545,062.50	0.00
tblWater	IndoorWaterUseRate	350,267,437.50	0.00

2.0 Emissions Summary

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	16.7967	166.4910	128.9741	0.3955	31.4656	6.7808	38.2465	14.1985	6.2394	20.4378	0.0000	40,182.4046	40,182.4046	4.9781	0.0000	40,253.5117
2019	86.8993	117.6941	139.3481	0.4352	24.4258	3.0452	27.4710	6.5651	2.9109	9.4759	0.0000	44,045.2637	44,045.2637	2.9275	0.0000	44,118.4508
Maximum	**86.8993**	**166.4910**	**139.3481**	**0.4352**	**31.4656**	**6.7808**	**38.2465**	**14.1985**	**6.2394**	**20.4378**	**0.0000**	**44,045.2637**	**44,045.2637**	**4.9781**	**0.0000**	**44,118.4508**

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	16.7967	166.4910	128.9741	0.3955	20.9943	6.7808	23.9007	5.7001	6.2394	11.9395	0.0000	40,182.4046	40,182.4046	4.9781	0.0000	40,253.5117
2019	86.8993	117.6941	139.3481	0.4352	24.4258	3.0452	27.4710	6.5651	2.9109	9.4759	0.0000	44,045.2637	44,045.2637	2.9275	0.0000	44,118.4508
Maximum	**86.8993**	**166.4910**	**139.3481**	**0.4352**	**24.4258**	**6.7808**	**27.4710**	**6.5651**	**6.2394**	**11.9395**	**0.0000**	**44,045.2637**	**44,045.2637**	**4.9781**	**0.0000**	**44,118.4508**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**18.74**	**0.00**	**21.83**	**40.93**	**0.00**	**28.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
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
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**	**0.0000**	**0.4055**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
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
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**	**0.0000**	**0.4055**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2018	6/28/2018	5	20	
2	Grading	Grading	6/29/2018	8/30/2018	5	45	
3	Building Construction	Building Construction	8/31/2018	10/24/2019	5	300	
4	Paving	Paving	10/25/2019	12/26/2019	5	45	
5	Architectural Coating	Architectural Coating	3/29/2019	10/24/2019	5	150	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 270

Acres of Paving: 45.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,535,000; Non-Residential Outdoor: 845,000; Striped Parking Area: 117,899 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	4	8.00	187	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.50
Grading	Rubber Tired Dozers	4	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	3	8.00	78	0.48
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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	455.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	18	45.00	0.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	1,535.00	599.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	307.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	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					4.9218	0.0000	4.9218	0.7452	0.0000	0.7452			0.0000			0.0000
Off-Road	4.1081	39.7648	23.4286	0.0407		2.1205	2.1205		1.9988	1.9988		4,016.7116	4,016.7116	0.9658		4,040.8557
Total	**4.1081**	**39.7648**	**23.4286**	**0.0407**	**4.9218**	**2.1205**	**7.0423**	**0.7452**	**1.9988**	**2.7440**		**4,016.7116**	**4,016.7116**	**0.9658**		**4,040.8557**

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	0.1621	6.4040	0.9138	0.0183	0.3982	0.0224	0.4205	0.1092	0.0214	0.1306		1,936.9163	1,936.9163	0.1062		1,939.5704
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	0.0979	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
Total	**0.2600**	**6.4713**	**1.7572**	**0.0201**	**0.5658**	**0.0235**	**0.5894**	**0.1536**	**0.0225**	**0.1761**		**2,118.0306**	**2,118.0306**	**0.1128**		**2,120.8515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9195	0.0000	1.9195	0.2906	0.0000	0.2906			0.0000			0.0000
Off-Road	4.1081	39.7648	23.4286	0.0407		2.1205	2.1205		1.9988	1.9988	0.0000	4,016.7116	4,016.7116	0.9658		4,040.8557
Total	**4.1081**	**39.7648**	**23.4286**	**0.0407**	**1.9195**	**2.1205**	**4.0400**	**0.2906**	**1.9988**	**2.2894**	**0.0000**	**4,016.7116**	**4,016.7116**	**0.9658**		**4,040.8557**

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	0.1621	6.4040	0.9138	0.0183	0.3982	0.0224	0.4205	0.1092	0.0214	0.1306		1,936.9163	1,936.9163	0.1062		1,939.5704
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	0.0979	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
Total	**0.2600**	**6.4713**	**1.7572**	**0.0201**	**0.5658**	**0.0235**	**0.5894**	**0.1536**	**0.0225**	**0.1761**		**2,118.0306**	**2,118.0306**	**0.1128**		**2,120.8515**

3.3 Grading - 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					30.4765	0.0000	30.4765	13.9318	0.0000	13.9318			0.0000			0.0000
Off-Road	13.5770	158.4698	76.6807	0.1541		6.7500	6.7500		6.2100	6.2100		15,509.8304	15,509.8304	4.8284		15,630.5409
Total	**13.5770**	**158.4698**	**76.6807**	**0.1541**	**30.4765**	**6.7500**	**37.2265**	**13.9318**	**6.2100**	**20.1418**		**15,509.8304**	**15,509.8304**	**4.8284**		**15,630.5409**

3.3 Grading - 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	0.1980	7.8193	1.1157	0.0223	0.4862	0.0273	0.5135	0.1333	0.0261	0.1594		2,364.9771	2,364.9771	0.1296		2,368.2178
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	0.2936	0.2019	2.5303	5.4600e-003	0.5030	3.4900e-003	0.5065	0.1334	3.2200e-003	0.1366		543.3429	543.3429	0.0200		543.8434
Total	**0.4915**	**8.0212**	**3.6461**	**0.0278**	**0.9892**	**0.0308**	**1.0200**	**0.2667**	**0.0293**	**0.2960**		**2,908.3200**	**2,908.3200**	**0.1497**		**2,912.0612**

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					11.8858	0.0000	11.8858	5.4334	0.0000	5.4334			0.0000			0.0000
Off-Road	13.5770	158.4698	76.6807	0.1541		6.7500	6.7500		6.2100	6.2100	0.0000	15,509.8304	15,509.8304	4.8284		15,630.5409
Total	**13.5770**	**158.4698**	**76.6807**	**0.1541**	**11.8858**	**6.7500**	**18.6359**	**5.4334**	**6.2100**	**11.6434**	**0.0000**	**15,509.8304**	**15,509.8304**	**4.8284**		**15,630.5409**

3.3 Grading - 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	0.1980	7.8193	1.1157	0.0223	0.4862	0.0273	0.5135	0.1333	0.0261	0.1594		2,364.9771	2,364.9771	0.1296		2,368.2178
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	0.2936	0.2019	2.5303	5.4600e-003	0.5030	3.4900e-003	0.5065	0.1334	3.2200e-003	0.1366		543.3429	543.3429	0.0200		543.8434
Total	**0.4915**	**8.0212**	**3.6461**	**0.0278**	**0.9892**	**0.0308**	**1.0200**	**0.2667**	**0.0293**	**0.2960**		**2,908.3200**	**2,908.3200**	**0.1497**		**2,912.0612**

3.4 Building Construction - 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	4.3685	37.8449	26.9000	0.0437		2.2774	2.2774		2.1553	2.1553		4,221.9111	4,221.9111	0.9667		4,246.0792
Total	**4.3685**	**37.8449**	**26.9000**	**0.0437**		**2.2774**	**2.2774**		**2.1553**	**2.1553**		**4,221.9111**	**4,221.9111**	**0.9667**		**4,246.0792**

3.4 Building Construction - 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	2.4138	73.4180	15.7620	0.1654	3.8366	0.5098	4.3465	1.1047	0.4877	1.5925		17,426.4638	17,426.4638	1.1947		17,456.3300
Worker	10.0144	6.8858	86.3121	0.1864	17.1577	0.1192	17.2769	4.5503	0.1098	4.6601		18,534.0298	18,534.0298	0.6829		18,551.1025
Total	**12.4282**	**80.3038**	**102.0741**	**0.3518**	**20.9943**	**0.6290**	**21.6233**	**5.6550**	**0.5976**	**6.2526**		**35,960.4936**	**35,960.4936**	**1.8776**		**36,007.4325**

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	4.3685	37.8449	26.9000	0.0437		2.2774	2.2774		2.1553	2.1553	0.0000	4,221.9111	4,221.9111	0.9667		4,246.0792
Total	**4.3685**	**37.8449**	**26.9000**	**0.0437**		**2.2774**	**2.2774**		**2.1553**	**2.1553**	**0.0000**	**4,221.9111**	**4,221.9111**	**0.9667**		**4,246.0792**

3.4 Building Construction - 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	2.4138	73.4180	15.7620	0.1654	3.8366	0.5098	4.3465	1.1047	0.4877	1.5925		17,426.4638	17,426.4638	1.1947		17,456.3300
Worker	10.0144	6.8858	86.3121	0.1864	17.1577	0.1192	17.2769	4.5503	0.1098	4.6601		18,534.0298	18,534.0298	0.6829		18,551.1025
Total	**12.4282**	**80.3038**	**102.0741**	**0.3518**	**20.9943**	**0.6290**	**21.6233**	**5.6550**	**0.5976**	**6.2526**		**35,960.4936**	**35,960.4936**	**1.8776**		**36,007.4325**

3.4 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	3.8447	34.1154	26.1372	0.0437		1.9604	1.9604		1.8556	1.8556		4,180.0326	4,180.0326	0.9453		4,203.6648
Total	**3.8447**	**34.1154**	**26.1372**	**0.0437**		**1.9604**	**1.9604**		**1.8556**	**1.8556**		**4,180.0326**	**4,180.0326**	**0.9453**		**4,203.6648**

3.4 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	2.1485	68.9732	14.0255	0.1637	3.8366	0.4314	4.2679	1.1047	0.4127	1.5174		17,254.0579	17,254.0579	1.1667		17,283.2250
Worker	9.1009	6.0534	76.5167	0.1800	17.1577	0.1154	17.2731	4.5503	0.1063	4.6566		17,904.4842	17,904.4842	0.6004		17,919.4930
Total	**11.2493**	**75.0266**	**90.5422**	**0.3437**	**20.9942**	**0.5468**	**21.5410**	**5.6550**	**0.5190**	**6.1739**		**35,158.5421**	**35,158.5421**	**1.7670**		**35,202.7180**

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	3.8447	34.1154	26.1372	0.0437		1.9604	1.9604		1.8556	1.8556	0.0000	4,180.0326	4,180.0326	0.9453		4,203.6648
Total	**3.8447**	**34.1154**	**26.1372**	**0.0437**		**1.9604**	**1.9604**		**1.8556**	**1.8556**	**0.0000**	**4,180.0326**	**4,180.0326**	**0.9453**		**4,203.6648**

3.4 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	2.1485	68.9732	14.0255	0.1637	3.8366	0.4314	4.2679	1.1047	0.4127	1.5174		17,254.0579	17,254.0579	1.1667		17,283.2250
Worker	9.1009	6.0534	76.5167	0.1800	17.1577	0.1154	17.2731	4.5503	0.1063	4.6566		17,904.4842	17,904.4842	0.6004		17,919.4930
Total	**11.2493**	**75.0266**	**90.5422**	**0.3437**	**20.9942**	**0.5468**	**21.5410**	**5.6550**	**0.5190**	**6.1739**		**35,158.5421**	**35,158.5421**	**1.7670**		**35,202.7180**

3.5 Paving - 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	2.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0808**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 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	0.0000	0.0000	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	0.0889	0.0592	0.7477	1.7600e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		174.9624	174.9624	5.8700e-003		175.1091
Total	**0.0889**	**0.0592**	**0.7477**	**1.7600e-003**	**0.1677**	**1.1300e-003**	**0.1688**	**0.0445**	**1.0400e-003**	**0.0455**		**174.9624**	**174.9624**	**5.8700e-003**		**175.1091**

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	2.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0808**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 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	0.0000	0.0000	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	0.0889	0.0592	0.7477	1.7600e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		174.9624	174.9624	5.8700e-003		175.1091
Total	**0.0889**	**0.0592**	**0.7477**	**1.7600e-003**	**0.1677**	**1.1300e-003**	**0.1688**	**0.0445**	**1.0400e-003**	**0.0455**		**174.9624**	**174.9624**	**5.8700e-003**		**175.1091**

3.6 Architectural Coating - 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					
Archit. Coating	68.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0658	7.3415	7.3653	0.0119		0.5151	0.5151		0.5151	0.5151		1,125.7922	1,125.7922	0.0951		1,128.1694
Total	**69.9851**	**7.3415**	**7.3653**	**0.0119**		**0.5151**	**0.5151**		**0.5151**	**0.5151**		**1,125.7922**	**1,125.7922**	**0.0951**		**1,128.1694**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.8202	1.2107	15.3033	0.0360	3.4315	0.0231	3.4546	0.9101	0.0213	0.9313		3,580.8968	3,580.8968	0.1201		3,583.8986
Total	**1.8202**	**1.2107**	**15.3033**	**0.0360**	**3.4315**	**0.0231**	**3.4546**	**0.9101**	**0.0213**	**0.9313**		**3,580.8968**	**3,580.8968**	**0.1201**		**3,583.8986**

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	68.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0658	7.3415	7.3653	0.0119		0.5151	0.5151		0.5151	0.5151	0.0000	1,125.7922	1,125.7922	0.0951		1,128.1694
Total	**69.9851**	**7.3415**	**7.3653**	**0.0119**		**0.5151**	**0.5151**		**0.5151**	**0.5151**	**0.0000**	**1,125.7922**	**1,125.7922**	**0.0951**		**1,128.1694**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.8202	1.2107	15.3033	0.0360	3.4315	0.0231	3.4546	0.9101	0.0213	0.9313		3,580.8968	3,580.8968	0.1201		3,583.8986
Total	**1.8202**	**1.2107**	**15.3033**	**0.0360**	**3.4315**	**0.0231**	**3.4546**	**0.9101**	**0.0213**	**0.9313**		**3,580.8968**	**3,580.8968**	**0.1201**		**3,583.8986**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Unrefrigerated Warehouse-No Rail	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Parking Lot	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163

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

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					
Manufacturing	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
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Manufacturing	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
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Unmitigated	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**		**0.4055**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**		**0.4055**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Center Construction Mitigated

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	4.03	175,330.00	0
Unrefrigerated Warehouse-No Rail	1,514.67	1000sqft	34.77	1,514,670.00	0
Parking Lot	45.11	Acre	45.11	1,964,991.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics - Construction Only

Land Use -

Construction Phase - Based on consulatation with the client and a 2019 opening year

Off-road Equipment - Based on consultation with the client

Off-road Equipment - Based on consultation with the client and 8 hour workday

Off-road Equipment - Based on consultation with the client

Off-road Equipment - Based on consultation with the client

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating - Rule 1113

Vehicle Trips - Construction only

Road Dust -

Consumer Products - Construction only

Area Coating - Construction only

Landscape Equipment - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation - All Off-Road Equipment >150 HP will be Tier 3 or better

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	845000	836247
tblAreaCoating	Area_Nonresidential_Interior	2535000	2508740
tblAreaCoating	Area_Parking	117899	47976

tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	150.00
tblConstructionPhase	NumDays	1,550.00	300.00
tblConstructionPhase	NumDays	100.00	20.00
tblConstructionPhase	NumDays	155.00	45.00
tblConstructionPhase	NumDays	110.00	45.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.01	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	1.20	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	2.31	0.00

tblEnergyUse	T24E	0.39	0.00
tblEnergyUse	T24NG	15.43	0.00
tblEnergyUse	T24NG	2.02	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblOffRoadEquipment	HorsePower	402.00	189.00
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblSolidWaste	SolidWasteGenerationRate	217.41	0.00
tblSolidWaste	SolidWasteGenerationRate	1,423.79	0.00
tblVehicleEF	HHD	1.30	1.30
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.15	0.17
tblVehicleEF	HHD	3.95	4.16
tblVehicleEF	HHD	0.61	0.63
tblVehicleEF	HHD	2.33	2.59
tblVehicleEF	HHD	7,067.05	7,094.85

tblVehicleEF	HHD	1,525.94	1,547.41
tblVehicleEF	HHD	6.58	7.14
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	31.41	33.05
tblVehicleEF	HHD	3.55	3.88
tblVehicleEF	HHD	20.16	20.14
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
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tblVehicleEF	HHD	1.2700e-004	1.5000e-004
tblVehicleEF	HHD	5.2440e-003	6.3930e-003
tblVehicleEF	HHD	1.02	1.08
tblVehicleEF	HHD	7.6000e-005	8.8000e-005
tblVehicleEF	HHD	0.10	0.10
tblVehicleEF	HHD	3.5600e-004	4.2700e-004
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0500e-004	1.1500e-004
tblVehicleEF	HHD	1.2700e-004	1.5000e-004
tblVehicleEF	HHD	5.2440e-003	6.3930e-003

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tblVehicleEF	HHD	7.6000e-005	8.8000e-005
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tblVehicleEF	HHD	3.5600e-004	4.2700e-004
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tblVehicleEF	HHD	1.23	1.22
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tblVehicleEF	HHD	0.14	0.16
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tblVehicleEF	HHD	7,480.60	7,508.43
tblVehicleEF	HHD	1,525.94	1,547.41
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tblVehicleEF	HHD	32.40	34.09
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tblVehicleEF	HHD	20.15	20.13
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0200e-004	1.3500e-004
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
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tblVehicleEF	HHD	1.8200e-004	2.1700e-004
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tblVehicleEF	HHD	3.6800e-004	4.4200e-004
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tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0300e-004	1.1300e-004
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tblVehicleEF	HHD	1.8200e-004	2.1700e-004
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tblVehicleEF	HHD	0.03	0.03
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0400e-004	1.1400e-004
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tblVehicleEF	LDA	0.54	0.54
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
tblVehicleEF	LDA	2.3410e-003	2.3620e-003
tblVehicleEF	LDA	1.6120e-003	1.6250e-003
tblVehicleEF	LDA	2.1530e-003	2.1730e-003
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tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.14
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tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.03

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.15
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tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
tblVehicleEF	LDA	2.3410e-003	2.3620e-003
tblVehicleEF	LDA	1.6120e-003	1.6250e-003
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tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	3.0960e-003	3.2250e-003
tblVehicleEF	LDA	6.5700e-004	6.8000e-004
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tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.02	0.03

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	5.6310e-003	6.4390e-003
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tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.12	0.13
tblVehicleEF	LDA	1.7480e-003	1.7610e-003
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tblVehicleEF	LDA	2.1530e-003	2.1730e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.15	0.17
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.12	0.14
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tblVehicleEF	LDA	0.02	0.02

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tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
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tblVehicleEF	LDT1	0.40	0.43
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.07	0.09

tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.40	0.45
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.03
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tblVehicleEF	LDT1	75.92	77.37
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tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.27	0.30
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tblVehicleEF	LDT1	4.3570e-003	4.6370e-003
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tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
tblVehicleEF	LDT1	0.45	0.48
tblVehicleEF	LDT1	0.50	0.54
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.30	0.34
tblVehicleEF	LDT1	3.7450e-003	3.8530e-003
tblVehicleEF	LDT1	8.3200e-004	8.5400e-004
tblVehicleEF	LDT1	0.45	0.48
tblVehicleEF	LDT1	0.50	0.54
tblVehicleEF	LDT1	0.32	0.34
tblVehicleEF	LDT1	0.08	0.10

tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.33	0.37
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
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tblVehicleEF	LDT1	0.21	0.24
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tblVehicleEF	LDT1	4.0080e-003	4.2700e-003
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tblVehicleEF	LDT1	0.47	0.50
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.07	0.08

tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	0.39	0.44
tblVehicleEF	LDT2	8.5630e-003	9.7720e-003
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tblVehicleEF	LDT2	2.36	2.69
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tblVehicleEF	LDT2	86.74	88.99
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tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.22	0.26
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
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tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	3.8710e-003	4.0030e-003
tblVehicleEF	LDT2	9.0800e-004	9.3700e-004
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tblVehicleEF	LDT2	0.16	0.17
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	9.7130e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.24	1.40
tblVehicleEF	LDT2	1.95	2.23
tblVehicleEF	LDT2	421.64	435.78
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.21	0.24
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	4.2290e-003	4.3730e-003
tblVehicleEF	LDT2	9.0100e-004	9.2900e-004
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	0.19	0.21
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.04	0.04

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.15	0.18
tblVehicleEF	LDT2	8.3210e-003	9.4960e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.96	1.09
tblVehicleEF	LDT2	2.32	2.64
tblVehicleEF	LDT2	377.78	390.45
tblVehicleEF	LDT2	86.74	88.99
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.22	0.26
tblVehicleEF	LDT2	1.7360e-003	1.7440e-003
tblVehicleEF	LDT2	2.4350e-003	2.4570e-003
tblVehicleEF	LDT2	1.5970e-003	1.6050e-003
tblVehicleEF	LDT2	2.2400e-003	2.2610e-003
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	3.7870e-003	3.9150e-003
tblVehicleEF	LDT2	9.0800e-004	9.3600e-004
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.36	1.48
tblVehicleEF	LHD1	3.09	3.27
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.53	2.64
tblVehicleEF	LHD1	1.07	1.09
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004
tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	3.9400e-003	4.0030e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8690e-003	1.8710e-003

tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.32	0.33
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2050e-003
tblVehicleEF	LHD1	3.7900e-004	3.8900e-004
tblVehicleEF	LHD1	3.9400e-003	4.0030e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8690e-003	1.8710e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.35	0.37
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.39	1.50
tblVehicleEF	LHD1	2.89	3.06
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.37	2.47
tblVehicleEF	LHD1	1.02	1.03
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004

tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	7.8390e-003	7.9950e-003
tblVehicleEF	LHD1	0.14	0.14
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	4.3490e-003	4.4070e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.30	0.32
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2060e-003
tblVehicleEF	LHD1	3.7600e-004	3.8500e-004
tblVehicleEF	LHD1	7.8390e-003	7.9950e-003
tblVehicleEF	LHD1	0.14	0.14
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	4.3490e-003	4.4070e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.35	0.34
tblVehicleEF	LHD1	0.33	0.35
tblVehicleEF	LHD1	5.8330e-003	5.9680e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	0.15	0.15
tblVehicleEF	LHD1	1.36	1.47
tblVehicleEF	LHD1	3.03	3.21
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	625.60	630.95
tblVehicleEF	LHD1	32.09	32.67
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	2.48	2.60
tblVehicleEF	LHD1	1.05	1.07
tblVehicleEF	LHD1	9.5300e-004	9.4200e-004
tblVehicleEF	LHD1	0.01	9.9880e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1540e-003	1.2370e-003
tblVehicleEF	LHD1	9.1200e-004	9.0100e-004
tblVehicleEF	LHD1	2.5070e-003	2.4970e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0630e-003	1.1410e-003
tblVehicleEF	LHD1	4.4110e-003	4.5270e-003
tblVehicleEF	LHD1	0.13	0.14
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8450e-003	1.8500e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.37	0.37
tblVehicleEF	LHD1	0.32	0.33
tblVehicleEF	LHD1	9.2000e-005	9.3000e-005
tblVehicleEF	LHD1	6.1490e-003	6.2050e-003

tblVehicleEF	LHD1	3.7800e-004	3.8700e-004
tblVehicleEF	LHD1	4.4110e-003	4.5270e-003
tblVehicleEF	LHD1	0.13	0.14
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8450e-003	1.8500e-003
tblVehicleEF	LHD1	0.12	0.13
tblVehicleEF	LHD1	0.37	0.37
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.7020e-003	7.7100e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.51	1.65
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49
tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.14	2.37
tblVehicleEF	LHD2	0.62	0.65
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	1.6180e-003	1.7430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.5500e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.15	0.17
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8700e-004	2.9400e-004
tblVehicleEF	LHD2	1.6180e-003	1.7430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.1500e-004	8.5500e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.8110e-003	7.8410e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.42	1.55
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49

tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.01	2.23
tblVehicleEF	LHD2	0.59	0.62
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	3.1480e-003	3.4040e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8200e-003	1.9350e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8500e-004	2.9200e-004
tblVehicleEF	LHD2	3.1480e-003	3.4040e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8200e-003	1.9350e-003

tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	4.1420e-003	4.2750e-003
tblVehicleEF	LHD2	6.7130e-003	7.7230e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.70	0.79
tblVehicleEF	LHD2	1.49	1.62
tblVehicleEF	LHD2	14.38	14.39
tblVehicleEF	LHD2	626.67	634.49
tblVehicleEF	LHD2	25.83	26.33
tblVehicleEF	LHD2	5.6710e-003	5.9060e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	2.10	2.33
tblVehicleEF	LHD2	0.61	0.64
tblVehicleEF	LHD2	1.3180e-003	1.3160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.9900e-004	5.4700e-004
tblVehicleEF	LHD2	1.2610e-003	1.2590e-003
tblVehicleEF	LHD2	2.6700e-003	2.6640e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5900e-004	5.0300e-004
tblVehicleEF	LHD2	1.7370e-003	1.9010e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	8.0100e-004	8.4300e-004
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.15	0.16
tblVehicleEF	LHD2	1.4000e-004	1.4100e-004
tblVehicleEF	LHD2	6.1020e-003	6.1810e-003
tblVehicleEF	LHD2	2.8600e-004	2.9400e-004
tblVehicleEF	LHD2	1.7370e-003	1.9010e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.0100e-004	8.4300e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.16	0.18
tblVehicleEF	MCY	0.41	0.41
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	22.23	22.94
tblVehicleEF	MCY	9.88	9.86
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	1.44	1.44
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.31	2.37
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.21	2.22
tblVehicleEF	MCY	2.0840e-003	2.0940e-003
tblVehicleEF	MCY	7.0500e-004	7.1000e-004
tblVehicleEF	MCY	1.44	1.44
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	0.81	0.80
tblVehicleEF	MCY	2.80	2.85
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.40	2.42
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	22.35	23.05
tblVehicleEF	MCY	9.08	9.10
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.00	1.01
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	3.14	3.13
tblVehicleEF	MCY	1.28	1.28
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	2.24	2.29
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	1.89	1.91
tblVehicleEF	MCY	2.0830e-003	2.0930e-003
tblVehicleEF	MCY	6.8200e-004	6.8700e-004
tblVehicleEF	MCY	3.14	3.13
tblVehicleEF	MCY	1.28	1.28
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	2.72	2.76
tblVehicleEF	MCY	0.51	0.52
tblVehicleEF	MCY	2.06	2.07
tblVehicleEF	MCY	0.40	0.40
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.18	21.83
tblVehicleEF	MCY	9.49	9.47
tblVehicleEF	MCY	165.54	165.33
tblVehicleEF	MCY	47.79	48.30
tblVehicleEF	MCY	6.2440e-003	6.3790e-003
tblVehicleEF	MCY	1.14	1.14
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	1.7240e-003	1.6830e-003
tblVehicleEF	MCY	3.9470e-003	4.0500e-003
tblVehicleEF	MCY	1.6190e-003	1.5830e-003
tblVehicleEF	MCY	3.7350e-003	3.8370e-003

tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.72	0.72
tblVehicleEF	MCY	2.27	2.32
tblVehicleEF	MCY	0.58	0.59
tblVehicleEF	MCY	2.13	2.14
tblVehicleEF	MCY	2.0660e-003	2.0750e-003
tblVehicleEF	MCY	6.9600e-004	7.0100e-004
tblVehicleEF	MCY	1.71	1.70
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.72	0.72
tblVehicleEF	MCY	2.75	2.80
tblVehicleEF	MCY	0.58	0.59
tblVehicleEF	MCY	2.31	2.33
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.04
tblVehicleEF	MDV	4.25	4.59
tblVehicleEF	MDV	522.82	536.32
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.24	0.27
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.35	0.38
tblVehicleEF	MDV	5.2470e-003	5.3850e-003
tblVehicleEF	MDV	1.2310e-003	1.2570e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.22	0.22
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.23	2.44
tblVehicleEF	MDV	3.55	3.83
tblVehicleEF	MDV	569.24	583.96
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	0.40	0.44
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.25	0.26
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.29	0.32
tblVehicleEF	MDV	5.7160e-003	5.8670e-003
tblVehicleEF	MDV	1.2180e-003	1.2430e-003
tblVehicleEF	MDV	0.21	0.22
tblVehicleEF	MDV	0.25	0.26
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.32	0.35
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.77	1.93
tblVehicleEF	MDV	4.18	4.51
tblVehicleEF	MDV	511.98	525.18
tblVehicleEF	MDV	115.47	117.45
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.43	0.46
tblVehicleEF	MDV	1.9100e-003	1.9380e-003
tblVehicleEF	MDV	2.7180e-003	2.7820e-003
tblVehicleEF	MDV	1.7630e-003	1.7900e-003
tblVehicleEF	MDV	2.5040e-003	2.5650e-003

tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.24	0.24
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.34	0.38
tblVehicleEF	MDV	5.1370e-003	5.2720e-003
tblVehicleEF	MDV	1.2300e-003	1.2560e-003
tblVehicleEF	MDV	0.10	0.11
tblVehicleEF	MDV	0.24	0.24
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.13	0.13
tblVehicleEF	MDV	0.38	0.41
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	5.12	5.88
tblVehicleEF	MH	8.11	8.68
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.82	1.92
tblVehicleEF	MH	1.02	1.06
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003

tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	1.74	1.83
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.59	0.61
tblVehicleEF	MH	0.16	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.50	0.55
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.8300e-004	8.1100e-004
tblVehicleEF	MH	1.74	1.83
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.59	0.61
tblVehicleEF	MH	0.22	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.55	0.60
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	5.31	6.08
tblVehicleEF	MH	7.47	8.03
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.66	1.74
tblVehicleEF	MH	0.97	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04

tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	3.50	3.68
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.44	1.51
tblVehicleEF	MH	0.17	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7200e-004	8.0000e-004
tblVehicleEF	MH	3.50	3.68
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.44	1.51
tblVehicleEF	MH	0.23	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	5.07	5.80
tblVehicleEF	MH	7.97	8.52
tblVehicleEF	MH	1,047.38	1,058.82
tblVehicleEF	MH	64.00	65.78
tblVehicleEF	MH	1.1630e-003	1.2510e-003
tblVehicleEF	MH	1.78	1.87
tblVehicleEF	MH	1.01	1.04

tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8240e-003	2.0800e-003
tblVehicleEF	MH	3.2160e-003	3.2130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6950e-003	1.9370e-003
tblVehicleEF	MH	2.13	2.25
tblVehicleEF	MH	0.14	0.14
tblVehicleEF	MH	0.62	0.64
tblVehicleEF	MH	0.16	0.18
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.50	0.54
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.8000e-004	8.0800e-004
tblVehicleEF	MH	2.13	2.25
tblVehicleEF	MH	0.14	0.14
tblVehicleEF	MH	0.62	0.64
tblVehicleEF	MH	0.22	0.25
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.54	0.59
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.1590e-003	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.46	0.49
tblVehicleEF	MHD	0.65	0.81
tblVehicleEF	MHD	7.39	8.33
tblVehicleEF	MHD	157.54	155.75

tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.21	1.31
tblVehicleEF	MHD	2.37	2.82
tblVehicleEF	MHD	11.70	11.56
tblVehicleEF	MHD	4.7630e-003	5.6590e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003
tblVehicleEF	MHD	4.5570e-003	5.4140e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	1.7760e-003	2.0290e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	8.5500e-004	9.6300e-004
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.45	0.52
tblVehicleEF	MHD	1.5140e-003	1.4970e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9000e-004	7.3200e-004
tblVehicleEF	MHD	1.7760e-003	2.0290e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	8.5500e-004	9.6300e-004
tblVehicleEF	MHD	0.14	0.17

tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.49	0.56
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.2950e-003	0.01
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.34	0.36
tblVehicleEF	MHD	0.66	0.82
tblVehicleEF	MHD	6.91	7.82
tblVehicleEF	MHD	166.87	164.97
tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.25	1.36
tblVehicleEF	MHD	2.23	2.65
tblVehicleEF	MHD	11.65	11.50
tblVehicleEF	MHD	4.0150e-003	4.7700e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003
tblVehicleEF	MHD	3.8410e-003	4.5640e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	3.5610e-003	4.0950e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	2.0490e-003	2.3400e-003
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.03

tblVehicleEF	MHD	0.43	0.49
tblVehicleEF	MHD	1.6020e-003	1.5840e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8200e-004	7.2300e-004
tblVehicleEF	MHD	3.5610e-003	4.0950e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	2.0490e-003	2.3400e-003
tblVehicleEF	MHD	0.14	0.17
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.47	0.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.1710e-003	0.01
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	0.64	0.68
tblVehicleEF	MHD	0.65	0.81
tblVehicleEF	MHD	7.25	8.17
tblVehicleEF	MHD	144.65	143.00
tblVehicleEF	MHD	1,105.65	1,117.34
tblVehicleEF	MHD	56.04	58.54
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.16	1.26
tblVehicleEF	MHD	2.33	2.77
tblVehicleEF	MHD	11.68	11.54
tblVehicleEF	MHD	5.7950e-003	6.8860e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	1.0160e-003	1.2340e-003

tblVehicleEF	MHD	5.5440e-003	6.5880e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.3600e-004	1.1420e-003
tblVehicleEF	MHD	2.0110e-003	2.3270e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	8.5200e-004	9.6300e-004
tblVehicleEF	MHD	0.12	0.14
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.44	0.51
tblVehicleEF	MHD	1.3930e-003	1.3770e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8800e-004	7.2900e-004
tblVehicleEF	MHD	2.0110e-003	2.3270e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	8.5200e-004	9.6300e-004
tblVehicleEF	MHD	0.14	0.17
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.49	0.56
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.27	0.28
tblVehicleEF	OBUS	0.98	1.16
tblVehicleEF	OBUS	7.52	8.02
tblVehicleEF	OBUS	68.93	68.05

tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.39	0.40
tblVehicleEF	OBUS	1.49	1.62
tblVehicleEF	OBUS	2.08	2.13
tblVehicleEF	OBUS	2.1100e-004	2.3500e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004
tblVehicleEF	OBUS	2.0200e-004	2.2500e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	2.3600e-003	2.4380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.8000e-004	1.0000e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.46	0.50
tblVehicleEF	OBUS	6.7000e-004	6.6200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.6700e-004
tblVehicleEF	OBUS	2.3600e-003	2.4380e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	9.8000e-004	1.0000e-003
tblVehicleEF	OBUS	0.08	0.09

tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.51	0.54
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	0.27	0.27
tblVehicleEF	OBUS	1.00	1.19
tblVehicleEF	OBUS	6.90	7.35
tblVehicleEF	OBUS	71.97	71.04
tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.40	0.41
tblVehicleEF	OBUS	1.38	1.50
tblVehicleEF	OBUS	2.02	2.07
tblVehicleEF	OBUS	1.7800e-004	1.9800e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004
tblVehicleEF	OBUS	1.7000e-004	1.9000e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	4.6170e-003	4.7840e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	2.2950e-003	2.3650e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.44	0.47
tblVehicleEF	OBUS	6.9900e-004	6.9100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4200e-004	8.5600e-004
tblVehicleEF	OBUS	4.6170e-003	4.7840e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	2.2950e-003	2.3650e-003
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.51
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.98	1.16
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tblVehicleEF	OBUS	64.72	63.93
tblVehicleEF	OBUS	1,130.72	1,144.40
tblVehicleEF	OBUS	72.04	72.63
tblVehicleEF	OBUS	1.3260e-003	1.3150e-003
tblVehicleEF	OBUS	0.37	0.38
tblVehicleEF	OBUS	1.46	1.59
tblVehicleEF	OBUS	2.06	2.11
tblVehicleEF	OBUS	2.5700e-004	2.8600e-004
tblVehicleEF	OBUS	7.0340e-003	7.3470e-003
tblVehicleEF	OBUS	9.0200e-004	9.0300e-004

tblVehicleEF	OBUS	2.4600e-004	2.7400e-004
tblVehicleEF	OBUS	6.7100e-003	7.0100e-003
tblVehicleEF	OBUS	8.3000e-004	8.3200e-004
tblVehicleEF	OBUS	2.5780e-003	2.6910e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.9800e-004	1.0220e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.46	0.49
tblVehicleEF	OBUS	6.3000e-004	6.2300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5200e-004	8.6600e-004
tblVehicleEF	OBUS	2.5780e-003	2.6910e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	9.9800e-004	1.0220e-003
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.51	0.54
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.08	0.09
tblVehicleEF	SBUS	5.44	5.33
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	5.79	6.01
tblVehicleEF	SBUS	1,293.73	1,303.92

tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	13.93	14.65
tblVehicleEF	SBUS	5.98	6.41
tblVehicleEF	SBUS	15.64	15.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	3.7220e-003	4.2060e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.65	0.64
tblVehicleEF	SBUS	1.4310e-003	1.5370e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.30	0.31
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4100e-004	4.3500e-004
tblVehicleEF	SBUS	3.7220e-003	4.2060e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.93	0.91

tblVehicleEF	SBUS	1.4310e-003	1.5370e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.33	0.34
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	5.26	5.15
tblVehicleEF	SBUS	0.85	0.96
tblVehicleEF	SBUS	3.97	4.12
tblVehicleEF	SBUS	1,360.62	1,371.70
tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	14.38	15.11
tblVehicleEF	SBUS	5.60	6.01
tblVehicleEF	SBUS	15.61	15.81
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	7.1900e-003	8.1360e-003
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	0.65	0.64
tblVehicleEF	SBUS	3.2890e-003	3.5810e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.24	0.26
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.1000e-004	4.0300e-004
tblVehicleEF	SBUS	7.1900e-003	8.1360e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.93	0.91
tblVehicleEF	SBUS	3.2890e-003	3.5810e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.27	0.28
tblVehicleEF	SBUS	0.88	0.88
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.08	0.09
tblVehicleEF	SBUS	5.68	5.59
tblVehicleEF	SBUS	0.84	0.94
tblVehicleEF	SBUS	5.85	6.07
tblVehicleEF	SBUS	1,201.37	1,210.32
tblVehicleEF	SBUS	1,160.25	1,168.64
tblVehicleEF	SBUS	34.04	33.07
tblVehicleEF	SBUS	8.2300e-004	8.2900e-004
tblVehicleEF	SBUS	13.31	14.00
tblVehicleEF	SBUS	5.89	6.31

tblVehicleEF	SBUS	15.64	15.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	5.2400e-004	5.5300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.7780e-003	2.7860e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	4.8100e-004	5.0800e-004
tblVehicleEF	SBUS	4.1790e-003	4.8840e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.66	0.65
tblVehicleEF	SBUS	1.4520e-003	1.5860e-003
tblVehicleEF	SBUS	0.13	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.31	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.4200e-004	4.3600e-004
tblVehicleEF	SBUS	4.1790e-003	4.8840e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.94	0.92
tblVehicleEF	SBUS	1.4520e-003	1.5860e-003
tblVehicleEF	SBUS	0.16	0.17
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.33	0.35
tblVehicleEF	UBUS	2.18	2.30

tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	10.98	11.59
tblVehicleEF	UBUS	16.03	16.73
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.84	8.53
tblVehicleEF	UBUS	14.21	14.43
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	9.0440e-003	9.3450e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	4.3140e-003	4.4380e-003
tblVehicleEF	UBUS	0.78	0.84
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.26	1.29
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.6090e-003	1.6080e-003
tblVehicleEF	UBUS	9.0440e-003	9.3450e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	4.3140e-003	4.4380e-003
tblVehicleEF	UBUS	3.05	3.24
tblVehicleEF	UBUS	0.02	0.02

tblVehicleEF	UBUS	1.38	1.42
tblVehicleEF	UBUS	2.18	2.31
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	11.10	11.72
tblVehicleEF	UBUS	13.14	13.72
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.29	7.93
tblVehicleEF	UBUS	14.09	14.30
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.16	0.17
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.80	0.86
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.12	1.15
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.5590e-003	1.5560e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.16	0.17
tblVehicleEF	UBUS	0.01	0.01

tblVehicleEF	UBUS	3.07	3.26
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.23	1.26
tblVehicleEF	UBUS	2.18	2.30
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	10.99	11.59
tblVehicleEF	UBUS	15.49	16.18
tblVehicleEF	UBUS	1,898.46	1,917.06
tblVehicleEF	UBUS	131.84	130.48
tblVehicleEF	UBUS	1.7150e-003	1.7780e-003
tblVehicleEF	UBUS	7.69	8.37
tblVehicleEF	UBUS	14.19	14.41
tblVehicleEF	UBUS	0.53	0.54
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.3530e-003	1.3370e-003
tblVehicleEF	UBUS	0.23	0.23
tblVehicleEF	UBUS	0.09	0.10
tblVehicleEF	UBUS	1.2450e-003	1.2310e-003
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	4.5490e-003	4.6930e-003
tblVehicleEF	UBUS	0.79	0.84
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.24	1.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.6000e-003	1.5980e-003
tblVehicleEF	UBUS	0.01	0.01

tblVehicleEF	UBUS	0.17	0.17
tblVehicleEF	UBUS	4.5490e-003	4.6930e-003
tblVehicleEF	UBUS	3.05	3.24
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.39
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	40,545,062.50	0.00
tblWater	IndoorWaterUseRate	350,267,437.50	0.00

2.0 Emissions Summary

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	16.7967	166.4910	128.9741	0.3955	31.4656	6.7808	38.2465	14.1985	6.2394	20.4378	0.0000	40,182.4046	40,182.4046	4.9781	0.0000	40,253.5117
2019	86.8993	117.6941	139.3481	0.4352	24.4258	3.0452	27.4710	6.5651	2.9109	9.4759	0.0000	44,045.2637	44,045.2637	2.9275	0.0000	44,118.4508
Maximum	**86.8993**	**166.4910**	**139.3481**	**0.4352**	**31.4656**	**6.7808**	**38.2465**	**14.1985**	**6.2394**	**20.4378**	**0.0000**	**44,045.2637**	**44,045.2637**	**4.9781**	**0.0000**	**44,118.4508**

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	15.9388	109.9892	130.0742	0.3955	20.9943	3.2945	23.5182	5.7001	3.2256	8.9256	0.0000	40,182.4046	40,182.4046	4.9781	0.0000	40,253.5117
2019	86.1748	111.1623	140.9058	0.4352	24.4258	2.7439	27.1697	6.5651	2.6503	9.2153	0.0000	44,045.2637	44,045.2637	2.9275	0.0000	44,118.4508
Maximum	**86.1748**	**111.1623**	**140.9058**	**0.4352**	**24.4258**	**3.2945**	**27.1697**	**6.5651**	**3.2256**	**9.2153**	**0.0000**	**44,045.2637**	**44,045.2637**	**4.9781**	**0.0000**	**44,118.4508**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**1.53**	**22.18**	**-0.99**	**0.00**	**18.74**	**38.55**	**22.87**	**40.93**	**35.78**	**39.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
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
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**	**0.0000**	**0.4055**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
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
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**	**0.0000**	**0.4055**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2018	6/28/2018	5	20	
2	Grading	Grading	6/29/2018	8/30/2018	5	45	
3	Building Construction	Building Construction	8/31/2018	10/24/2019	5	300	
4	Architectural Coating	Architectural Coating	3/29/2019	10/24/2019	5	150	
5	Paving	Paving	10/25/2019	12/26/2019	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 270

Acres of Paving: 45.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,535,000; Non-Residential Outdoor: 845,000; Striped Parking Area: 117,899 (Architectural Coating – sqft)

OffRoad Equipment

Colony Commerce Center Construction Mitigated - 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	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	4	8.00	187	0.41
Grading	Off-Highway Trucks	2	8.00	189	0.50
Grading	Rubber Tired Dozers	4	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	2	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	3	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	455.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	18	45.00	0.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	1,535.00	599.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	307.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

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					4.9218	0.0000	4.9218	0.7452	0.0000	0.7452			0.0000			0.0000
Off-Road	4.1081	39.7648	23.4286	0.0407		2.1205	2.1205		1.9988	1.9988		4,016.7116	4,016.7116	0.9658		4,040.8557
Total	**4.1081**	**39.7648**	**23.4286**	**0.0407**	**4.9218**	**2.1205**	**7.0423**	**0.7452**	**1.9988**	**2.7440**		**4,016.7116**	**4,016.7116**	**0.9658**		**4,040.8557**

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	0.1621	6.4040	0.9138	0.0183	0.3982	0.0224	0.4205	0.1092	0.0214	0.1306		1,936.9163	1,936.9163	0.1062		1,939.5704
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	0.0979	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
Total	**0.2600**	**6.4713**	**1.7572**	**0.0201**	**0.5658**	**0.0235**	**0.5894**	**0.1536**	**0.0225**	**0.1761**		**2,118.0306**	**2,118.0306**	**0.1128**		**2,120.8515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9195	0.0000	1.9195	0.2906	0.0000	0.2906			0.0000			0.0000
Off-Road	1.8699	21.4519	25.0215	0.0407		1.1430	1.1430		1.1430	1.1430	0.0000	4,016.7116	4,016.7116	0.9658		4,040.8557
Total	**1.8699**	**21.4519**	**25.0215**	**0.0407**	**1.9195**	**1.1430**	**3.0624**	**0.2906**	**1.1430**	**1.4336**	**0.0000**	**4,016.7116**	**4,016.7116**	**0.9658**		**4,040.8557**

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	0.1621	6.4040	0.9138	0.0183	0.3982	0.0224	0.4205	0.1092	0.0214	0.1306		1,936.9163	1,936.9163	0.1062		1,939.5704
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	0.0979	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
Total	**0.2600**	**6.4713**	**1.7572**	**0.0201**	**0.5658**	**0.0235**	**0.5894**	**0.1536**	**0.0225**	**0.1761**		**2,118.0306**	**2,118.0306**	**0.1128**		**2,120.8515**

3.3 Grading - 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					30.4765	0.0000	30.4765	13.9318	0.0000	13.9318			0.0000			0.0000
Off-Road	13.5770	158.4698	76.6807	0.1541		6.7500	6.7500		6.2100	6.2100		15,509.8304	15,509.8304	4.8284		15,630.5409
Total	**13.5770**	**158.4698**	**76.6807**	**0.1541**	**30.4765**	**6.7500**	**37.2265**	**13.9318**	**6.2100**	**20.1418**		**15,509.8304**	**15,509.8304**	**4.8284**		**15,630.5409**

3.3 Grading - 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	0.1980	7.8193	1.1157	0.0223	0.4862	0.0273	0.5135	0.1333	0.0261	0.1594		2,364.9771	2,364.9771	0.1296		2,368.2178
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	0.2936	0.2019	2.5303	5.4600e-003	0.5030	3.4900e-003	0.5065	0.1334	3.2200e-003	0.1366		543.3429	543.3429	0.0200		543.8434
Total	**0.4915**	**8.0212**	**3.6461**	**0.0278**	**0.9892**	**0.0308**	**1.0200**	**0.2667**	**0.0293**	**0.2960**		**2,908.3200**	**2,908.3200**	**0.1497**		**2,912.0612**

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					11.8858	0.0000	11.8858	5.4334	0.0000	5.4334			0.0000			0.0000
Off-Road	4.8988	79.2271	82.1514	0.1541		3.2637	3.2637		3.1962	3.1962	0.0000	15,509.8304	15,509.8304	4.8284		15,630.5409
Total	**4.8988**	**79.2271**	**82.1514**	**0.1541**	**11.8858**	**3.2637**	**15.1495**	**5.4334**	**3.1962**	**8.6296**	**0.0000**	**15,509.8304**	**15,509.8304**	**4.8284**		**15,630.5409**

3.3 Grading - 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	0.1980	7.8193	1.1157	0.0223	0.4862	0.0273	0.5135	0.1333	0.0261	0.1594		2,364.9771	2,364.9771	0.1296		2,368.2178
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	0.2936	0.2019	2.5303	5.4600e-003	0.5030	3.4900e-003	0.5065	0.1334	3.2200e-003	0.1366		543.3429	543.3429	0.0200		543.8434
Total	**0.4915**	**8.0212**	**3.6461**	**0.0278**	**0.9892**	**0.0308**	**1.0200**	**0.2667**	**0.0293**	**0.2960**		**2,908.3200**	**2,908.3200**	**0.1497**		**2,912.0612**

3.4 Building Construction - 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	4.3685	37.8449	26.9000	0.0437		2.2774	2.2774		2.1553	2.1553		4,221.9111	4,221.9111	0.9667		4,246.0792
Total	**4.3685**	**37.8449**	**26.9000**	**0.0437**		**2.2774**	**2.2774**		**2.1553**	**2.1553**		**4,221.9111**	**4,221.9111**	**0.9667**		**4,246.0792**

3.4 Building Construction - 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	2.4138	73.4180	15.7620	0.1654	3.8366	0.5098	4.3465	1.1047	0.4877	1.5925		17,426.4638	17,426.4638	1.1947		17,456.3300
Worker	10.0144	6.8858	86.3121	0.1864	17.1577	0.1192	17.2769	4.5503	0.1098	4.6601		18,534.0298	18,534.0298	0.6829		18,551.1025
Total	**12.4282**	**80.3038**	**102.0741**	**0.3518**	**20.9943**	**0.6290**	**21.6233**	**5.6550**	**0.5976**	**6.2526**		**35,960.4936**	**35,960.4936**	**1.8776**		**36,007.4325**

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	3.5106	29.6855	28.0001	0.0437		1.8949	1.8949		1.8201	1.8201	0.0000	4,221.9111	4,221.9111	0.9667		4,246.0792
Total	**3.5106**	**29.6855**	**28.0001**	**0.0437**		**1.8949**	**1.8949**		**1.8201**	**1.8201**	**0.0000**	**4,221.9111**	**4,221.9111**	**0.9667**		**4,246.0792**

3.4 Building Construction - 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	2.4138	73.4180	15.7620	0.1654	3.8366	0.5098	4.3465	1.1047	0.4877	1.5925		17,426.4638	17,426.4638	1.1947		17,456.3300
Worker	10.0144	6.8858	86.3121	0.1864	17.1577	0.1192	17.2769	4.5503	0.1098	4.6601		18,534.0298	18,534.0298	0.6829		18,551.1025
Total	**12.4282**	**80.3038**	**102.0741**	**0.3518**	**20.9943**	**0.6290**	**21.6233**	**5.6550**	**0.5976**	**6.2526**		**35,960.4936**	**35,960.4936**	**1.8776**		**36,007.4325**

3.4 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	3.8447	34.1154	26.1372	0.0437		1.9604	1.9604		1.8556	1.8556		4,180.0326	4,180.0326	0.9453		4,203.6648
Total	**3.8447**	**34.1154**	**26.1372**	**0.0437**		**1.9604**	**1.9604**		**1.8556**	**1.8556**		**4,180.0326**	**4,180.0326**	**0.9453**		**4,203.6648**

3.4 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	2.1485	68.9732	14.0255	0.1637	3.8366	0.4314	4.2679	1.1047	0.4127	1.5174		17,254.0579	17,254.0579	1.1667		17,283.2250
Worker	9.1009	6.0534	76.5167	0.1800	17.1577	0.1154	17.2731	4.5503	0.1063	4.6566		17,904.4842	17,904.4842	0.6004		17,919.4930
Total	**11.2493**	**75.0266**	**90.5422**	**0.3437**	**20.9942**	**0.5468**	**21.5410**	**5.6550**	**0.5190**	**6.1739**		**35,158.5421**	**35,158.5421**	**1.7670**		**35,202.7180**

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	3.1202	27.5835	27.6949	0.0437		1.6590	1.6590		1.5950	1.5950	0.0000	4,180.0326	4,180.0326	0.9453		4,203.6648
Total	**3.1202**	**27.5835**	**27.6949**	**0.0437**		**1.6590**	**1.6590**		**1.5950**	**1.5950**	**0.0000**	**4,180.0326**	**4,180.0326**	**0.9453**		**4,203.6648**

3.4 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	2.1485	68.9732	14.0255	0.1637	3.8366	0.4314	4.2679	1.1047	0.4127	1.5174		17,254.0579	17,254.0579	1.1667		17,283.2250
Worker	9.1009	6.0534	76.5167	0.1800	17.1577	0.1154	17.2731	4.5503	0.1063	4.6566		17,904.4842	17,904.4842	0.6004		17,919.4930
Total	**11.2493**	**75.0266**	**90.5422**	**0.3437**	**20.9942**	**0.5468**	**21.5410**	**5.6550**	**0.5190**	**6.1739**		**35,158.5421**	**35,158.5421**	**1.7670**		**35,202.7180**

3.5 Architectural Coating - 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					
Archit. Coating	68.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0658	7.3415	7.3653	0.0119		0.5151	0.5151		0.5151	0.5151		1,125.7922	1,125.7922	0.0951		1,128.1694
Total	**69.9851**	**7.3415**	**7.3653**	**0.0119**		**0.5151**	**0.5151**		**0.5151**	**0.5151**		**1,125.7922**	**1,125.7922**	**0.0951**		**1,128.1694**

3.5 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.8202	1.2107	15.3033	0.0360	3.4315	0.0231	3.4546	0.9101	0.0213	0.9313		3,580.8968	3,580.8968	0.1201		3,583.8986
Total	**1.8202**	**1.2107**	**15.3033**	**0.0360**	**3.4315**	**0.0231**	**3.4546**	**0.9101**	**0.0213**	**0.9313**		**3,580.8968**	**3,580.8968**	**0.1201**		**3,583.8986**

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	68.9193					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0658	7.3415	7.3653	0.0119		0.5151	0.5151		0.5151	0.5151	0.0000	1,125.7922	1,125.7922	0.0951		1,128.1694
Total	**69.9851**	**7.3415**	**7.3653**	**0.0119**		**0.5151**	**0.5151**		**0.5151**	**0.5151**	**0.0000**	**1,125.7922**	**1,125.7922**	**0.0951**		**1,128.1694**

3.5 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.8202	1.2107	15.3033	0.0360	3.4315	0.0231	3.4546	0.9101	0.0213	0.9313		3,580.8968	3,580.8968	0.1201		3,583.8986
Total	**1.8202**	**1.2107**	**15.3033**	**0.0360**	**3.4315**	**0.0231**	**3.4546**	**0.9101**	**0.0213**	**0.9313**		**3,580.8968**	**3,580.8968**	**0.1201**		**3,583.8986**

3.6 Paving - 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	2.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0808**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.6 Paving - 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	0.0000	0.0000	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	0.0889	0.0592	0.7477	1.7600e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		174.9624	174.9624	5.8700e-003		175.1091
Total	**0.0889**	**0.0592**	**0.7477**	**1.7600e-003**	**0.1677**	**1.1300e-003**	**0.1688**	**0.0445**	**1.0400e-003**	**0.0455**		**174.9624**	**174.9624**	**5.8700e-003**		**175.1091**

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	2.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.0808**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.6 Paving - 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	0.0000	0.0000	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	0.0889	0.0592	0.7477	1.7600e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		174.9624	174.9624	5.8700e-003		175.1091
Total	**0.0889**	**0.0592**	**0.7477**	**1.7600e-003**	**0.1677**	**1.1300e-003**	**0.1688**	**0.0445**	**1.0400e-003**	**0.0455**		**174.9624**	**174.9624**	**5.8700e-003**		**175.1091**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Parking Lot	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Unrefrigerated Warehouse-No Rail	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Parking Lot	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163

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

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					
Manufacturing	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
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Manufacturing	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
Parking Lot	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Unmitigated	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**		**0.4055**

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	0.0170	1.6600e-003	0.1789	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		0.3797	0.3797	1.0300e-003		0.4055
Total	**0.0170**	**1.6600e-003**	**0.1789**	**1.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**		**0.3797**	**0.3797**	**1.0300e-003**		**0.4055**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce High Cube (Trucks)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	998.68	1000sqft	49.65	998,680.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce High Cube (Trucks) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Lot acreage based on Site Plan.

Construction Phase - Operations only.

Off-road Equipment -

Off-road Equipment - Operations only.

Trips and VMT - Operations only.

Architectural Coating - Operations only.

Vehicle Trips - Passenger cars only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Solid Waste -

Fleet Mix - Passenger car run only.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper (2014) and the Port of Long Beach Air Emissions Inventory (2013)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	499,340.00	1,081,375.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,498,020.00	3,244,125.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	499340	1081375
tblAreaCoating	Area_Nonresidential_Interior	1498020	3244125
tblConstructionPhase	NumDays	55.00	1.00
tblFleetMix	HHD	0.06	0.63
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.16
tblFleetMix	LHD2	5.6710e-003	0.00

tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	LotAcreage	22.93	49.65
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.37
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	84.00	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	50.00
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	0.44
tblVehicleTrips	SU_TR	1.68	0.44

tblVehicleTrips	WD_TR	1.68	0.44
tblWater	IndoorWaterUseRate	230,944,750.00	48,867,010.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	25.2764	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	5.8451	177.9340	41.1597	0.6378	19.5896	1.4314	21.0210	5.5067	1.3692	6.8759		67,281.5378	67,281.5378	2.1832		67,336.1187
Offroad	0.9550	12.2712	4.7585	0.0190		0.3977	0.3977		0.3658	0.3658		1,877.3173	1,877.3173	0.5940		1,892.1664
Total	**32.1370**	**190.7560**	**46.4831**	**0.6601**	**19.5896**	**1.8712**	**21.4609**	**5.5067**	**1.7772**	**7.2839**		**69,818.9589**	**69,818.9589**	**2.7904**	**0.0121**	**69,892.3251**

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	25.2764	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	5.8451	177.9340	41.1597	0.6378	19.5896	1.4314	21.0210	5.5067	1.3692	6.8759		67,281.5378	67,281.5378	2.1832		67,336.1187
Offroad	0.9550	12.2712	4.7585	0.0190		0.3977	0.3977		0.3658	0.3658		1,877.3173	1,877.3173	0.5940		1,892.1664
Total	**32.1370**	**190.7560**	**46.4831**	**0.6601**	**19.5896**	**1.8712**	**21.4609**	**5.5067**	**1.7772**	**7.2839**		**69,818.9589**	**69,818.9589**	**2.7904**	**0.0121**	**69,892.3251**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 3,244,125; Non-Residential Outdoor: 1,081,375; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

3.2 Architectural Coating - 2017

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

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

3.2 Architectural Coating - 2017

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.8451	177.9340	41.1597	0.6378	19.5896	1.4314	21.0210	5.5067	1.3692	6.8759		67,281.5378	67,281.5378	2.1832		67,336.1187
Unmitigated	5.8451	177.9340	41.1597	0.6378	19.5896	1.4314	21.0210	5.5067	1.3692	6.8759		67,281.5378	67,281.5378	2.1832		67,336.1187

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	439.42	439.42	439.42	7,997,429	7,997,429
Total	439.42	439.42	439.42	7,997,429	7,997,429

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	50.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.160000	0.000000	0.210000	0.630000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
NaturalGas Unmitigated	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066

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	5609.02	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

5.2 Energy by Land Use - NaturalGas

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	5.60902	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	25.2764	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Unmitigated	25.2764	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334

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	5.4928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**25.2764**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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	5.4928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**25.2764**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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
Tractors/Loaders/Backhoes	6	4.00	365	200	0.37	CNG

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					
Tractors/Loaders/Backhoes	0.9550	12.2712	4.7585	0.0190		0.3977	0.3977		0.3658	0.3658		1,877.3173	1,877.3173	0.5940		1,892.1664
Total	**0.9550**	**12.2712**	**4.7585**	**0.0190**		**0.3977**	**0.3977**		**0.3658**	**0.3658**		**1,877.3173**	**1,877.3173**	**0.5940**		**1,892.1664**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce High Cube (PC)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	998.68	1000sqft	49.65	998,680.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce High Cube (PC) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Lot acreage based on Site Plan.

Construction Phase - Operations only.

Off-road Equipment -

Off-road Equipment - Operations only.

Trips and VMT - Operations only.

Architectural Coating - Operations only.

Vehicle Trips - Passenger cars only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Passenger car run only.

Area Coating -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	499,340.00	1,081,375.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,498,020.00	3,244,125.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstructionPhase	NumDays	55.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.54	1.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00

tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	LotAcreage	22.93	49.65
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	84.00	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_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	0.96
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.96
tblWater	IndoorWaterUseRate	230,944,750.00	48,867,010.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	1.3712	2.5205	27.3848	0.0987	12.1286	0.0665	12.1951	3.2152	0.0613	3.2765		9,845.1310	9,845.1310	0.2166		9,850.5450
Total	**23.7517**	**3.0713**	**27.9497**	**0.1020**	**12.1286**	**0.1087**	**12.2372**	**3.2152**	**0.1035**	**3.3186**		**10,505.2348**	**10,505.2348**	**0.2298**	**0.0121**	**10,514.5850**

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	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	1.3712	2.5205	27.3848	0.0987	12.1286	0.0665	12.1951	3.2152	0.0613	3.2765		9,845.1310	9,845.1310	0.2166		9,850.5450
Total	**23.7517**	**3.0713**	**27.9497**	**0.1020**	**12.1286**	**0.1087**	**12.2372**	**3.2152**	**0.1035**	**3.3186**		**10,505.2348**	**10,505.2348**	**0.2298**	**0.0121**	**10,514.5850**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 3,244,125; Non-Residential Outdoor: 1,081,375; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3712	2.5205	27.3848	0.0987	12.1286	0.0665	12.1951	3.2152	0.0613	3.2765		9,845.1310	9,845.1310	0.2166		9,850.5450
Unmitigated	1.3712	2.5205	27.3848	0.0987	12.1286	0.0665	12.1951	3.2152	0.0613	3.2765		9,845.1310	9,845.1310	0.2166		9,850.5450

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	961.73	961.73	961.73	5,811,150	5,811,150
Total	961.73	961.73	961.73	5,811,150	5,811,150

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	16.60	0.00	0.00	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
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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
NaturalGas Unmitigated	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066

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	5609.02	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

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	5.60902	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Unmitigated	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334

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	2.5364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**22.3200**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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	2.5364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**22.3200**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce High Cube (PC)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	998.68	1000sqft	49.65	998,680.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce High Cube (PC) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Lot acreage based on Site Plan.

Construction Phase - Operations only.

Off-road Equipment -

Off-road Equipment - Operations only.

Trips and VMT - Operations only.

Architectural Coating - Operations only.

Vehicle Trips - Passenger cars only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Passenger car run only.

Area Coating -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	499,340.00	1,081,375.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,498,020.00	3,244,125.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstructionPhase	NumDays	55.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.54	1.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00

tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	LotAcreage	22.93	49.65
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	84.00	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_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	0.96
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.96
tblWater	IndoorWaterUseRate	230,944,750.00	48,867,010.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	1.6757	2.4142	33.9662	0.1104	12.1286	0.0665	12.1951	3.2152	0.0613	3.2765		11,004.5896	11,004.5896	0.2484		11,010.8004
Total	**24.0561**	**2.9651**	**34.5311**	**0.1137**	**12.1286**	**0.1087**	**12.2372**	**3.2152**	**0.1035**	**3.3186**		**11,664.6934**	**11,664.6934**	**0.2617**	**0.0121**	**11,674.8404**

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	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	1.6757	2.4142	33.9662	0.1104	12.1286	0.0665	12.1951	3.2152	0.0613	3.2765		11,004.5896	11,004.5896	0.2484		11,010.8004
Total	**24.0561**	**2.9651**	**34.5311**	**0.1137**	**12.1286**	**0.1087**	**12.2372**	**3.2152**	**0.1035**	**3.3186**		**11,664.6934**	**11,664.6934**	**0.2617**	**0.0121**	**11,674.8404**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 3,244,125; Non-Residential Outdoor: 1,081,375; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6757	2.4142	33.9662	0.1104	12.1286	0.0665	12.1951	3.2152	0.0613	3.2765		11,004.5896	11,004.5896	0.2484		11,010.8004
Unmitigated	1.6757	2.4142	33.9662	0.1104	12.1286	0.0665	12.1951	3.2152	0.0613	3.2765		11,004.5896	11,004.5896	0.2484		11,010.8004

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	961.73	961.73	961.73	5,811,150	5,811,150
Total	961.73	961.73	961.73	5,811,150	5,811,150

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	16.60	0.00	0.00	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
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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
NaturalGas Unmitigated	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066

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	5609.02	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

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	5.60902	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Unmitigated	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334

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	2.5364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**22.3200**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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	2.5364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**22.3200**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce High Cube (Trucks)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	998.68	1000sqft	49.65	998,680.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce High Cube (Trucks) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Lot acreage based on Site Plan.

Construction Phase - Operations only.

Off-road Equipment -

Off-road Equipment - Operations only.

Trips and VMT - Operations only.

Architectural Coating - Operations only.

Vehicle Trips - Passenger cars only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Solid Waste -

Fleet Mix - Passenger car run only.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper (2014) and the Port of Long Beach Air Emissions Inventory (2013)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	499,340.00	1,081,375.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,498,020.00	3,244,125.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	499340	1081375
tblAreaCoating	Area_Nonresidential_Interior	1498020	3244125
tblConstructionPhase	NumDays	55.00	1.00
tblFleetMix	HHD	0.06	0.63
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.16
tblFleetMix	LHD2	5.6710e-003	0.00

tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	LotAcreage	22.93	49.65
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.37
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	84.00	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	50.00
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	0.44
tblVehicleTrips	SU_TR	1.68	0.44

tblVehicleTrips	WD_TR	1.68	0.44
tblWater	IndoorWaterUseRate	230,944,750.00	48,867,010.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	25.2764	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	5.9247	183.1992	42.5078	0.6321	19.5896	1.4360	21.0256	5.5067	1.3736	6.8803		66,676.0827	66,676.0827	2.2878		66,733.2781
Offroad	0.9550	12.2712	4.7585	0.0190		0.3977	0.3977		0.3658	0.3658		1,877.3173	1,877.3173	0.5940		1,892.1664
Total	**32.2166**	**196.0213**	**47.8311**	**0.6544**	**19.5896**	**1.8758**	**21.4654**	**5.5067**	**1.7816**	**7.2883**		**69,213.5038**	**69,213.5038**	**2.8950**	**0.0121**	**69,289.4845**

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	25.2764	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	5.9247	183.1992	42.5078	0.6321	19.5896	1.4360	21.0256	5.5067	1.3736	6.8803		66,676.0827	66,676.0827	2.2878		66,733.2781
Offroad	0.9550	12.2712	4.7585	0.0190		0.3977	0.3977		0.3658	0.3658		1,877.3173	1,877.3173	0.5940		1,892.1664
Total	**32.2166**	**196.0213**	**47.8311**	**0.6544**	**19.5896**	**1.8758**	**21.4654**	**5.5067**	**1.7816**	**7.2883**		**69,213.5038**	**69,213.5038**	**2.8950**	**0.0121**	**69,289.4845**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 3,244,125; Non-Residential Outdoor: 1,081,375; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

3.2 Architectural Coating - 2017

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

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

3.2 Architectural Coating - 2017

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.9247	183.1992	42.5078	0.6321	19.5896	1.4360	21.0256	5.5067	1.3736	6.8803		66,676.0827	66,676.0827	2.2878		66,733.2781
Unmitigated	5.9247	183.1992	42.5078	0.6321	19.5896	1.4360	21.0256	5.5067	1.3736	6.8803		66,676.0827	66,676.0827	2.2878		66,733.2781

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	439.42	439.42	439.42	7,997,429	7,997,429
Total	439.42	439.42	439.42	7,997,429	7,997,429

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	50.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.160000	0.000000	0.210000	0.630000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
NaturalGas Unmitigated	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066

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	5609.02	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

5.2 Energy by Land Use - NaturalGas

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	5.60902	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	25.2764	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Unmitigated	25.2764	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334

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	5.4928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**25.2764**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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	5.4928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**25.2764**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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
Tractors/Loaders/Backhoes	6	4.00	365	200	0.37	CNG

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					
Tractors/Loaders/Backhoes	0.9550	12.2712	4.7585	0.0190		0.3977	0.3977		0.3658	0.3658		1,877.3173	1,877.3173	0.5940		1,892.1664
Total	**0.9550**	**12.2712**	**4.7585**	**0.0190**		**0.3977**	**0.3977**		**0.3658**	**0.3658**		**1,877.3173**	**1,877.3173**	**0.5940**		**1,892.1664**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Manufacturing (PC)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	8.57	175,330.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics -

Land Use - Lot acreage absed on Site Plan.

Construction Phase - Operations run only.

Off-road Equipment -

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Passenger car run only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Passenger car run only.

Area Coating -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	87,665.00	186,545.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	262,995.00	559,635.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	87665	186545
tblAreaCoating	Area_Nonresidential_Interior	262995	559635
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.54	1.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00

tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	LotAcreage	4.03	8.57
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblSolidWaste	SolidWasteGenerationRate	217.41	462.63
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	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	1.49	3.09
tblVehicleTrips	SU_TR	0.62	3.09
tblVehicleTrips	WD_TR	3.82	3.09
tblWater	IndoorWaterUseRate	40,545,062.50	8,429,928.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	0.9439	1.3600	19.1341	0.0622	6.8324	0.0375	6.8698	1.8112	0.0345	1.8457		6,199.2039	6,199.2039	0.1400		6,202.7027
Total	**5.5334**	**2.8935**	**20.4402**	**0.0714**	**6.8324**	**0.1541**	**6.9864**	**1.8112**	**0.1511**	**1.9623**		**8,039.2890**	**8,039.2890**	**0.1753**	**0.0337**	**8,053.7248**

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	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	0.9439	1.3600	19.1341	0.0622	6.8324	0.0375	6.8698	1.8112	0.0345	1.8457		6,199.2039	6,199.2039	0.1400		6,202.7027
Total	**5.5334**	**2.8935**	**20.4402**	**0.0714**	**6.8324**	**0.1541**	**6.9864**	**1.8112**	**0.1511**	**1.9623**		**8,039.2890**	**8,039.2890**	**0.1753**	**0.0337**	**8,053.7248**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 559,635; Non-Residential Outdoor: 186,545; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9439	1.3600	19.1341	0.0622	6.8324	0.0375	6.8698	1.8112	0.0345	1.8457		6,199.2039	6,199.2039	0.1400		6,202.7027
Unmitigated	0.9439	1.3600	19.1341	0.0622	6.8324	0.0375	6.8698	1.8112	0.0345	1.8457		6,199.2039	6,199.2039	0.1400		6,202.7027

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	541.77	541.77	541.77	3,273,589	3,273,589
Total	541.77	541.77	541.77	3,273,589	3,273,589

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	16.60	0.00	0.00	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
Manufacturing	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
NaturalGas Unmitigated	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812

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					
Manufacturing	15640.4	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

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					
Manufacturing	15.6404	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Unmitigated	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410

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	0.9476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**4.4208**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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	0.9476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**4.4208**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Manufacturing (Trucks)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	8.57	175,330.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics -

Land Use - Lot acreage based on SIte Plan.

Construction Phase - Operations run only.

Off-road Equipment -

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Truck run only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Truck run only.

Colony Commerce Manufacturing (Trucks) - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	87,665.00	186,545.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	262,995.00	559,635.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	87665	186545
tblAreaCoating	Area_Nonresidential_Interior	262995	559635
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.07	0.44
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.37
tblFleetMix	LHD2	5.5610e-003	0.00
tblFleetMix	MCY	4.6770e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.2110e-003	0.00
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3450e-003	0.00
tblFleetMix	SBUS	9.7400e-004	0.00
tblFleetMix	UBUS	1.2470e-003	0.00
tblLandUse	LotAcreage	4.03	8.57
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblSolidWaste	SolidWasteGenerationRate	217.41	462.63
tblTripsAndVMT	WorkerTripNumber	15.00	0.00

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	50.00
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	1.49	0.84
tblVehicleTrips	SU_TR	0.62	0.84
tblVehicleTrips	WD_TR	3.82	0.84
tblWater	IndoorWaterUseRate	40,545,062.50	8,429,928.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	1.6953	54.1925	13.7180	0.1754	6.4926	0.4937	6.9863	1.8288	0.4722	2.3010		18,400.4208	18,400.4208	0.6068		18,415.5912
Total	**6.2848**	**55.7261**	**15.0241**	**0.1846**	**6.4926**	**0.6103**	**7.1029**	**1.8288**	**0.5888**	**2.4176**		**20,240.5058**	**20,240.5058**	**0.6422**	**0.0337**	**20,266.6133**

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	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	1.6953	54.1925	13.7180	0.1754	6.4926	0.4937	6.9863	1.8288	0.4722	2.3010		18,400.4208	18,400.4208	0.6068		18,415.5912
Total	**6.2848**	**55.7261**	**15.0241**	**0.1846**	**6.4926**	**0.6103**	**7.1029**	**1.8288**	**0.5888**	**2.4176**		**20,240.5058**	**20,240.5058**	**0.6422**	**0.0337**	**20,266.6133**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 559,635; Non-Residential Outdoor: 186,545; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6953	54.1925	13.7180	0.1754	6.4926	0.4937	6.9863	1.8288	0.4722	2.3010		18,400.4208	18,400.4208	0.6068		18,415.5912
Unmitigated	1.6953	54.1925	13.7180	0.1754	6.4926	0.4937	6.9863	1.8288	0.4722	2.3010		18,400.4208	18,400.4208	0.6068		18,415.5912

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	147.28	147.28	147.28	2,680,445	2,680,445
Total	147.28	147.28	147.28	2,680,445	2,680,445

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	50.00	0.00	0.00	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
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.370000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
NaturalGas Unmitigated	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812

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					
Manufacturing	15640.4	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

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					
Manufacturing	15.6404	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Unmitigated	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410

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	0.9476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**4.4208**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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	0.9476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**4.4208**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Manufacturing (Trucks)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	8.57	175,330.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics -

Land Use - Lot acreage based on SIte Plan.

Construction Phase - Operations run only.

Off-road Equipment -

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Truck run only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Truck run only.

Colony Commerce Manufacturing (Trucks) - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	87,665.00	186,545.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	262,995.00	559,635.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	87665	186545
tblAreaCoating	Area_Nonresidential_Interior	262995	559635
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.07	0.44
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.37
tblFleetMix	LHD2	5.5610e-003	0.00
tblFleetMix	MCY	4.6770e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.2110e-003	0.00
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3450e-003	0.00
tblFleetMix	SBUS	9.7400e-004	0.00
tblFleetMix	UBUS	1.2470e-003	0.00
tblLandUse	LotAcreage	4.03	8.57
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblSolidWaste	SolidWasteGenerationRate	217.41	462.63
tblTripsAndVMT	WorkerTripNumber	15.00	0.00

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	50.00
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	1.49	0.84
tblVehicleTrips	SU_TR	0.62	0.84
tblVehicleTrips	WD_TR	3.82	0.84
tblWater	IndoorWaterUseRate	40,545,062.50	8,429,928.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	1.6786	52.2349	13.4629	0.1767	6.4926	0.4925	6.9851	1.8288	0.4711	2.2999		18,532.8564	18,532.8564	0.5774		18,547.2910
Total	**6.2681**	**53.7684**	**14.7690**	**0.1859**	**6.4926**	**0.6091**	**7.1017**	**1.8288**	**0.5877**	**2.4165**		**20,372.9415**	**20,372.9415**	**0.6128**	**0.0337**	**20,398.3131**

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	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	1.6786	52.2349	13.4629	0.1767	6.4926	0.4925	6.9851	1.8288	0.4711	2.2999		18,532.8564	18,532.8564	0.5774		18,547.2910
Total	**6.2681**	**53.7684**	**14.7690**	**0.1859**	**6.4926**	**0.6091**	**7.1017**	**1.8288**	**0.5877**	**2.4165**		**20,372.9415**	**20,372.9415**	**0.6128**	**0.0337**	**20,398.3131**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 559,635; Non-Residential Outdoor: 186,545; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6786	52.2349	13.4629	0.1767	6.4926	0.4925	6.9851	1.8288	0.4711	2.2999		18,532.8564	18,532.8564	0.5774		18,547.2910
Unmitigated	1.6786	52.2349	13.4629	0.1767	6.4926	0.4925	6.9851	1.8288	0.4711	2.2999		18,532.8564	18,532.8564	0.5774		18,547.2910

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	147.28	147.28	147.28	2,680,445	2,680,445
Total	147.28	147.28	147.28	2,680,445	2,680,445

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	50.00	0.00	0.00	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
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.370000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
NaturalGas Unmitigated	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812

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					
Manufacturing	15640.4	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

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					
Manufacturing	15.6404	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Unmitigated	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410

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	0.9476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**4.4208**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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	0.9476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**4.4208**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Manufacturing (PC)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	8.57	175,330.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics -

Land Use - Lot acreage absed on Site Plan.

Construction Phase - Operations run only.

Off-road Equipment -

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Passenger car run only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Passenger car run only.

Area Coating -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	87,665.00	186,545.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	262,995.00	559,635.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	87665	186545
tblAreaCoating	Area_Nonresidential_Interior	262995	559635
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.54	1.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00

tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	LotAcreage	4.03	8.57
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblSolidWaste	SolidWasteGenerationRate	217.41	462.63
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	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	1.49	3.09
tblVehicleTrips	SU_TR	0.62	3.09
tblVehicleTrips	WD_TR	3.82	3.09
tblWater	IndoorWaterUseRate	40,545,062.50	8,429,928.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	0.7724	1.4198	15.4266	0.0556	6.8324	0.0375	6.8698	1.8112	0.0345	1.8457		5,546.0473	5,546.0473	0.1220		5,549.0972
Total	**5.3619**	**2.9534**	**16.7328**	**0.0648**	**6.8324**	**0.1541**	**6.9864**	**1.8112**	**0.1511**	**1.9623**		**7,386.1324**	**7,386.1324**	**0.1574**	**0.0337**	**7,400.1193**

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	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	0.7724	1.4198	15.4266	0.0556	6.8324	0.0375	6.8698	1.8112	0.0345	1.8457		5,546.0473	5,546.0473	0.1220		5,549.0972
Total	**5.3619**	**2.9534**	**16.7328**	**0.0648**	**6.8324**	**0.1541**	**6.9864**	**1.8112**	**0.1511**	**1.9623**		**7,386.1324**	**7,386.1324**	**0.1574**	**0.0337**	**7,400.1193**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 559,635; Non-Residential Outdoor: 186,545; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7724	1.4198	15.4266	0.0556	6.8324	0.0375	6.8698	1.8112	0.0345	1.8457		5,546.0473	5,546.0473	0.1220		5,549.0972
Unmitigated	0.7724	1.4198	15.4266	0.0556	6.8324	0.0375	6.8698	1.8112	0.0345	1.8457		5,546.0473	5,546.0473	0.1220		5,549.0972

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	541.77	541.77	541.77	3,273,589	3,273,589
Total	541.77	541.77	541.77	3,273,589	3,273,589

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	16.60	0.00	0.00	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
Manufacturing	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
NaturalGas Unmitigated	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812

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					
Manufacturing	15640.4	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

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					
Manufacturing	15.6404	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Unmitigated	4.4208	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410

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	0.9476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**4.4208**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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	0.9476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**4.4208**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Warehouse (Trucks)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	525.99	1000sqft	25.70	525,991.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce Warehouse (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.

Architectural Coating - Operations run only.

Vehicle Trips - Trucks only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Truck run only.

Area Coating -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblFleetMix	HHD	0.06	0.51
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.26
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3260e-003	0.00

tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	BuildingSpaceSquareFeet	525,990.00	525,991.00
tblLandUse	LandUseSquareFeet	525,990.00	525,991.00
tblLandUse	LotAcreage	12.08	25.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	44.00	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	50.00
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	0.34
tblVehicleTrips	SU_TR	1.68	0.34
tblVehicleTrips	WD_TR	1.68	0.34
tblWater	IndoorWaterUseRate	121,635,187.50	25,289,785.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	2.3915	68.1038	18.3519	0.2400	8.0176	0.5997	8.6173	2.2642	0.5736	2.8377		25,238.6806	25,238.6806	0.7800		25,258.1802
Total	**14.1790**	**68.3940**	**18.6494**	**0.2417**	**8.0176**	**0.6219**	**8.6395**	**2.2642**	**0.5958**	**2.8599**		**25,586.3482**	**25,586.3482**	**0.7870**	**6.3700e-003**	**25,607.9209**

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	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	2.3915	68.1038	18.3519	0.2400	8.0176	0.5997	8.6173	2.2642	0.5736	2.8377		25,238.6806	25,238.6806	0.7800		25,258.1802
Total	**14.1790**	**68.3940**	**18.6494**	**0.2417**	**8.0176**	**0.6219**	**8.6395**	**2.2642**	**0.5958**	**2.8599**		**25,586.3482**	**25,586.3482**	**0.7870**	**6.3700e-003**	**25,607.9209**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 788,987; Non-Residential Outdoor: 262,996; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3915	68.1038	18.3519	0.2400	8.0176	0.5997	8.6173	2.2642	0.5736	2.8377		25,238.6806	25,238.6806	0.7800		25,258.1802
Unmitigated	2.3915	68.1038	18.3519	0.2400	8.0176	0.5997	8.6173	2.2642	0.5736	2.8377		25,238.6806	25,238.6806	0.7800		25,258.1802

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	179.89	179.89	179.89	3,273,972	3,273,972
Total	179.89	179.89	179.89	3,273,972	3,273,972

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	50.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.260000	0.000000	0.230000	0.510000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
NaturalGas Unmitigated	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178

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	2954.2	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

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	2.9542	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Unmitigated	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229

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	1.3359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**11.7556**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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	1.3359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**11.7556**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Warehouse (PC)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	525.99	1000sqft	25.70	525,991.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce Warehouse (PC) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Lot acreage is based on Site Plan.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Passenger cars only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Passenger car run only.

Area Coating -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	262,996.00	559,635.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	788,987.00	1,678,905.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	262996	559635
tblAreaCoating	Area_Nonresidential_Interior	788987	1678905
tblConstructionPhase	NumDays	35.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.54	1.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00

tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	BuildingSpaceSquareFeet	525,990.00	525,991.00
tblLandUse	LandUseSquareFeet	525,990.00	525,991.00
tblLandUse	LotAcreage	12.08	25.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblSolidWaste	SolidWasteGenerationRate	494.43	1,052.11
tblTripsAndVMT	WorkerTripNumber	44.00	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_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	1.40
tblVehicleTrips	SU_TR	1.68	1.40
tblVehicleTrips	WD_TR	1.68	1.40
tblWater	IndoorWaterUseRate	121,635,187.50	25,289,785.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	13.2624	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	1.0477	1.9258	20.9233	0.0754	9.2668	0.0508	9.3176	2.4565	0.0468	2.5034		7,522.1632	7,522.1632	0.1655		7,526.2998
Total	**14.3419**	**2.2159**	**21.2208**	**0.0771**	**9.2668**	**0.0730**	**9.3398**	**2.4565**	**0.0690**	**2.5256**		**7,869.8308**	**7,869.8308**	**0.1724**	**6.3700e-003**	**7,876.0405**

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	13.2624	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	1.0477	1.9258	20.9233	0.0754	9.2668	0.0508	9.3176	2.4565	0.0468	2.5034		7,522.1632	7,522.1632	0.1655		7,526.2998
Total	**14.3419**	**2.2159**	**21.2208**	**0.0771**	**9.2668**	**0.0730**	**9.3398**	**2.4565**	**0.0690**	**2.5256**		**7,869.8308**	**7,869.8308**	**0.1724**	**6.3700e-003**	**7,876.0405**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 1,678,905; Non-Residential Outdoor: 559,635; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0477	1.9258	20.9233	0.0754	9.2668	0.0508	9.3176	2.4565	0.0468	2.5034		7,522.1632	7,522.1632	0.1655		7,526.2998
Unmitigated	1.0477	1.9258	20.9233	0.0754	9.2668	0.0508	9.3176	2.4565	0.0468	2.5034		7,522.1632	7,522.1632	0.1655		7,526.2998

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	734.81	734.81	734.81	4,440,004	4,440,004
Total	734.81	734.81	734.81	4,440,004	4,440,004

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	16.60	0.00	0.00	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
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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
NaturalGas Unmitigated	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178

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	2954.2	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

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	2.9542	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.2624	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Unmitigated	13.2624	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229

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	2.8426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**13.2624**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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	2.8426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**13.2624**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Warehouse (PC)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	525.99	1000sqft	25.70	525,991.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics -

Land Use - Lot acreage is based on Site Plan.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Passenger cars only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Passenger car run only.

Area Coating -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	262,996.00	559,635.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	788,987.00	1,678,905.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	262996	559635
tblAreaCoating	Area_Nonresidential_Interior	788987	1678905
tblConstructionPhase	NumDays	35.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.54	1.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00

tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	BuildingSpaceSquareFeet	525,990.00	525,991.00
tblLandUse	LandUseSquareFeet	525,990.00	525,991.00
tblLandUse	LotAcreage	12.08	25.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblSolidWaste	SolidWasteGenerationRate	494.43	1,052.11
tblTripsAndVMT	WorkerTripNumber	44.00	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_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	1.40
tblVehicleTrips	SU_TR	1.68	1.40
tblVehicleTrips	WD_TR	1.68	1.40
tblWater	IndoorWaterUseRate	121,635,187.50	25,289,785.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	13.2624	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	1.2803	1.8446	25.9518	0.0843	9.2668	0.0508	9.3176	2.4565	0.0468	2.5034		8,408.0465	8,408.0465	0.1898		8,412.7919
Total	**14.5745**	**2.1347**	**26.2493**	**0.0861**	**9.2668**	**0.0730**	**9.3398**	**2.4565**	**0.0690**	**2.5256**		**8,755.7141**	**8,755.7141**	**0.1968**	**6.3700e-003**	**8,762.5326**

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	13.2624	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	1.2803	1.8446	25.9518	0.0843	9.2668	0.0508	9.3176	2.4565	0.0468	2.5034		8,408.0465	8,408.0465	0.1898		8,412.7919
Total	**14.5745**	**2.1347**	**26.2493**	**0.0861**	**9.2668**	**0.0730**	**9.3398**	**2.4565**	**0.0690**	**2.5256**		**8,755.7141**	**8,755.7141**	**0.1968**	**6.3700e-003**	**8,762.5326**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 1,678,905; Non-Residential Outdoor: 559,635; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2803	1.8446	25.9518	0.0843	9.2668	0.0508	9.3176	2.4565	0.0468	2.5034		8,408.0465	8,408.0465	0.1898		8,412.7919
Unmitigated	1.2803	1.8446	25.9518	0.0843	9.2668	0.0508	9.3176	2.4565	0.0468	2.5034		8,408.0465	8,408.0465	0.1898		8,412.7919

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	734.81	734.81	734.81	4,440,004	4,440,004
Total	734.81	734.81	734.81	4,440,004	4,440,004

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	16.60	0.00	0.00	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
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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
NaturalGas Unmitigated	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178

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	2954.2	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

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	2.9542	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.2624	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Unmitigated	13.2624	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229

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	2.8426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**13.2624**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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	2.8426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**13.2624**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Warehouse (Trucks)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	525.99	1000sqft	25.70	525,991.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce Warehouse (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.

Architectural Coating - Operations run only.

Vehicle Trips - Trucks only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Truck run only.

Area Coating -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblFleetMix	HHD	0.06	0.51
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.26
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3260e-003	0.00

tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	BuildingSpaceSquareFeet	525,990.00	525,991.00
tblLandUse	LandUseSquareFeet	525,990.00	525,991.00
tblLandUse	LotAcreage	12.08	25.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	44.00	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	50.00
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	0.34
tblVehicleTrips	SU_TR	1.68	0.34
tblVehicleTrips	WD_TR	1.68	0.34
tblWater	IndoorWaterUseRate	121,635,187.50	25,289,785.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	2.4168	70.2791	18.7416	0.2381	8.0176	0.6012	8.6188	2.2642	0.5750	2.8392		25,037.5031	25,037.5031	0.8136		25,057.8428
Total	**14.2043**	**70.5692**	**19.0391**	**0.2398**	**8.0176**	**0.6234**	**8.6410**	**2.2642**	**0.5972**	**2.8614**		**25,385.1707**	**25,385.1707**	**0.8206**	**6.3700e-003**	**25,407.5835**

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	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	2.4168	70.2791	18.7416	0.2381	8.0176	0.6012	8.6188	2.2642	0.5750	2.8392		25,037.5031	25,037.5031	0.8136		25,057.8428
Total	**14.2043**	**70.5692**	**19.0391**	**0.2398**	**8.0176**	**0.6234**	**8.6410**	**2.2642**	**0.5972**	**2.8614**		**25,385.1707**	**25,385.1707**	**0.8206**	**6.3700e-003**	**25,407.5835**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 788,987; Non-Residential Outdoor: 262,996; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4168	70.2791	18.7416	0.2381	8.0176	0.6012	8.6188	2.2642	0.5750	2.8392		25,037.5031	25,037.5031	0.8136		25,057.8428
Unmitigated	2.4168	70.2791	18.7416	0.2381	8.0176	0.6012	8.6188	2.2642	0.5750	2.8392		25,037.5031	25,037.5031	0.8136		25,057.8428

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	179.89	179.89	179.89	3,273,972	3,273,972
Total	179.89	179.89	179.89	3,273,972	3,273,972

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	50.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.260000	0.000000	0.230000	0.510000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
NaturalGas Unmitigated	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178

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	2954.2	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

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	2.9542	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Unmitigated	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229

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	1.3359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**11.7556**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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	1.3359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**11.7556**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Katob Property Passenger Cars Unmitigated

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	57.80	1000sqft	1.33	57,799.00	0
Unrefrigerated Warehouse-No Rail	173.40	1000sqft	3.98	173,396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2040
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

Katob Property Passenger Cars Unmitigated - San Bernardino-South Coast County, Summer

Project Characteristics - 2040 Horizon Year

Land Use - Based on TIA

Construction Phase - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

On-road Fugitive Dust - Operation only

Architectural Coating - Operation only

Vehicle Trips - Based on the TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Rule 1113

Energy Use -

Water And Wastewater - From Water Supply Assessment

Fleet Mix - Passenger Cars only

Consumer Products -

Landscape Equipment -

Solid Waste -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	115,598.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	346,793.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	115598	115597
tblAreaCoating	Area_Nonresidential_Interior	346793	346791
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50

Katob Property Passenger Cars Unmitigated - San Bernardino-South Coast County, Summer

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.57	1.00
tblFleetMix	LDA	0.57	1.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	9.0200e-003	0.00
tblFleetMix	LHD1	9.0200e-003	0.00
tblFleetMix	LHD2	4.0660e-003	0.00
tblFleetMix	LHD2	4.0660e-003	0.00
tblFleetMix	MCY	5.2850e-003	0.00
tblFleetMix	MCY	5.2850e-003	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MH	5.2300e-004	0.00
tblFleetMix	MH	5.2300e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	7.3600e-004	0.00
tblFleetMix	SBUS	7.3600e-004	0.00
tblFleetMix	UBUS	1.2770e-003	0.00

tblFleetMix	UBUS	1.2770e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2040
tblTripsAndVMT	WorkerTripNumber	19.00	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.49	3.09
tblVehicleTrips	ST_TR	1.68	1.40
tblVehicleTrips	SU_TR	0.62	3.09
tblVehicleTrips	SU_TR	1.68	1.40
tblVehicleTrips	WD_TR	3.82	3.09

tblVehicleTrips	WD_TR	1.68	1.40
tblWater	IndoorWaterUseRate	13,366,250.00	0.00
tblWater	IndoorWaterUseRate	40,098,750.00	10,413,151.28

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	5.1670	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Energy	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
Mobile	0.1709	0.2783	5.1936	0.0282	5.3138	0.0110	5.3248	1.4086	0.0101	1.4187		2,820.3944	2,820.3944	0.0236		2,820.9850
Total	**5.4040**	**0.8795**	**5.7219**	**0.0318**	**5.3138**	**0.0567**	**5.3705**	**1.4086**	**0.0559**	**1.4645**		**3,541.6045**	**3,541.6045**	**0.0376**	**0.0132**	**3,546.4838**

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	5.1670	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Energy	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
Mobile	0.1709	0.2783	5.1936	0.0282	5.3138	0.0110	5.3248	1.4086	0.0101	1.4187		2,820.3944	2,820.3944	0.0236		2,820.9850
Total	**5.4040**	**0.8795**	**5.7219**	**0.0318**	**5.3138**	**0.0567**	**5.3705**	**1.4086**	**0.0559**	**1.4645**		**3,541.6045**	**3,541.6045**	**0.0376**	**0.0132**	**3,546.4838**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	4/1/2017	4/3/2017	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
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1709	0.2783	5.1936	0.0282	5.3138	0.0110	5.3248	1.4086	0.0101	1.4187		2,820.3944	2,820.3944	0.0236		2,820.9850
Unmitigated	0.1709	0.2783	5.1936	0.0282	5.3138	0.0110	5.3248	1.4086	0.0101	1.4187		2,820.3944	2,820.3944	0.0236		2,820.9850

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	178.60	178.60	178.60	1,079,166	1,079,166
Unrefrigerated Warehouse-No Rail	242.75	242.75	242.75	1,466,819	1,466,819
Total	421.35	421.35	421.35	2,545,985	2,545,985

4.3 Trip Type Information

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
NaturalGas Unmitigated	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450

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					
Manufacturing	5155.99	0.0556	0.5055	0.4246	3.0300e-003		0.0384	0.0384		0.0384	0.0384		606.5868	606.5868	0.0116	0.0111	610.1914
Unrefrigerated Warehouse-No Rail	973.868	0.0105	0.0955	0.0802	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		114.5727	114.5727	2.2000e-003	2.1000e-003	115.2536
Total		**0.0661**	**0.6010**	**0.5048**	**3.6000e-003**		**0.0457**	**0.0457**		**0.0457**	**0.0457**		**721.1595**	**721.1595**	**0.0138**	**0.0132**	**725.4450**

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					
Manufacturing	5.15599	0.0556	0.5055	0.4246	3.0300e-003		0.0384	0.0384		0.0384	0.0384		606.5868	606.5868	0.0116	0.0111	610.1914
Unrefrigerated Warehouse-No Rail	0.973868	0.0105	0.0955	0.0802	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		114.5727	114.5727	2.2000e-003	2.1000e-003	115.2536
Total		**0.0661**	**0.6010**	**0.5048**	**3.6000e-003**		**0.0457**	**0.0457**		**0.0457**	**0.0457**		**721.1595**	**721.1595**	**0.0138**	**0.0132**	**725.4450**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.1670	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Unmitigated	5.1670	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539

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	0.5872					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Total	**5.1670**	**2.1000e-004**	**0.0235**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0506**	**0.0506**	**1.3000e-004**		**0.0539**

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	0.5872					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Total	**5.1670**	**2.1000e-004**	**0.0235**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0506**	**0.0506**	**1.3000e-004**		**0.0539**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Katob Property Mitigated

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	57.80	1000sqft	1.33	57,799.00	0
Unrefrigerated Warehouse-No Rail	173.40	1000sqft	3.98	173,396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2040
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

Project Characteristics - Trucks Only

Land Use - Based on site plan

Construction Phase -

Off-road Equipment - Based on 8 hour workday

Off-road Equipment - Based on 8 hour workday

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Based on Rule 1113

Vehicle Trips - Based on TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Rule 1113

Energy Use -

Water And Wastewater - WSA

Construction Off-road Equipment Mitigation - Rule 403

Fleet Mix - Trucks only

Trips and VMT -

On-road Fugitive Dust -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblFleetMix	HHD	0.07	0.44
tblFleetMix	HHD	0.07	0.51

tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	9.0200e-003	0.37
tblFleetMix	LHD1	9.0200e-003	0.26
tblFleetMix	LHD2	4.0660e-003	0.00
tblFleetMix	LHD2	4.0660e-003	0.00
tblFleetMix	MCY	5.2850e-003	0.00
tblFleetMix	MCY	5.2850e-003	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MH	5.2300e-004	0.00
tblFleetMix	MH	5.2300e-004	0.00
tblFleetMix	MHD	0.02	0.18
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	7.3600e-004	0.00
tblFleetMix	SBUS	7.3600e-004	0.00
tblFleetMix	UBUS	1.2770e-003	0.00
tblFleetMix	UBUS	1.2770e-003	0.00
tblLandUse	BuildingSpaceSquareFeet	57,800.00	57,799.00
tblLandUse	BuildingSpaceSquareFeet	173,400.00	173,396.00
tblLandUse	LandUseSquareFeet	57,800.00	57,799.00

tblLandUse	LandUseSquareFeet	173,400.00	173,396.00
tblProjectCharacteristics	OperationalYear	2018	2040
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	50.00
tblVehicleTrips	CW_TL	16.60	50.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.49	0.84
tblVehicleTrips	ST_TR	1.68	0.34
tblVehicleTrips	SU_TR	0.62	0.84
tblVehicleTrips	SU_TR	1.68	0.34
tblVehicleTrips	WD_TR	3.82	0.84
tblVehicleTrips	WD_TR	1.68	0.34

2.0 Emissions Summary

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					
2017	5.0919	52.3732	24.6251	0.0479	18.2675	2.8800	21.1475	9.9840	2.6496	12.6337	0.0000	4,797.7261	4,797.7261	1.2015	0.0000	4,817.3179
2018	67.3967	28.4861	23.2190	0.0476	1.3276	1.5402	2.8678	0.3576	1.4482	1.8058	0.0000	4,735.0185	4,735.0185	0.7635	0.0000	4,754.1049
Maximum	**67.3967**	**52.3732**	**24.6251**	**0.0479**	**18.2675**	**2.8800**	**21.1475**	**9.9840**	**2.6496**	**12.6337**	**0.0000**	**4,797.7261**	**4,797.7261**	**1.2015**	**0.0000**	**4,817.3179**

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					
2017	5.0919	52.3732	24.6251	0.0479	7.2470	2.8800	10.1271	3.9263	2.6496	6.5760	0.0000	4,797.7261	4,797.7261	1.2015	0.0000	4,817.3179
2018	67.3967	28.4861	23.2190	0.0476	1.3276	1.5402	2.8678	0.3576	1.4482	1.8058	0.0000	4,735.0185	4,735.0185	0.7635	0.0000	4,754.1049
Maximum	**67.3967**	**52.3732**	**24.6251**	**0.0479**	**7.2470**	**2.8800**	**10.1271**	**3.9263**	**2.6496**	**6.5760**	**0.0000**	**4,797.7261**	**4,797.7261**	**1.2015**	**0.0000**	**4,817.3179**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**56.24**	**0.00**	**45.89**	**58.58**	**0.00**	**41.95**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	4.9468	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Energy	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
Mobile	0.6048	13.1988	4.9300	0.1254	4.7852	0.0537	4.8389	1.3497	0.0513	1.4010		13,241.2037	13,241.2037	0.3281		13,249.4058
Total	**5.6177**	**13.7999**	**5.4583**	**0.1290**	**4.7852**	**0.0995**	**4.8847**	**1.3497**	**0.0971**	**1.4468**		**13,962.4138**	**13,962.4138**	**0.3420**	**0.0132**	**13,974.9046**

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	4.9468	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Energy	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
Mobile	0.6048	13.1988	4.9300	0.1254	4.7852	0.0537	4.8389	1.3497	0.0513	1.4010		13,241.2037	13,241.2037	0.3281		13,249.4058
Total	**5.6177**	**13.7999**	**5.4583**	**0.1290**	**4.7852**	**0.0995**	**4.8847**	**1.3497**	**0.0971**	**1.4468**		**13,962.4138**	**13,962.4138**	**0.3420**	**0.0132**	**13,974.9046**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2017	6/14/2017	5	10	
2	Grading	Grading	6/15/2017	7/12/2017	5	20	
3	Building Construction	Building Construction	7/13/2017	5/30/2018	5	230	
4	Paving	Paving	5/31/2018	6/27/2018	5	20	
5	Architectural Coating	Architectural Coating	6/28/2018	7/25/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 346,793; Non-Residential Outdoor: 115,598; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Katob Property Mitigated - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	97.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.9500	3,894.9500	1.1934		3,924.7852
Total	**4.9608**	**52.2754**	**23.4554**	**0.0380**	**18.0663**	**2.8786**	**20.9448**	**9.9307**	**2.6483**	**12.5790**		**3,894.9500**	**3,894.9500**	**1.1934**		**3,924.7852**

3.2 Site Preparation - 2017

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	0.1311	0.0979	0.9570	2.0200e-003	0.2012	1.4500e-003	0.2027	0.0534	1.3400e-003	0.0547		200.5907	200.5907	8.0500e-003		200.7920
Total	**0.1311**	**0.0979**	**0.9570**	**2.0200e-003**	**0.2012**	**1.4500e-003**	**0.2027**	**0.0534**	**1.3400e-003**	**0.0547**		**200.5907**	**200.5907**	**8.0500e-003**		**200.7920**

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
Total	**4.9608**	**52.2754**	**23.4554**	**0.0380**	**7.0458**	**2.8786**	**9.9244**	**3.8730**	**2.6483**	**6.5213**	**0.0000**	**3,894.9500**	**3,894.9500**	**1.1934**		**3,924.7852**

3.2 Site Preparation - 2017

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	0.1311	0.0979	0.9570	2.0200e-003	0.2012	1.4500e-003	0.2027	0.0534	1.3400e-003	0.0547		200.5907	200.5907	8.0500e-003		200.7920
Total	**0.1311**	**0.0979**	**0.9570**	**2.0200e-003**	**0.2012**	**1.4500e-003**	**0.2027**	**0.0534**	**1.3400e-003**	**0.0547**		**200.5907**	**200.5907**	**8.0500e-003**		**200.7920**

3.3 Grading - 2017

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352		3,037.9107	3,037.9107	0.9308		3,061.1809
Total	**3.0705**	**33.8868**	**17.1042**	**0.0297**	**6.5523**	**1.7774**	**8.3298**	**3.3675**	**1.6352**	**5.0027**		**3,037.9107**	**3,037.9107**	**0.9308**		**3,061.1809**

3.3 Grading - 2017

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	0.1093	0.0815	0.7975	1.6800e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1200e-003	0.0456		167.1589	167.1589	6.7100e-003		167.3267
Total	**0.1093**	**0.0815**	**0.7975**	**1.6800e-003**	**0.1677**	**1.2100e-003**	**0.1689**	**0.0445**	**1.1200e-003**	**0.0456**		**167.1589**	**167.1589**	**6.7100e-003**		**167.3267**

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					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352	0.0000	3,037.9107	3,037.9107	0.9308		3,061.1809
Total	**3.0705**	**33.8868**	**17.1042**	**0.0297**	**2.5554**	**1.7774**	**4.3328**	**1.3133**	**1.6352**	**2.9486**	**0.0000**	**3,037.9107**	**3,037.9107**	**0.9308**		**3,061.1809**

3.3 Grading - 2017

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	0.1093	0.0815	0.7975	1.6800e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1200e-003	0.0456		167.1589	167.1589	6.7100e-003		167.3267
Total	**0.1093**	**0.0815**	**0.7975**	**1.6800e-003**	**0.1677**	**1.2100e-003**	**0.1689**	**0.0445**	**1.1200e-003**	**0.0456**		**167.1589**	**167.1589**	**6.7100e-003**		**167.3267**

3.4 Building Construction - 2017

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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	**3.1149**	**26.5546**	**18.1825**	**0.0269**		**1.7879**	**1.7879**		**1.6791**	**1.6791**		**2,650.9797**	**2,650.9797**	**0.6531**		**2,667.3078**

3.4 Building Construction - 2017

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	0.1832	4.9509	1.2855	0.0101	0.2434	0.0416	0.2850	0.0701	0.0398	0.1099		1,065.7853	1,065.7853	0.0872		1,067.9643
Worker	0.7066	0.5273	5.1571	0.0109	1.0842	7.8200e-003	1.0921	0.2875	7.2100e-003	0.2948		1,080.9611	1,080.9611	0.0434		1,082.0458
Total	**0.8898**	**5.4782**	**6.4426**	**0.0210**	**1.3276**	**0.0494**	**1.3771**	**0.3576**	**0.0470**	**0.4046**		**2,146.7464**	**2,146.7464**	**0.1306**		**2,150.0101**

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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	**3.1149**	**26.5546**	**18.1825**	**0.0269**		**1.7879**	**1.7879**		**1.6791**	**1.6791**	**0.0000**	**2,650.9797**	**2,650.9797**	**0.6531**		**2,667.3078**

3.4 Building Construction - 2017

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	0.1832	4.9509	1.2855	0.0101	0.2434	0.0416	0.2850	0.0701	0.0398	0.1099		1,065.7853	1,065.7853	0.0872		1,067.9643
Worker	0.7066	0.5273	5.1571	0.0109	1.0842	7.8200e-003	1.0921	0.2875	7.2100e-003	0.2948		1,080.9611	1,080.9611	0.0434		1,082.0458
Total	**0.8898**	**5.4782**	**6.4426**	**0.0210**	**1.3276**	**0.0494**	**1.3771**	**0.3576**	**0.0470**	**0.4046**		**2,146.7464**	**2,146.7464**	**0.1306**		**2,150.0101**

3.4 Building Construction - 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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**		**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

3.4 Building Construction - 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	0.1603	4.6376	1.1382	0.0101	0.2434	0.0328	0.2762	0.0701	0.0313	0.1014		1,063.3503	1,063.3503	0.0834		1,065.4348
Worker	0.6310	0.4585	4.5003	0.0106	1.0842	7.5300e-003	1.0918	0.2875	6.9400e-003	0.2945		1,050.7330	1,050.7330	0.0380		1,051.6818
Total	**0.7913**	**5.0961**	**5.6386**	**0.0207**	**1.3276**	**0.0403**	**1.3679**	**0.3576**	**0.0383**	**0.3959**		**2,114.0834**	**2,114.0834**	**0.1213**		**2,117.1166**

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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**	**0.0000**	**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

3.4 Building Construction - 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	0.1603	4.6376	1.1382	0.0101	0.2434	0.0328	0.2762	0.0701	0.0313	0.1014		1,063.3503	1,063.3503	0.0834		1,065.4348
Worker	0.6310	0.4585	4.5003	0.0106	1.0842	7.5300e-003	1.0918	0.2875	6.9400e-003	0.2945		1,050.7330	1,050.7330	0.0380		1,051.6818
Total	**0.7913**	**5.0961**	**5.6386**	**0.0207**	**1.3276**	**0.0403**	**1.3679**	**0.3576**	**0.0383**	**0.3959**		**2,114.0834**	**2,114.0834**	**0.1213**		**2,117.1166**

3.5 Paving - 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	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6437**	**17.5209**	**14.7964**	**0.0228**		**0.9561**	**0.9561**		**0.8797**	**0.8797**		**2,294.0887**	**2,294.0887**	**0.7142**		**2,311.9432**

3.5 Paving - 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	0.0000	0.0000	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	0.0976	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
Total	**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**

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	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6437**	**17.5209**	**14.7964**	**0.0228**		**0.9561**	**0.9561**		**0.8797**	**0.8797**	**0.0000**	**2,294.0887**	**2,294.0887**	**0.7142**		**2,311.9432**

3.5 Paving - 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	0.0000	0.0000	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	0.0976	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
Total	**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**

3.6 Architectural Coating - 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					
Archit. Coating	66.9745					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	**67.2731**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.1236	0.0898	0.8815	2.0700e-003	0.2124	1.4800e-003	0.2139	0.0563	1.3600e-003	0.0577		205.8137	205.8137	7.4300e-003		205.9995
Total	**0.1236**	**0.0898**	**0.8815**	**2.0700e-003**	**0.2124**	**1.4800e-003**	**0.2139**	**0.0563**	**1.3600e-003**	**0.0577**		**205.8137**	**205.8137**	**7.4300e-003**		**205.9995**

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	66.9745					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	**67.2731**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.1236	0.0898	0.8815	2.0700e-003	0.2124	1.4800e-003	0.2139	0.0563	1.3600e-003	0.0577		205.8137	205.8137	7.4300e-003		205.9995
Total	**0.1236**	**0.0898**	**0.8815**	**2.0700e-003**	**0.2124**	**1.4800e-003**	**0.2139**	**0.0563**	**1.3600e-003**	**0.0577**		**205.8137**	**205.8137**	**7.4300e-003**		**205.9995**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6048	13.1988	4.9300	0.1254	4.7852	0.0537	4.8389	1.3497	0.0513	1.4010		13,241.2037	13,241.2037	0.3281		13,249.4058
Unmitigated	0.6048	13.1988	4.9300	0.1254	4.7852	0.0537	4.8389	1.3497	0.0513	1.4010		13,241.2037	13,241.2037	0.3281		13,249.4058

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	48.55	48.55	48.55	883,646	883,646
Unrefrigerated Warehouse-No Rail	59.30	59.30	59.30	1,079,311	1,079,311
Total	107.85	107.85	107.85	1,962,957	1,962,957

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	50.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	50.00	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
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.370000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.260000	0.000000	0.230000	0.510000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
NaturalGas Unmitigated	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450

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					
Manufacturing	5155.99	0.0556	0.5055	0.4246	3.0300e-003		0.0384	0.0384		0.0384	0.0384		606.5868	606.5868	0.0116	0.0111	610.1914
Unrefrigerated Warehouse-No Rail	973.868	0.0105	0.0955	0.0802	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		114.5727	114.5727	2.2000e-003	2.1000e-003	115.2536
Total		**0.0661**	**0.6010**	**0.5048**	**3.6000e-003**		**0.0457**	**0.0457**		**0.0457**	**0.0457**		**721.1595**	**721.1595**	**0.0138**	**0.0132**	**725.4450**

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					
Manufacturing	5.15599	0.0556	0.5055	0.4246	3.0300e-003		0.0384	0.0384		0.0384	0.0384		606.5868	606.5868	0.0116	0.0111	610.1914
Unrefrigerated Warehouse-No Rail	0.973868	0.0105	0.0955	0.0802	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		114.5727	114.5727	2.2000e-003	2.1000e-003	115.2536
Total		**0.0661**	**0.6010**	**0.5048**	**3.6000e-003**		**0.0457**	**0.0457**		**0.0457**	**0.0457**		**721.1595**	**721.1595**	**0.0138**	**0.0132**	**725.4450**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.9468	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Unmitigated	4.9468	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539

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	0.3670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Total	**4.9468**	**2.1000e-004**	**0.0235**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0506**	**0.0506**	**1.3000e-004**		**0.0539**

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	0.3670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Total	**4.9468**	**2.1000e-004**	**0.0235**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0506**	**0.0506**	**1.3000e-004**		**0.0539**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Katob Property Mitigated

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	57.80	1000sqft	1.33	57,799.00	0
Unrefrigerated Warehouse-No Rail	173.40	1000sqft	3.98	173,396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2040
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

Project Characteristics - Trucks Only

Land Use - Based on site plan

Construction Phase -

Off-road Equipment - Based on 8 hour workday

Off-road Equipment - Based on 8 hour workday

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Based on Rule 1113

Vehicle Trips - Based on TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Rule 1113

Energy Use -

Water And Wastewater - WSA

Construction Off-road Equipment Mitigation - Rule 403

Fleet Mix - Trucks only

Trips and VMT -

On-road Fugitive Dust -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblFleetMix	HHD	0.07	0.44
tblFleetMix	HHD	0.07	0.51

tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	9.0200e-003	0.37
tblFleetMix	LHD1	9.0200e-003	0.26
tblFleetMix	LHD2	4.0660e-003	0.00
tblFleetMix	LHD2	4.0660e-003	0.00
tblFleetMix	MCY	5.2850e-003	0.00
tblFleetMix	MCY	5.2850e-003	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MH	5.2300e-004	0.00
tblFleetMix	MH	5.2300e-004	0.00
tblFleetMix	MHD	0.02	0.18
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	7.3600e-004	0.00
tblFleetMix	SBUS	7.3600e-004	0.00
tblFleetMix	UBUS	1.2770e-003	0.00
tblFleetMix	UBUS	1.2770e-003	0.00
tblLandUse	BuildingSpaceSquareFeet	57,800.00	57,799.00
tblLandUse	BuildingSpaceSquareFeet	173,400.00	173,396.00
tblLandUse	LandUseSquareFeet	57,800.00	57,799.00

tblLandUse	LandUseSquareFeet	173,400.00	173,396.00
tblProjectCharacteristics	OperationalYear	2018	2040
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	50.00
tblVehicleTrips	CW_TL	16.60	50.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.49	0.84
tblVehicleTrips	ST_TR	1.68	0.34
tblVehicleTrips	SU_TR	0.62	0.84
tblVehicleTrips	SU_TR	1.68	0.34
tblVehicleTrips	WD_TR	3.82	0.84
tblVehicleTrips	WD_TR	1.68	0.34

2.0 Emissions Summary

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					
2017	5.0923	52.3681	25.5556	0.0496	18.2675	2.8800	21.1475	9.9840	2.6496	12.6337	0.0000	4,962.5879	4,962.5879	1.2025	0.0000	4,982.1368
2018	67.3971	28.4827	24.0346	0.0492	1.3276	1.5397	2.8674	0.3576	1.4478	1.8054	0.0000	4,897.6595	4,897.6595	0.7611	0.0000	4,916.6862
Maximum	**67.3971**	**52.3681**	**25.5556**	**0.0496**	**18.2675**	**2.8800**	**21.1475**	**9.9840**	**2.6496**	**12.6337**	**0.0000**	**4,962.5879**	**4,962.5879**	**1.2025**	**0.0000**	**4,982.1368**

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					
2017	5.0923	52.3681	25.5556	0.0496	7.2470	2.8800	10.1271	3.9263	2.6496	6.5760	0.0000	4,962.5879	4,962.5879	1.2025	0.0000	4,982.1368
2018	67.3971	28.4827	24.0346	0.0492	1.3276	1.5397	2.8674	0.3576	1.4478	1.8054	0.0000	4,897.6595	4,897.6595	0.7611	0.0000	4,916.6862
Maximum	**67.3971**	**52.3681**	**25.5556**	**0.0496**	**7.2470**	**2.8800**	**10.1271**	**3.9263**	**2.6496**	**6.5760**	**0.0000**	**4,962.5879**	**4,962.5879**	**1.2025**	**0.0000**	**4,982.1368**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**56.24**	**0.00**	**45.89**	**58.58**	**0.00**	**41.95**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	4.9468	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Energy	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
Mobile	0.5955	12.9818	4.7620	0.1264	4.7852	0.0536	4.8388	1.3497	0.0513	1.4009		13,343.1336	13,343.1336	0.3147		13,351.0001
Total	**5.6084**	**13.5830**	**5.2903**	**0.1300**	**4.7852**	**0.0994**	**4.8846**	**1.3497**	**0.0970**	**1.4467**		**14,064.3436**	**14,064.3436**	**0.3286**	**0.0132**	**14,076.4990**

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	4.9468	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Energy	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
Mobile	0.5955	12.9818	4.7620	0.1264	4.7852	0.0536	4.8388	1.3497	0.0513	1.4009		13,343.1336	13,343.1336	0.3147		13,351.0001
Total	**5.6084**	**13.5830**	**5.2903**	**0.1300**	**4.7852**	**0.0994**	**4.8846**	**1.3497**	**0.0970**	**1.4467**		**14,064.3436**	**14,064.3436**	**0.3286**	**0.0132**	**14,076.4990**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2017	6/14/2017	5	10	
2	Grading	Grading	6/15/2017	7/12/2017	5	20	
3	Building Construction	Building Construction	7/13/2017	5/30/2018	5	230	
4	Paving	Paving	5/31/2018	6/27/2018	5	20	
5	Architectural Coating	Architectural Coating	6/28/2018	7/25/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 346,793; Non-Residential Outdoor: 115,598; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Katob Property Mitigated - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	97.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483		3,894.9500	3,894.9500	1.1934		3,924.7852
Total	**4.9608**	**52.2754**	**23.4554**	**0.0380**	**18.0663**	**2.8786**	**20.9448**	**9.9307**	**2.6483**	**12.5790**		**3,894.9500**	**3,894.9500**	**1.1934**		**3,924.7852**

3.2 Site Preparation - 2017

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	0.1315	0.0928	1.1561	2.2500e-003	0.2012	1.4500e-003	0.2027	0.0534	1.3400e-003	0.0547		223.5383	223.5383	9.1200e-003		223.7664
Total	**0.1315**	**0.0928**	**1.1561**	**2.2500e-003**	**0.2012**	**1.4500e-003**	**0.2027**	**0.0534**	**1.3400e-003**	**0.0547**		**223.5383**	**223.5383**	**9.1200e-003**		**223.7664**

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.9608	52.2754	23.4554	0.0380		2.8786	2.8786		2.6483	2.6483	0.0000	3,894.9500	3,894.9500	1.1934		3,924.7852
Total	**4.9608**	**52.2754**	**23.4554**	**0.0380**	**7.0458**	**2.8786**	**9.9244**	**3.8730**	**2.6483**	**6.5213**	**0.0000**	**3,894.9500**	**3,894.9500**	**1.1934**		**3,924.7852**

3.2 Site Preparation - 2017

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	0.1315	0.0928	1.1561	2.2500e-003	0.2012	1.4500e-003	0.2027	0.0534	1.3400e-003	0.0547		223.5383	223.5383	9.1200e-003		223.7664
Total	**0.1315**	**0.0928**	**1.1561**	**2.2500e-003**	**0.2012**	**1.4500e-003**	**0.2027**	**0.0534**	**1.3400e-003**	**0.0547**		**223.5383**	**223.5383**	**9.1200e-003**		**223.7664**

3.3 Grading - 2017

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352		3,037.9107	3,037.9107	0.9308		3,061.1809
Total	**3.0705**	**33.8868**	**17.1042**	**0.0297**	**6.5523**	**1.7774**	**8.3298**	**3.3675**	**1.6352**	**5.0027**		**3,037.9107**	**3,037.9107**	**0.9308**		**3,061.1809**

3.3 Grading - 2017

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	0.1096	0.0773	0.9634	1.8800e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1200e-003	0.0456		186.2819	186.2819	7.6000e-003		186.4720
Total	**0.1096**	**0.0773**	**0.9634**	**1.8800e-003**	**0.1677**	**1.2100e-003**	**0.1689**	**0.0445**	**1.1200e-003**	**0.0456**		**186.2819**	**186.2819**	**7.6000e-003**		**186.4720**

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					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	3.0705	33.8868	17.1042	0.0297		1.7774	1.7774		1.6352	1.6352	0.0000	3,037.9107	3,037.9107	0.9308		3,061.1809
Total	**3.0705**	**33.8868**	**17.1042**	**0.0297**	**2.5554**	**1.7774**	**4.3328**	**1.3133**	**1.6352**	**2.9486**	**0.0000**	**3,037.9107**	**3,037.9107**	**0.9308**		**3,061.1809**

3.3 Grading - 2017

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	0.1096	0.0773	0.9634	1.8800e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1200e-003	0.0456		186.2819	186.2819	7.6000e-003		186.4720
Total	**0.1096**	**0.0773**	**0.9634**	**1.8800e-003**	**0.1677**	**1.2100e-003**	**0.1689**	**0.0445**	**1.1200e-003**	**0.0456**		**186.2819**	**186.2819**	**7.6000e-003**		**186.4720**

3.4 Building Construction - 2017

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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791		2,650.9797	2,650.9797	0.6531		2,667.3078
Total	**3.1149**	**26.5546**	**18.1825**	**0.0269**		**1.7879**	**1.7879**		**1.6791**	**1.6791**		**2,650.9797**	**2,650.9797**	**0.6531**		**2,667.3078**

3.4 Building Construction - 2017

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	0.1756	4.9631	1.1432	0.0105	0.2434	0.0411	0.2845	0.0701	0.0393	0.1094		1,106.9849	1,106.9849	0.0797		1,108.9766
Worker	0.7087	0.4999	6.2299	0.0121	1.0842	7.8200e-003	1.0921	0.2875	7.2100e-003	0.2948		1,204.6232	1,204.6232	0.0492		1,205.8523
Total	**0.8844**	**5.4629**	**7.3731**	**0.0226**	**1.3276**	**0.0489**	**1.3765**	**0.3576**	**0.0465**	**0.4042**		**2,311.6081**	**2,311.6081**	**0.1288**		**2,314.8289**

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	3.1149	26.5546	18.1825	0.0269		1.7879	1.7879		1.6791	1.6791	0.0000	2,650.9797	2,650.9797	0.6531		2,667.3078
Total	**3.1149**	**26.5546**	**18.1825**	**0.0269**		**1.7879**	**1.7879**		**1.6791**	**1.6791**	**0.0000**	**2,650.9797**	**2,650.9797**	**0.6531**		**2,667.3078**

3.4 Building Construction - 2017

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	0.1756	4.9631	1.1432	0.0105	0.2434	0.0411	0.2845	0.0701	0.0393	0.1094		1,106.9849	1,106.9849	0.0797		1,108.9766
Worker	0.7087	0.4999	6.2299	0.0121	1.0842	7.8200e-003	1.0921	0.2875	7.2100e-003	0.2948		1,204.6232	1,204.6232	0.0492		1,205.8523
Total	**0.8844**	**5.4629**	**7.3731**	**0.0226**	**1.3276**	**0.0489**	**1.3765**	**0.3576**	**0.0465**	**0.4042**		**2,311.6081**	**2,311.6081**	**0.1288**		**2,314.8289**

3.4 Building Construction - 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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**		**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

3.4 Building Construction - 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	0.1531	4.6576	0.9999	0.0105	0.2434	0.0323	0.2757	0.0701	0.0309	0.1010		1,105.5186	1,105.5186	0.0758		1,107.4133
Worker	0.6328	0.4351	5.4543	0.0118	1.0842	7.5300e-003	1.0918	0.2875	6.9400e-003	0.2945		1,171.2058	1,171.2058	0.0432		1,172.2847
Total	**0.7860**	**5.0927**	**6.4542**	**0.0223**	**1.3276**	**0.0399**	**1.3675**	**0.3576**	**0.0379**	**0.3955**		**2,276.7244**	**2,276.7244**	**0.1189**		**2,279.6979**

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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**	**0.0000**	**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

3.4 Building Construction - 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	0.1531	4.6576	0.9999	0.0105	0.2434	0.0323	0.2757	0.0701	0.0309	0.1010		1,105.5186	1,105.5186	0.0758		1,107.4133
Worker	0.6328	0.4351	5.4543	0.0118	1.0842	7.5300e-003	1.0918	0.2875	6.9400e-003	0.2945		1,171.2058	1,171.2058	0.0432		1,172.2847
Total	**0.7860**	**5.0927**	**6.4542**	**0.0223**	**1.3276**	**0.0399**	**1.3675**	**0.3576**	**0.0379**	**0.3955**		**2,276.7244**	**2,276.7244**	**0.1189**		**2,279.6979**

3.5 Paving - 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	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6437**	**17.5209**	**14.7964**	**0.0228**		**0.9561**	**0.9561**		**0.8797**	**0.8797**		**2,294.0887**	**2,294.0887**	**0.7142**		**2,311.9432**

3.5 Paving - 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	0.0000	0.0000	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	0.0979	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
Total	**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**

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	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6437**	**17.5209**	**14.7964**	**0.0228**		**0.9561**	**0.9561**		**0.8797**	**0.8797**	**0.0000**	**2,294.0887**	**2,294.0887**	**0.7142**		**2,311.9432**

3.5 Paving - 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	0.0000	0.0000	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	0.0979	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
Total	**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**

3.6 Architectural Coating - 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					
Archit. Coating	66.9745					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	**67.2731**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.1240	0.0852	1.0684	2.3100e-003	0.2124	1.4800e-003	0.2139	0.0563	1.3600e-003	0.0577		229.4114	229.4114	8.4500e-003		229.6228
Total	**0.1240**	**0.0852**	**1.0684**	**2.3100e-003**	**0.2124**	**1.4800e-003**	**0.2139**	**0.0563**	**1.3600e-003**	**0.0577**		**229.4114**	**229.4114**	**8.4500e-003**		**229.6228**

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	66.9745					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	**67.2731**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.1240	0.0852	1.0684	2.3100e-003	0.2124	1.4800e-003	0.2139	0.0563	1.3600e-003	0.0577		229.4114	229.4114	8.4500e-003		229.6228
Total	**0.1240**	**0.0852**	**1.0684**	**2.3100e-003**	**0.2124**	**1.4800e-003**	**0.2139**	**0.0563**	**1.3600e-003**	**0.0577**		**229.4114**	**229.4114**	**8.4500e-003**		**229.6228**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5955	12.9818	4.7620	0.1264	4.7852	0.0536	4.8388	1.3497	0.0513	1.4009		13,343.1336	13,343.1336	0.3147		13,351.0001
Unmitigated	0.5955	12.9818	4.7620	0.1264	4.7852	0.0536	4.8388	1.3497	0.0513	1.4009		13,343.1336	13,343.1336	0.3147		13,351.0001

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	48.55	48.55	48.55	883,646	883,646
Unrefrigerated Warehouse-No Rail	59.30	59.30	59.30	1,079,311	1,079,311
Total	107.85	107.85	107.85	1,962,957	1,962,957

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	50.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	50.00	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
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.370000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.260000	0.000000	0.230000	0.510000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
NaturalGas Unmitigated	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450

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					
Manufacturing	5155.99	0.0556	0.5055	0.4246	3.0300e-003		0.0384	0.0384		0.0384	0.0384		606.5868	606.5868	0.0116	0.0111	610.1914
Unrefrigerated Warehouse-No Rail	973.868	0.0105	0.0955	0.0802	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		114.5727	114.5727	2.2000e-003	2.1000e-003	115.2536
Total		**0.0661**	**0.6010**	**0.5048**	**3.6000e-003**		**0.0457**	**0.0457**		**0.0457**	**0.0457**		**721.1595**	**721.1595**	**0.0138**	**0.0132**	**725.4450**

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					
Manufacturing	5.15599	0.0556	0.5055	0.4246	3.0300e-003		0.0384	0.0384		0.0384	0.0384		606.5868	606.5868	0.0116	0.0111	610.1914
Unrefrigerated Warehouse-No Rail	0.973868	0.0105	0.0955	0.0802	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		114.5727	114.5727	2.2000e-003	2.1000e-003	115.2536
Total		**0.0661**	**0.6010**	**0.5048**	**3.6000e-003**		**0.0457**	**0.0457**		**0.0457**	**0.0457**		**721.1595**	**721.1595**	**0.0138**	**0.0132**	**725.4450**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.9468	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Unmitigated	4.9468	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539

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	0.3670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Total	**4.9468**	**2.1000e-004**	**0.0235**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0506**	**0.0506**	**1.3000e-004**		**0.0539**

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	0.3670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Total	**4.9468**	**2.1000e-004**	**0.0235**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0506**	**0.0506**	**1.3000e-004**		**0.0539**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Katob Property Passenger Cars Unmitigated

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	57.80	1000sqft	1.33	57,799.00	0
Unrefrigerated Warehouse-No Rail	173.40	1000sqft	3.98	173,396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2040
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

Katob Property Passenger Cars Unmitigated - San Bernardino-South Coast County, Winter

Project Characteristics - 2040 Horizon Year

Land Use - Based on TIA

Construction Phase - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

On-road Fugitive Dust - Operation only

Architectural Coating - Operation only

Vehicle Trips - Based on the TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - Rule 1113

Energy Use -

Water And Wastewater - From Water Supply Assessment

Fleet Mix - Passenger Cars only

Consumer Products -

Landscape Equipment -

Solid Waste -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	115,598.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	346,793.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	115598	115597
tblAreaCoating	Area_Nonresidential_Interior	346793	346791
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50

Katob Property Passenger Cars Unmitigated - San Bernardino-South Coast County, Winter

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.57	1.00
tblFleetMix	LDA	0.57	1.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT1	0.03	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	9.0200e-003	0.00
tblFleetMix	LHD1	9.0200e-003	0.00
tblFleetMix	LHD2	4.0660e-003	0.00
tblFleetMix	LHD2	4.0660e-003	0.00
tblFleetMix	MCY	5.2850e-003	0.00
tblFleetMix	MCY	5.2850e-003	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MDV	0.10	0.00
tblFleetMix	MH	5.2300e-004	0.00
tblFleetMix	MH	5.2300e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	7.3600e-004	0.00
tblFleetMix	SBUS	7.3600e-004	0.00
tblFleetMix	UBUS	1.2770e-003	0.00

Katob Property Passenger Cars Unmitigated - San Bernardino-South Coast County, Winter

tblFleetMix	UBUS	1.2770e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2040
tblTripsAndVMT	WorkerTripNumber	19.00	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.49	3.09
tblVehicleTrips	ST_TR	1.68	1.40
tblVehicleTrips	SU_TR	0.62	3.09
tblVehicleTrips	SU_TR	1.68	1.40
tblVehicleTrips	WD_TR	3.82	3.09

tblVehicleTrips	WD_TR	1.68	1.40
tblWater	IndoorWaterUseRate	13,366,250.00	0.00
tblWater	IndoorWaterUseRate	40,098,750.00	10,413,151.28

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	5.1670	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Energy	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
Mobile	0.1398	0.2889	4.0993	0.0252	5.3138	0.0110	5.3248	1.4086	0.0101	1.4187		2,523.2886	2,523.2886	0.0204		2,523.7978
Total	**5.3729**	**0.8901**	**4.6276**	**0.0289**	**5.3138**	**0.0567**	**5.3705**	**1.4086**	**0.0559**	**1.4645**		**3,244.4986**	**3,244.4986**	**0.0343**	**0.0132**	**3,249.2967**

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	5.1670	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Energy	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
Mobile	0.1398	0.2889	4.0993	0.0252	5.3138	0.0110	5.3248	1.4086	0.0101	1.4187		2,523.2886	2,523.2886	0.0204		2,523.7978
Total	**5.3729**	**0.8901**	**4.6276**	**0.0289**	**5.3138**	**0.0567**	**5.3705**	**1.4086**	**0.0559**	**1.4645**		**3,244.4986**	**3,244.4986**	**0.0343**	**0.0132**	**3,249.2967**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	4/1/2017	4/3/2017	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
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1398	0.2889	4.0993	0.0252	5.3138	0.0110	5.3248	1.4086	0.0101	1.4187		2,523.2886	2,523.2886	0.0204		2,523.7978
Unmitigated	0.1398	0.2889	4.0993	0.0252	5.3138	0.0110	5.3248	1.4086	0.0101	1.4187		2,523.2886	2,523.2886	0.0204		2,523.7978

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	178.60	178.60	178.60	1,079,166	1,079,166
Unrefrigerated Warehouse-No Rail	242.75	242.75	242.75	1,466,819	1,466,819
Total	421.35	421.35	421.35	2,545,985	2,545,985

4.3 Trip Type Information

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450
NaturalGas Unmitigated	0.0661	0.6010	0.5048	3.6100e-003		0.0457	0.0457		0.0457	0.0457		721.1595	721.1595	0.0138	0.0132	725.4450

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					
Manufacturing	5155.99	0.0556	0.5055	0.4246	3.0300e-003		0.0384	0.0384		0.0384	0.0384		606.5868	606.5868	0.0116	0.0111	610.1914
Unrefrigerated Warehouse-No Rail	973.868	0.0105	0.0955	0.0802	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		114.5727	114.5727	2.2000e-003	2.1000e-003	115.2536
Total		**0.0661**	**0.6010**	**0.5048**	**3.6000e-003**		**0.0457**	**0.0457**		**0.0457**	**0.0457**		**721.1595**	**721.1595**	**0.0138**	**0.0132**	**725.4450**

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					
Manufacturing	5.15599	0.0556	0.5055	0.4246	3.0300e-003		0.0384	0.0384		0.0384	0.0384		606.5868	606.5868	0.0116	0.0111	610.1914
Unrefrigerated Warehouse-No Rail	0.973868	0.0105	0.0955	0.0802	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003		114.5727	114.5727	2.2000e-003	2.1000e-003	115.2536
Total		**0.0661**	**0.6010**	**0.5048**	**3.6000e-003**		**0.0457**	**0.0457**		**0.0457**	**0.0457**		**721.1595**	**721.1595**	**0.0138**	**0.0132**	**725.4450**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.1670	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Unmitigated	5.1670	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539

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	0.5872					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Total	**5.1670**	**2.1000e-004**	**0.0235**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0506**	**0.0506**	**1.3000e-004**		**0.0539**

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	0.5872					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0235	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0506	0.0506	1.3000e-004		0.0539
Total	**5.1670**	**2.1000e-004**	**0.0235**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0506**	**0.0506**	**1.3000e-004**		**0.0539**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Manufacturing (Trucks) Mitigated

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	8.56	175,330.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce Manufacturing (Trucks) Mitigated - Riverside-South Coast County, Winter

Project Characteristics - Trucks only.

Land Use - Lot acreage based on SIte Plan.

Construction Phase - Operations run only.

Off-road Equipment -

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Truck run only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Truck run only.

Area Coating -

Energy Use -

Solid Waste -

Vehicle Emission Factors - 2010 trucks or better.

Vehicle Emission Factors - 2010 trucks or better.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.07	0.44
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.37
tblFleetMix	LHD2	5.5610e-003	0.00
tblFleetMix	MCY	4.6770e-003	0.00

tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.2110e-003	0.00
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3450e-003	0.00
tblFleetMix	SBUS	9.7400e-004	0.00
tblFleetMix	UBUS	1.2470e-003	0.00
tblLandUse	LotAcreage	4.03	8.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleEF	HHD	3.23	2.31
tblVehicleEF	HHD	3.40	2.40
tblVehicleEF	LHD1	2.34	0.10
tblVehicleEF	LHD1	2.46	0.10
tblVehicleEF	MHD	2.38	0.90
tblVehicleEF	MHD	2.50	0.93
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	50.00
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	1.49	0.84
tblVehicleTrips	SU_TR	0.62	0.84

tblVehicleTrips	WD_TR	3.82	0.84
tblWater	IndoorWaterUseRate	40,545,062.50	8,429,928.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	3.9185	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	1.6953	28.3717	13.7180	0.1754	6.4926	0.4937	6.9863	1.8288	0.4722	2.3010		18,400.4208	18,400.4208	0.6068		18,415.5912
Total	**5.7825**	**29.9052**	**15.0241**	**0.1846**	**6.4926**	**0.6103**	**7.1029**	**1.8288**	**0.5888**	**2.4176**		**20,240.5058**	**20,240.5058**	**0.6422**	**0.0337**	**20,266.6133**

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	3.9185	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	1.6953	28.3717	13.7180	0.1754	6.4926	0.4937	6.9863	1.8288	0.4722	2.3010		18,400.4208	18,400.4208	0.6068		18,415.5912
Total	**5.7825**	**29.9052**	**15.0241**	**0.1846**	**6.4926**	**0.6103**	**7.1029**	**1.8288**	**0.5888**	**2.4176**		**20,240.5058**	**20,240.5058**	**0.6422**	**0.0337**	**20,266.6133**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 262,995; Non-Residential Outdoor: 87,665; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6953	28.3717	13.7180	0.1754	6.4926	0.4937	6.9863	1.8288	0.4722	2.3010		18,400.4208	18,400.4208	0.6068		18,415.5912
Unmitigated	1.6953	28.3717	13.7180	0.1754	6.4926	0.4937	6.9863	1.8288	0.4722	2.3010		18,400.4208	18,400.4208	0.6068		18,415.5912

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	147.28	147.28	147.28	2,680,445	2,680,445
Total	147.28	147.28	147.28	2,680,445	2,680,445

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	50.00	0.00	0.00	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
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.370000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
NaturalGas Unmitigated	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812

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					
Manufacturing	15640.4	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

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					
Manufacturing	15.6404	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.9185	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Unmitigated	3.9185	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410

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	0.4453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**3.9185**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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	0.4453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**3.9185**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Manufacturing (Trucks) Mitigated

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	175.33	1000sqft	8.56	175,330.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2019
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

Project Characteristics - Trucks only.

Land Use - Lot acreage based on SIte Plan.

Construction Phase - Operations run only.

Off-road Equipment -

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Truck run only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Fleet Mix - Truck run only.

Area Coating -

Energy Use -

Solid Waste -

Vehicle Emission Factors - 2010 trucks or better.

Vehicle Emission Factors - 2010 trucks or better.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.07	0.44
tblFleetMix	LDA	0.53	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.37
tblFleetMix	LHD2	5.5610e-003	0.00
tblFleetMix	MCY	4.6770e-003	0.00

tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.2110e-003	0.00
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3450e-003	0.00
tblFleetMix	SBUS	9.7400e-004	0.00
tblFleetMix	UBUS	1.2470e-003	0.00
tblLandUse	LotAcreage	4.03	8.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleEF	HHD	3.23	2.31
tblVehicleEF	HHD	3.40	2.40
tblVehicleEF	LHD1	2.34	0.10
tblVehicleEF	LHD1	2.46	0.10
tblVehicleEF	MHD	2.38	0.90
tblVehicleEF	MHD	2.50	0.93
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	50.00
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	1.49	0.84
tblVehicleTrips	SU_TR	0.62	0.84

tblVehicleTrips	WD_TR	3.82	0.84
tblWater	IndoorWaterUseRate	40,545,062.50	8,429,928.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	3.9185	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	1.6786	27.8692	13.4629	0.1767	6.4926	0.4925	6.9851	1.8288	0.4711	2.2999		18,532.8564	18,532.8564	0.5774		18,547.2910
Total	**5.7658**	**29.4028**	**14.7690**	**0.1859**	**6.4926**	**0.6091**	**7.1017**	**1.8288**	**0.5877**	**2.4165**		**20,372.9415**	**20,372.9415**	**0.6128**	**0.0337**	**20,398.3131**

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	3.9185	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Energy	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Mobile	1.6786	27.8692	13.4629	0.1767	6.4926	0.4925	6.9851	1.8288	0.4711	2.2999		18,532.8564	18,532.8564	0.5774		18,547.2910
Total	**5.7658**	**29.4028**	**14.7690**	**0.1859**	**6.4926**	**0.6091**	**7.1017**	**1.8288**	**0.5877**	**2.4165**		**20,372.9415**	**20,372.9415**	**0.6128**	**0.0337**	**20,398.3131**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 262,995; Non-Residential Outdoor: 87,665; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6786	27.8692	13.4629	0.1767	6.4926	0.4925	6.9851	1.8288	0.4711	2.2999		18,532.8564	18,532.8564	0.5774		18,547.2910
Unmitigated	1.6786	27.8692	13.4629	0.1767	6.4926	0.4925	6.9851	1.8288	0.4711	2.2999		18,532.8564	18,532.8564	0.5774		18,547.2910

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	147.28	147.28	147.28	2,680,445	2,680,445
Total	147.28	147.28	147.28	2,680,445	2,680,445

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	50.00	0.00	0.00	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
Manufacturing	0.000000	0.000000	0.000000	0.000000	0.370000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
NaturalGas Unmitigated	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812

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					
Manufacturing	15640.4	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

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					
Manufacturing	15.6404	0.1687	1.5334	1.2880	9.2000e-003		0.1165	0.1165		0.1165	0.1165		1,840.0467	1,840.0467	0.0353	0.0337	1,850.9812
Total		**0.1687**	**1.5334**	**1.2880**	**9.2000e-003**		**0.1165**	**0.1165**		**0.1165**	**0.1165**		**1,840.0467**	**1,840.0467**	**0.0353**	**0.0337**	**1,850.9812**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.9185	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Unmitigated	3.9185	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410

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	0.4453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**3.9185**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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	0.4453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7100e-003	1.7000e-004	0.0181	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0410
Total	**3.9185**	**1.7000e-004**	**0.0181**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0410**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce High Cube (Trucks)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	998.68	1000sqft	49.65	998,680.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce High Cube (Trucks) - San Bernardino-South Coast County, Winter

Project Characteristics - Trucks Only

Land Use - Lot acreage based on Site Plan.

Construction Phase - Operations only.

Off-road Equipment -

Off-road Equipment - Operations only.

Trips and VMT - Operations only.

Architectural Coating - Operations only.

Vehicle Trips - Passenger cars only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper (2014) and the Port of Long Beach Air Emissions Inventory (2013)

Fleet Mix - Truck Run Only

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation -

Vehicle Emission Factors - 2010 or Better Trucks

Vehicle Emission Factors - 2010 or Better Trucks

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	55.00	1.00
tblFleetMix	HHD	0.06	0.63
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00

tblFleetMix	LHD1	0.02	0.16
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	LotAcreage	22.93	49.65
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	84.00	0.00
tblVehicleEF	HHD	3.34	2.31
tblVehicleEF	HHD	3.50	2.40
tblVehicleEF	LHD1	2.37	0.10
tblVehicleEF	LHD1	2.48	0.10
tblVehicleEF	MHD	2.23	0.90
tblVehicleEF	MHD	2.33	0.93
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	50.00
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	0.44
tblVehicleTrips	SU_TR	1.68	0.44
tblVehicleTrips	WD_TR	1.68	0.44
tblWater	IndoorWaterUseRate	230,944,750.00	48,867,010.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	5.9247	117.0628	42.5078	0.6321	19.5896	1.4360	21.0256	5.5067	1.3736	6.8803		66,676.0827	66,676.0827	2.2878		66,733.2781
Offroad	0.9589	12.3211	4.7778	0.0191		0.3993	0.3993		0.3673	0.3673		1,884.9591	1,884.9591	0.5964		1,899.8686
Total	**29.2641**	**129.9348**	**47.8505**	**0.6545**	**19.5896**	**1.8774**	**21.4670**	**5.5067**	**1.7831**	**7.2897**		**69,221.1455**	**69,221.1455**	**2.8974**	**0.0121**	**69,297.1866**

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	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	5.9247	117.0628	42.5078	0.6321	19.5896	1.4360	21.0256	5.5067	1.3736	6.8803		66,676.0827	66,676.0827	2.2878		66,733.2781
Offroad	0.9589	12.3211	4.7778	0.0191		0.3993	0.3993		0.3673	0.3673		1,884.9591	1,884.9591	0.5964		1,899.8686
Total	**29.2641**	**129.9348**	**47.8505**	**0.6545**	**19.5896**	**1.8774**	**21.4670**	**5.5067**	**1.7831**	**7.2897**		**69,221.1455**	**69,221.1455**	**2.8974**	**0.0121**	**69,297.1866**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 1,498,020; Non-Residential Outdoor: 499,340; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

3.2 Architectural Coating - 2017

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

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

3.2 Architectural Coating - 2017

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.9247	117.0628	42.5078	0.6321	19.5896	1.4360	21.0256	5.5067	1.3736	6.8803		66,676.0827	66,676.0827	2.2878		66,733.2781
Unmitigated	5.9247	117.0628	42.5078	0.6321	19.5896	1.4360	21.0256	5.5067	1.3736	6.8803		66,676.0827	66,676.0827	2.2878		66,733.2781

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	439.42	439.42	439.42	7,997,429	7,997,429
Total	439.42	439.42	439.42	7,997,429	7,997,429

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	50.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.160000	0.000000	0.210000	0.630000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
NaturalGas Unmitigated	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066

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	5609.02	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

5.2 Energy by Land Use - NaturalGas

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	5.60902	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Unmitigated	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334

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	2.5364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**22.3200**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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	2.5364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**22.3200**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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
Tractors/Loaders/Backhoes	6	4.00	365	200	0.37	CNG

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					
Tractors/Loaders/Backhoes	0.9589	12.3211	4.7778	0.0191		0.3993	0.3993		0.3673	0.3673		1,884.9591	1,884.9591	0.5964		1,899.8686
Total	**0.9589**	**12.3211**	**4.7778**	**0.0191**		**0.3993**	**0.3993**		**0.3673**	**0.3673**		**1,884.9591**	**1,884.9591**	**0.5964**		**1,899.8686**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce High Cube (Trucks)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	998.68	1000sqft	49.65	998,680.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce High Cube (Trucks) - San Bernardino-South Coast County, Summer

Project Characteristics - Trucks Only

Land Use - Lot acreage based on Site Plan.

Construction Phase - Operations only.

Off-road Equipment -

Off-road Equipment - Operations only.

Trips and VMT - Operations only.

Architectural Coating - Operations only.

Vehicle Trips - Passenger cars only.

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper (2014) and the Port of Long Beach Air Emissions Inventory (2013)

Fleet Mix - Truck Run Only

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation -

Vehicle Emission Factors - 2010 or Better Trucks

Vehicle Emission Factors - 2010 or Better Trucks

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	55.00	1.00
tblFleetMix	HHD	0.06	0.63
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00

tblFleetMix	LHD1	0.02	0.16
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	LotAcreage	22.93	49.65
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	6.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	84.00	0.00
tblVehicleEF	HHD	3.34	2.31
tblVehicleEF	HHD	3.50	2.40
tblVehicleEF	LHD1	2.37	0.10
tblVehicleEF	LHD1	2.48	0.10
tblVehicleEF	MHD	2.23	0.90
tblVehicleEF	MHD	2.33	0.93
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	50.00
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	0.44
tblVehicleTrips	SU_TR	1.68	0.44
tblVehicleTrips	WD_TR	1.68	0.44
tblWater	IndoorWaterUseRate	230,944,750.00	48,867,010.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	5.8451	115.1497	41.1597	0.6378	19.5896	1.4314	21.0210	5.5067	1.3692	6.8759		67,281.5378	67,281.5378	2.1832		67,336.1187
Offroad	0.9589	12.3211	4.7778	0.0191		0.3993	0.3993		0.3673	0.3673		1,884.9591	1,884.9591	0.5964		1,899.8686
Total	**29.1845**	**128.0217**	**46.5025**	**0.6602**	**19.5896**	**1.8729**	**21.4625**	**5.5067**	**1.7787**	**7.2854**		**69,826.6007**	**69,826.6007**	**2.7929**	**0.0121**	**69,900.0272**

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	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Energy	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Mobile	5.8451	115.1497	41.1597	0.6378	19.5896	1.4314	21.0210	5.5067	1.3692	6.8759		67,281.5378	67,281.5378	2.1832		67,336.1187
Offroad	0.9589	12.3211	4.7778	0.0191		0.3993	0.3993		0.3673	0.3673		1,884.9591	1,884.9591	0.5964		1,899.8686
Total	**29.1845**	**128.0217**	**46.5025**	**0.6602**	**19.5896**	**1.8729**	**21.4625**	**5.5067**	**1.7787**	**7.2854**		**69,826.6007**	**69,826.6007**	**2.7929**	**0.0121**	**69,900.0272**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 1,498,020; Non-Residential Outdoor: 499,340; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

3.2 Architectural Coating - 2017

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

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

3.2 Architectural Coating - 2017

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.8451	115.1497	41.1597	0.6378	19.5896	1.4314	21.0210	5.5067	1.3692	6.8759		67,281.5378	67,281.5378	2.1832		67,336.1187
Unmitigated	5.8451	115.1497	41.1597	0.6378	19.5896	1.4314	21.0210	5.5067	1.3692	6.8759		67,281.5378	67,281.5378	2.1832		67,336.1187

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	439.42	439.42	439.42	7,997,429	7,997,429
Total	439.42	439.42	439.42	7,997,429	7,997,429

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	50.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.160000	0.000000	0.210000	0.630000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
NaturalGas Unmitigated	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066

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	5609.02	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

5.2 Energy by Land Use - NaturalGas

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	5.60902	0.0605	0.5499	0.4619	3.3000e-003		0.0418	0.0418		0.0418	0.0418		659.8853	659.8853	0.0127	0.0121	663.8066
Total		**0.0605**	**0.5499**	**0.4619**	**3.3000e-003**		**0.0418**	**0.0418**		**0.0418**	**0.0418**		**659.8853**	**659.8853**	**0.0127**	**0.0121**	**663.8066**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Unmitigated	22.3200	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334

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	2.5364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**22.3200**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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	2.5364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	19.7739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7600e-003	9.6000e-004	0.1030	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		0.2186	0.2186	5.9000e-004		0.2334
Total	**22.3200**	**9.6000e-004**	**0.1030**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**		**0.2186**	**0.2186**	**5.9000e-004**		**0.2334**

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
Tractors/Loaders/Backhoes	6	4.00	365	200	0.37	CNG

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					
Tractors/Loaders/Backhoes	0.9589	12.3211	4.7778	0.0191		0.3993	0.3993		0.3673	0.3673		1,884.9591	1,884.9591	0.5964		1,899.8686
Total	**0.9589**	**12.3211**	**4.7778**	**0.0191**		**0.3993**	**0.3993**		**0.3673**	**0.3673**		**1,884.9591**	**1,884.9591**	**0.5964**		**1,899.8686**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Warehouse (Trucks) Mitigated

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	525.99	1000sqft	25.70	525,991.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce Warehouse (Trucks) Mitigated - 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.

Architectural Coating - Operations run only.

Vehicle Trips - Trucks only.

Area Coating -

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Solid Waste -

Fleet Mix - Truck run only.

Vehicle Emission Factors - 2010 trucks or better.

Vehicle Emission Factors - 2010 trucks or better.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblFleetMix	HHD	0.06	0.51
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.26
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00

tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	BuildingSpaceSquareFeet	525,990.00	525,991.00
tblLandUse	LandUseSquareFeet	525,990.00	525,991.00
tblLandUse	LotAcreage	12.08	25.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	44.00	0.00
tblVehicleEF	HHD	3.34	2.31
tblVehicleEF	HHD	3.50	2.40
tblVehicleEF	LHD1	2.37	0.10
tblVehicleEF	LHD1	2.48	0.10
tblVehicleEF	MHD	2.23	0.90
tblVehicleEF	MHD	2.33	0.93
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	50.00
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	0.34
tblVehicleTrips	SU_TR	1.68	0.34
tblVehicleTrips	WD_TR	1.68	0.34

tblWater	IndoorWaterUseRate	121,635,187.50	25,289,785.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Colony Commerce Warehouse (Trucks) Mitigated - 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	2.4026	40.2980	18.6320	0.2367	7.9708	0.5977	8.5684	2.2509	0.5717	2.8226		24,891.0850	24,891.0850	0.8088		24,911.3057
Total	**14.1901**	**40.5881**	**18.9295**	**0.2384**	**7.9708**	**0.6199**	**8.5906**	**2.2509**	**0.5939**	**2.8448**		**25,238.7526**	**25,238.7526**	**0.8158**	**6.3700e-003**	**25,261.0464**

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	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	2.4026	40.2980	18.6320	0.2367	7.9708	0.5977	8.5684	2.2509	0.5717	2.8226		24,891.0850	24,891.0850	0.8088		24,911.3057
Total	**14.1901**	**40.5881**	**18.9295**	**0.2384**	**7.9708**	**0.6199**	**8.5906**	**2.2509**	**0.5939**	**2.8448**		**25,238.7526**	**25,238.7526**	**0.8158**	**6.3700e-003**	**25,261.0464**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 788,987; Non-Residential Outdoor: 262,996; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4026	40.2980	18.6320	0.2367	7.9708	0.5977	8.5684	2.2509	0.5717	2.8226		24,891.0850	24,891.0850	0.8088		24,911.3057
Unmitigated	2.4026	40.2980	18.6320	0.2367	7.9708	0.5977	8.5684	2.2509	0.5717	2.8226		24,891.0850	24,891.0850	0.8088		24,911.3057

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	178.84	178.84	178.84	3,254,826	3,254,826
Total	178.84	178.84	178.84	3,254,826	3,254,826

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	50.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.260000	0.000000	0.230000	0.510000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
NaturalGas Unmitigated	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178

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	2954.2	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

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	2.9542	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Unmitigated	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229

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	1.3359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**11.7556**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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	1.3359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**11.7556**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Colony Commerce Warehouse (Trucks) Mitigated

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	525.99	1000sqft	25.70	525,991.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2019
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

Colony Commerce Warehouse (Trucks) Mitigated - 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.

Architectural Coating - Operations run only.

Vehicle Trips - Trucks only.

Area Coating -

Water And Wastewater - Indoor water use based on Water Supply Assessment.

Solid Waste -

Fleet Mix - Truck run only.

Vehicle Emission Factors - 2010 trucks or better.

Vehicle Emission Factors - 2010 trucks or better.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblConstructionPhase	NumDays	35.00	1.00
tblFleetMix	HHD	0.06	0.51
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.26
tblFleetMix	LHD2	5.6710e-003	0.00
tblFleetMix	MCY	6.2440e-003	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	1.1630e-003	0.00

tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3260e-003	0.00
tblFleetMix	SBUS	8.2300e-004	0.00
tblFleetMix	UBUS	1.7150e-003	0.00
tblLandUse	BuildingSpaceSquareFeet	525,990.00	525,991.00
tblLandUse	LandUseSquareFeet	525,990.00	525,991.00
tblLandUse	LotAcreage	12.08	25.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	WorkerTripNumber	44.00	0.00
tblVehicleEF	HHD	3.34	2.31
tblVehicleEF	HHD	3.50	2.40
tblVehicleEF	LHD1	2.37	0.10
tblVehicleEF	LHD1	2.48	0.10
tblVehicleEF	MHD	2.23	0.90
tblVehicleEF	MHD	2.33	0.93
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	50.00
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	0.34
tblVehicleTrips	SU_TR	1.68	0.34
tblVehicleTrips	WD_TR	1.68	0.34

tblWater	IndoorWaterUseRate	121,635,187.50	25,289,785.00

2.0 Emissions Summary

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Colony Commerce Warehouse (Trucks) Mitigated - 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	2.3775	39.6155	18.2446	0.2386	7.9708	0.5962	8.5669	2.2509	0.5702	2.8211		25,091.0860	25,091.0860	0.7754		25,110.4716
Total	**14.1650**	**39.9056**	**18.5421**	**0.2403**	**7.9708**	**0.6184**	**8.5891**	**2.2509**	**0.5924**	**2.8433**		**25,438.7535**	**25,438.7535**	**0.7824**	**6.3700e-003**	**25,460.2123**

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	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Energy	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Mobile	2.3775	39.6155	18.2446	0.2386	7.9708	0.5962	8.5669	2.2509	0.5702	2.8211		25,091.0860	25,091.0860	0.7754		25,110.4716
Total	**14.1650**	**39.9056**	**18.5421**	**0.2403**	**7.9708**	**0.6184**	**8.5891**	**2.2509**	**0.5924**	**2.8433**		**25,438.7535**	**25,438.7535**	**0.7824**	**6.3700e-003**	**25,460.2123**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/4/2017	12/4/2017	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: 788,987; Non-Residential Outdoor: 262,996; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2017

Unmitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Architectural Coating - 2017

Mitigated Construction On-Site

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

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
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3775	39.6155	18.2446	0.2386	7.9708	0.5962	8.5669	2.2509	0.5702	2.8211		25,091.0860	25,091.0860	0.7754		25,110.4716
Unmitigated	2.3775	39.6155	18.2446	0.2386	7.9708	0.5962	8.5669	2.2509	0.5702	2.8211		25,091.0860	25,091.0860	0.7754		25,110.4716

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	178.84	178.84	178.84	3,254,826	3,254,826
Total	178.84	178.84	178.84	3,254,826	3,254,826

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	50.00	0.00	0.00	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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.260000	0.000000	0.230000	0.510000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
NaturalGas Unmitigated	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178

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	2954.2	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

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	2.9542	0.0319	0.2896	0.2433	1.7400e-003		0.0220	0.0220		0.0220	0.0220		347.5525	347.5525	6.6600e-003	6.3700e-003	349.6178
Total		**0.0319**	**0.2896**	**0.2433**	**1.7400e-003**		**0.0220**	**0.0220**		**0.0220**	**0.0220**		**347.5525**	**347.5525**	**6.6600e-003**	**6.3700e-003**	**349.6178**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Unmitigated	11.7556	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229

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	1.3359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**11.7556**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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	1.3359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.4146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1400e-003	5.0000e-004	0.0542	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1151	0.1151	3.1000e-004		0.1229
Total	**11.7556**	**5.0000e-004**	**0.0542**	**0.0000**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**		**0.1151**	**0.1151**	**3.1000e-004**		**0.1229**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.2:

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[a]	Attainment Date[b]
Ozone (O_3)	(1979) **1-Hour** (0.12 ppm)[c]	Nonattainment ("extreme")	2/26/2023 (revised deadline)
	(2015) **8-Hour** (0.070 ppm)[d]	Pending – Expect Nonattainment ("extreme")	Pending (beyond 2032)
	(2008) **8-Hour** (0.075 ppm)[d]	Nonattainment ("extreme")	7/20/2032
	(1997) **8-Hour** (0.08 ppm)[d]	Nonattainment ("extreme")	6/15/2024
PM2.5[e]	(2006) **24-Hour** (35 µg/m^3)	Nonattainment ("serious")	12/31/2019
	(2012) **Annual** (12.0 µg/m^3)	Nonattainment ("moderate")	12/31/2021
	(1997) **Annual** (15.0 µg/m^3)	Attainment (final determination pending)	4/5/2015 (attained 2013)
PM10[f]	(1987) **24-hour** (150 µg/m^3)	Attainment (Maintenance)	7/26/2013 (attained)
Lead (Pb)[g]	(2008) **3-Months Rolling** (0.15 µg/m^3)	Nonattainment (Partial) (Attainment determination to be requested)	12/31/2015
CO	(1971) **1-Hour** (35 ppm)	Attainment (Maintenance)	6/11/2007 (attained)
	(1971) **8-Hour** (9 ppm)	Attainment (Maintenance)	6/11/2007 (attained)
NO_2[h]	(2010) **1-Hour** (100 ppb)	Unclassifiable/Attainment	N/A (attained)
	(1971) **Annual** (0.053 ppm)	Attainment (Maintenance)	9/22/1998 (attained)
SO_2[i]	(2010) **1-Hour** (75 ppb)	Designations Pending (expect Unclassifiable/Attainment)	N/A (attained)
	(1971) **24-Hour** (0.14 ppm) (1971) **Annual** (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 PM2.5 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 PM2.5 NAAQS was revised on 1/15/13, effective 3/18/13, from 15 to 12 µg/m^3; 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^3) and 24-hour PM2.5 (65 µg/m^3) NAAQS, effective August 24, 2016

f) The annual PM10 NAAQS was revoked, effective 12/18/06; the 24-hour PM10 NAAQS deadline was 12/31/2006; the Basin's Attainment Re-designation Request and PM10 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_2 NAAQS became effective 8/2/10, with attainment designations 1/20/12; annual NO_2 NAAQS retained

i) The 1971 annual and 24-hour SO2 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 SO2 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[a]	Attainment Date[b]
Ozone (O_3)	(1979) **1-Hour** (0.12 ppm)[c]	Attainment	11/15/2007 (attained 12/31/2013)
	(2015) **8-Hour** (0.070 ppm)[d]	Pending – Expect Nonattainment (Severe)	Pending
	(2008) **8-Hour** (0.075 ppm)[d]	Nonattainment (Severe-15)	7/20/2027
	(1997) **8-Hour** (0.08 ppm)[d]	Nonattainment (Severe-15)	6/15/2019
PM2.5[e]	(2006) **24-Hour** (35 µg/m^3)	Unclassifiable/Attainment	N/A (attained)
	(2012) **Annual** (12.0 µg/m^3)	Unclassifiable/Attainment	N/A (attained)
	(1997) **Annual** (15.0 µg/m^3)	Unclassifiable/Attainment	N/A (attained)
PM10[f]	(1987) **24-hour** (150 µg/m^3)	Nonattainment ("serious")	12/31/2006
Lead (Pb)	(2008) **3-Months Rolling** (0.15 µg/m^3)	Unclassifiable/Attainment	Unclassifiable/ Attainment
CO	(1971) **1-Hour** (35 ppm)	Unclassifiable/Attainment	N/A (attained)
	(1971) **8-Hour** (9 ppm)	Unclassifiable/Attainment	N/A (attained)
NO_2[g]	(2010) **1-Hour** (100 ppb)	Unclassifiable/Attainment	N/A (attained)
	(1971) **Annual** (0.053 ppm)	Unclassifiable/Attainment	N/A (attained)
SO_2[h]	(2010) **1-Hour** (75 ppb)	Designations Pending	N/A
	(1971) **24-Hour** (0.14 ppm) (1971) **Annual** (0.03 ppm)	Unclassifiable/Attainment	Unclassifiable/ Attainment

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 PM2.5 standard was revised on 1/15/13, effective 3/18/13, from 15 to 12 µg/m^3
f) The annual PM10 standard was revoked, effective 12/18/06; the 24-hour PM10 NAAQS attainment deadline was 12/31/2006; the Coachella Valley Attainment Re-designation Request and PM10 Maintenance Plan was postponed by U.S. EPA pending additional monitoring and analysis in the southeastern Coachella Valley
g) New 1-hour NO_2 NAAQS became effective 8/2/10; attainment designations 1/20/12; annual NO_2 NAAQS retained
h) The 1971 Annual and 24-hour SO_2 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_2 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[b]	Designation[a]	
		South Coast Air Basin	Coachella Valley
Ozone (O_3)	**1-Hour** (0.09 ppm)[c]	Nonattainment	Nonattainment
	8-Hour (0.070 ppm)[d]	Nonattainment	Nonattainment
PM2.5	**Annual** (12.0 µg/m^3)	Nonattainment	Attainment
PM10	**24-Hour** (50 µg/m^3)	Nonattainment	Nonattainment
	Annual (20 µg/m^3)	Nonattainment	Nonattainment
Lead (Pb)	**30-Day Average** (1.5 µg/m^3)	Attainment	Attainment
CO	**1-Hour** (20 ppm)	Attainment	Attainment
	8-Hour (9.0 ppm)	Attainment	Attainment
NO_2	**1-Hour** (0.18 ppm)	Attainment	Attainment
	Annual (0.030 ppm)	Attainment	Attainment
SO_2	**1-Hour** (0.25 ppm)	Attainment	Attainment
	24-Hour (0.04 ppm)	Attainment	Attainment
Sulfates	**24-Hour** (25 µg/m^3)	Attainment	Attainment
H_2S[c]	**1-Hour** (0.03 ppm)	Unclassified	Unclassified [c)]

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_2, NO_2, PM10 and PM2.5 are values not to be exceeded; lead, sulfates, and H_2S 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_2S 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_2S 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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