The Bowery

AIR QUALITY IMPACT ANALYSIS

CITY OF SANTA ANA

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LIST OF ABBREVIATED TERMS

(1)	Reference
µg/m^3	Microgram per Cubic Meter
AQIA	Air Quality Impact Analysis
AQMP	Air Quality Management Plan
BACM	Best Available Control Measures
BBAQMD	Bay Area Air Quality Management District
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CITY	City of Santa Ana
CO	Carbon Monoxide
DU	Dwelling Units
EIR	Environmental Impact Reports
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
GHG	Greenhouse Gas
HI	Hazard Index
I-15	Interstate 15
IBC	Irvine Business Complex
ITE	Institute of Transportation Engineers
LBS/DAY	Pounds Per Day
LST	Localized Significance Threshold
LST METHODOLOGY	Final Localized Significance Threshold Methodology
MCAS	Marine Corps Air Station
MM	Mitigation Measure
NAAQS	National Ambient Air Quality Standards
NO_2	Nitrogen Dioxide
NO_X	Nitrogen Oxides
O_3	Ozone

OPR	Office of Planning and Research
PAO	Professional and Administrative Office
Pb	Lead
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
PPM	Parts Per Million
Project	The Bowery
RECLAIM	Regional Clean Air Incentives Market
ROG	Reactive Organic Gases
RTP/SCS	Regional Transportation Plan/ Sustainable Communities Strategy
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
VPH	Vehicles Per Hour

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *The Bowery Air Quality Impact Analysis* are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	3.4	*Less Than Significant*	*n/a*
Localized Construction Emissions	3.6	*Less Than Significant*	*n/a*
Regional Operational Emissions	3.5	*Potentially Significant*	*Significant and Unavoidable*
Localized Operational Emissions	3.7	*n/a*	*n/a*
CO "Hot Spot" Analysis	3.8	*Less Than Significant*	*n/a*
Air Quality Management Plan	3.9	*Potentially Significant*	*Significant and Unavoidable*
Sensitive Receptors	3.10	*Less Than Significant*	*n/a*
Odors	3.11	*Less Than Significant*	*n/a*
Cumulative Impacts	3.12	*Potentially Significant*	*Significant and Unavoidable*

ES.2 STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES

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. South Coast Air Quality Management District (SCAQMD) Rules that are currently applicable during construction activity for this Project include but are not limited to Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). It should be noted that these Best Available Control Measures (BACMs) are not mitigation as

they are standard regulatory requirements. As such, credit for Rule 403 and Rule 1113 have been taken.

BACM AQ-1

The contractor shall adhere to applicable measures contained in Table 1 of Rule 403 including, but not limited to (2):

- 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 limited to 15 miles per hour or less.

BACM AQ-2

The following measures shall be incorporated into Project plans and specifications as implementation of SCAQMD Rule 1113 (3):

- Only "Low-Volatile Organic Compounds (VOC)" paints (no more than 50 gram/liter of VOC) consistent with SCAQMD Rule 1113 shall be used.

BACM AQ-3

The Project is required to comply with SCAQMD Rule 445, which prohibits the use of wood burning stoves and fireplaces in new development (4).

ES.3 CONSTRUCTION-SOURCE MITIGATION MEASURES

The Project would not result in an exceedance of any localized or regional construction-source emissions thresholds. As such, the Project would not result in any significant impacts and no mitigation measures are required.

ES.4 OPERATIONAL-SOURCE MITIGATION MEASURES

Project operational-source emissions will exceed the thresholds of significance for emissions of VOCs. It should be noted that the majority of VOC emissions are derived from consumer products and mobile activity. For analytical purposes, consumer products include cleaning supplies, kitchen aerosols, cosmetics and toiletries (5). As such, the Project cannot meaningfully control consumer products via mitigation thus, VOC emissions are considered significant and unavoidable as no feasible mitigation measure exists that would reduce this impact to less than significant levels. Additionally, operational-source VOC emissions would also be generated from the mobile activities from vehicles that cannot be mitigated. Neither the Project Applicant nor the Lead Agency (City) can substantively or materially affect reductions in Project mobile-source

emissions beyond the regulatory requirements and mitigation measures identified herein. Thus, these emissions are considered significant and unavoidable.

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1 INTRODUCTION

This report presents the results of the air quality impact analysis (AQIA) prepared by Urban Crossroads, Inc., for the proposed The Bowery (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 SCAQMD.

1.1 SITE LOCATION

The proposed The Bowery is located at 2300, 2310, and 2320 Red Hill Avenue in the in the City of Santa Ana, as shown on Exhibit 1-A. The site is located at the southwest corner of Red Hill Avenue and Warner Avenue. The Project site is located within the southeastern most portion of the City of Santa Ana. Areas across from Red Hill Avenue (to the east) are within the City of Tustin and are part of the former Tustin Marine Corps Air Station (MCAS), now known as the Tustin Legacy. Areas across from Dyer Road (0.5 mile south of the site) are in the City of Irvine, within the Irvine Business Complex (IBC).

The closest airport to the Project site is John Wayne Airport which is located approximately 2 miles south of the Project site. The site is currently developed with three partially occupied industrial buildings, parking areas, and vehicle circulation drives.

1.2 PROJECT DESCRIPTION

The Project would redevelop the Project site for new commercial and multi-family residential uses, as shown on Exhibit 1-B. The proposed Project would demolish the three existing buildings and remove all of the existing improvements, landscaping, and pavement. The Project would then construct a mixed-use development that would include the following uses:

- 1,150 DU Apartments
- 25.000 thousand square feet (TSF) High-Turnover Sit Down Restaurant
- 18.000 TSF Retail
- 25.000 TSF Quality Restaurant
- 5.000 TSF Fast Casual Restaurant
- 5.000 TSF Fast-Food Restaurant without Drive-Through Window
- 2.000 TSF Coffee/Donut Shop without Drive-Through Window

It is anticipated that the Project would be developed in a single phase with an anticipated Opening Year of 2022.

EXHIBIT 1-A: LOCATION MAP

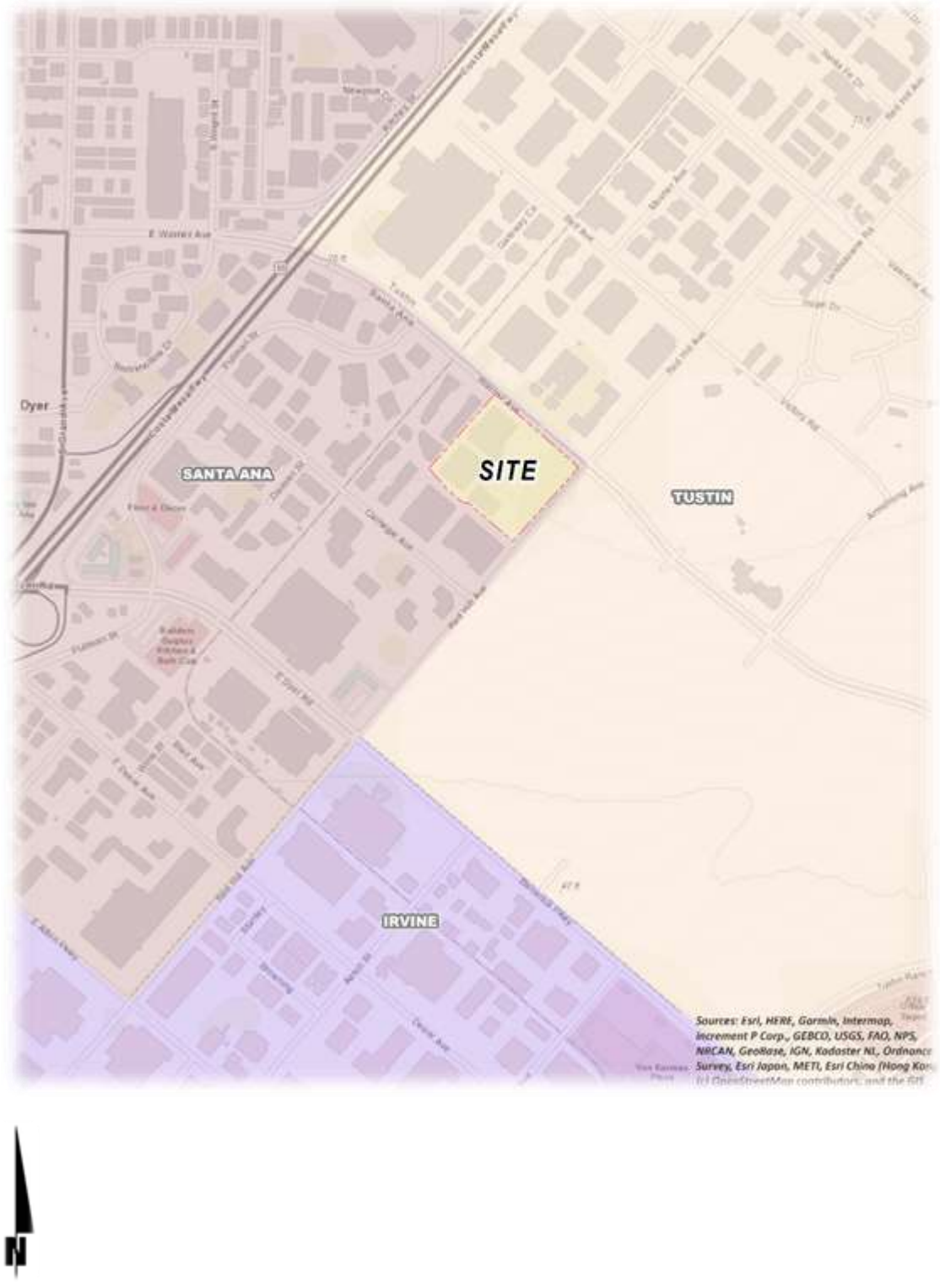
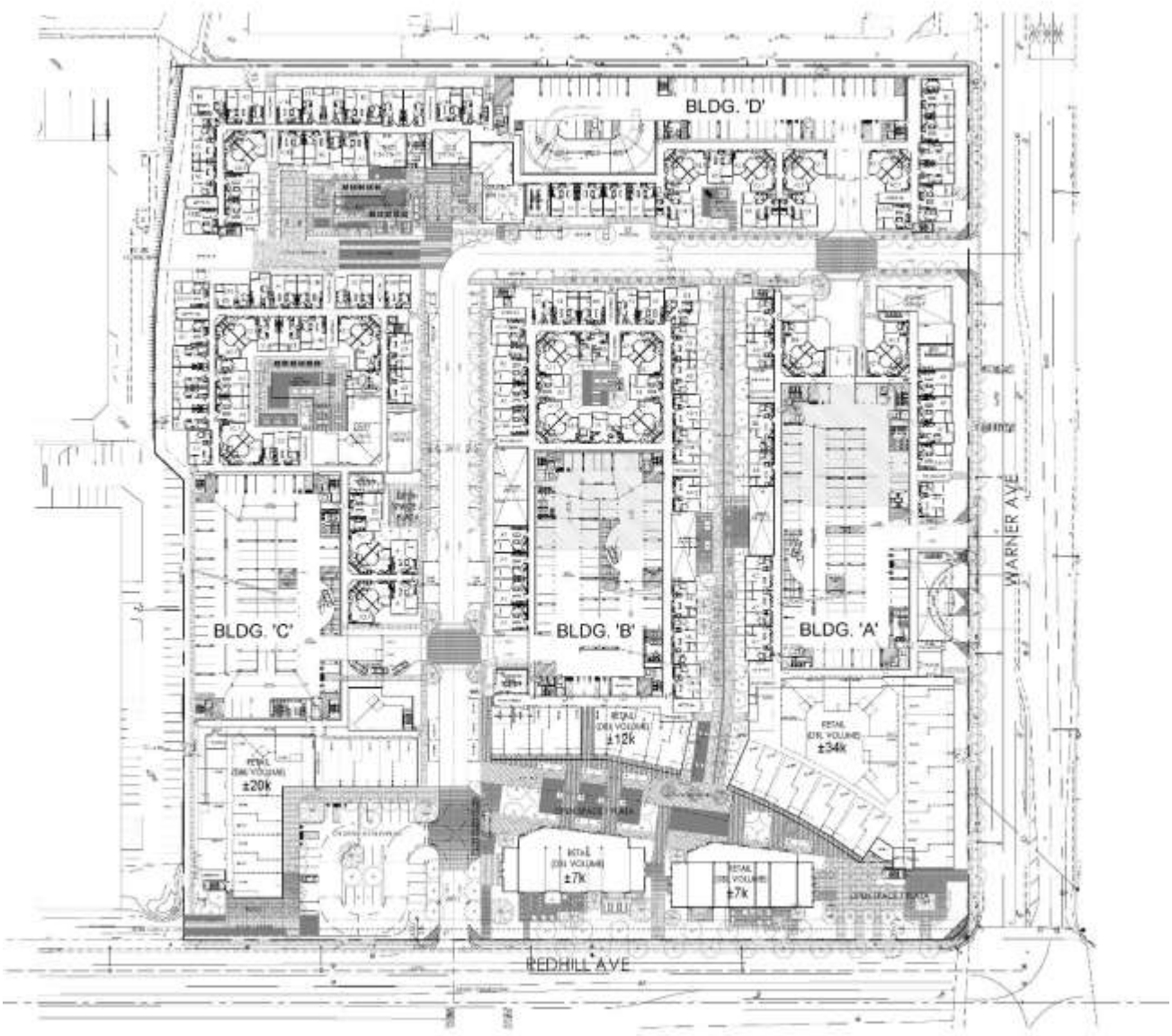


EXHIBIT 1-B: SITE PLAN



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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 (6). 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 previously stated, the Project site is located within the SCAB, 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 SCAB is bounded 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 bounded 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 bounded 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 14½ 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 NO_X 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 SCAB 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 onshore 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 CRITERIA POLLUTANTS

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 health effects are identified below (7):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
CO	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 SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	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.

Criteria Pollutant	Description	Sources	Health Effects
Sulfur Dioxide (SO_2)	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms sulfates (SO_4). Collectively, these pollutants are referred to as sulfur oxides (SO_X)	Coal or oil burning power plants and industries, refineries, diesel engines	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Animal studies suggest that despite SO_2 being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 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.

Criteria Pollutant	Description	Sources	Health Effects
NO_X	NO_X consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with oxygen (O_2). Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. Nitrogen oxides are typically created during combustion processes and are major contributors to smog formation and acid deposition. NO_2 is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO_2 than those indicated by regional monitoring station.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups. In animals, exposure to levels of NO_2 considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of ozone exposure increases when animals are exposed to a combination of ozone and NO_2.
Ozone (O_3)	O_3 is a highly reactive and unstable gas that is formed when VOCs and NO_X, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. Ozone concentrations are generally	Formed when reactive organic gases (ROG) and nitrogen oxides react in the presence of sunlight. ROG sources	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.

Criteria Pollutant	Description	Sources	Health Effects
	highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.	include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.	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 outdoor 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.
Particulate Matter	PM_{10} (Particulate Matter less than 10 microns): A major air pollutant consisting of tiny solid or liquid particles of soot, dust,	Sources of PM_{10} include road dust, windblown dust and construction. Also	A consistent correlation between elevated ambient fine particulate matter (PM_{10} and $PM_{2.5}$) levels and an

Criteria Pollutant	Description	Sources	Health Effects
	smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. 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. Additionally, it should be noted that PM_{10} is considered a criteria air pollutant. $PM_{2.5}$ (Particulate Matter less than 2.5 microns): A similar air pollutant to PM_{10} consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include sulfates formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X release from power plants, automobiles and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. $PM_{2.5}$ is a criteria air pollutant.	formed from other pollutants (acid rain, NO_X, SO_X, organics). Incomplete combustion of any fuel. $PM_{2.5}$ comes from fuel combustion in motor vehicles, equipment and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO_X, SO_X, organics).	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 lifespan, and an increased mortality from lung cancer. Daily fluctuations in $PM_{2.5}$ 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 PM_{10} and $PM_{2.5}$.
Volatile Organic Compounds (VOC)	VOCs 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	Organic chemicals are widely used as ingredients in household products. Paints, varnishes and wax all contain organic solvents, as do many cleaning, disinfecting,	Breathing VOCs can irritate the eyes, nose and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health

Criteria Pollutant	Description	Sources	Health Effects
	compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form ozone to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	cosmetic, degreasing and hobby products. Fuels are made up of organic chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored.	effects, though many have several.
ROG	Similar to VOC, ROGs 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 O_3, which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Lead is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of lead in the air was emissions from vehicles burning leaded gasoline. The major sources of lead emissions are ore and metals processing, particularly lead smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include	Metal smelters, resource recovery, leaded gasoline, deterioration of lead paint.	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

Criteria Pollutant	Description	Sources	Health Effects
	waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or lead acid battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of lead emissions.		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.
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (8).	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	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.

2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated 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 are shown in Table 2-2 (9).

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. At the time of this AQIA, the most recent state and federal standards were updated by CARB on May ,4 2016 and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ are not to be exceeded. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the Air District meets the standards set by the Environmental Protection Agency (EPA) or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by CARB. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (10).

TABLE 2-2: 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 ...

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TABLE 2-2: 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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2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: carbon monoxide, lead, ozone, particulate matter, nitrogen dioxide, and sulfur dioxide which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (11). On February 21, 2019, CARB posted the 2018 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (12). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O_3 – 1-hour standard	Nonattainment	--
O_3 – 8-hour standard	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO_2	Attainment	Unclassifiable/Attainment
SO_2	Unclassifiable/Attainment	Unclassifiable/Attainment
Pb[1]	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB
"-" = The national 1-hour O_3 standard was revoked effective June 15, 2005.

2.7 LOCAL AIR QUALITY

The Project site is located within the Source Receptor Area (SRA) 17. Within SRA 17, the SCAQMD Central Orange County monitoring station, located 10.19 miles northwest of the Project site, is the nearest long-term air quality monitoring station for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project site. Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ for 2016 through 2018 was obtained from the SCAQMD Air Quality Data Tables (13). Additionally, data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

[1] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2016-2018

POLLUTANT	STANDARD	YEAR		
		2016	2017	2018
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.103	0.090	0.112
Maximum Federal 8-Hour Concentration (ppm)		0.074	0.076	0.071
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	2	0	1
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	4	4	1
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	2.6	2.5	2.3
Maximum Federal 8-Hour Concentration	> 20 ppm	2.1	2.1	1.9
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.064	0.081	0.067
Annual Average		0.015	0.014	0.013
PM_{10}				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 150 $\mu g/m^3$	74	128	129
Annual Federal Arithmetic Mean ($\mu g/m^3$)		24.4	26.3	27.2
Number of Days Exceeding Federal 24-Hour Standard	> 150 $\mu g/m^3$	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 $\mu g/m^3$	3	17	13
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 35 $\mu g/m^3$	44.45	53.90	54.10
Annual Federal Arithmetic Mean ($\mu g/m^3$)	> 12 $\mu g/m^3$	9.47	11.39	11.02
Number of Days Exceeding Federal 24-Hour Standard	> 35 $\mu g/m^3$	1	6	3

$\mu g/m^3$ = Microgram per Cubic Meter
Source: Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ was obtained from SCAQMD Air Quality Data Tables.

2.8 REGULATORY BACKGROUND

2.8.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O_3, CO, NO_X, SO_2, PM_{10}, and Pb (14). The 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 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 (15). The CAA also mandates that states submit and implement 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) (16) (17). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

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 NO_X. NO_X is a collective term that includes all forms of nitrogen oxides (NO, NO_2, NO_3) which are emitted as byproducts of the combustion process.

2.8.2 CALIFORNIA REGULATIONS

California Air Resource Board. The CARB, which became part of the CalEPA 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. AB 2595 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 (18) (14).

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 (AQMPS) 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, NO_X, CO and PM_{10}. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than five percent per year under certain circumstances.

Title 24 Energy Efficiency Standards and California Green Building Standards. CCR Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2011, and is administered by the California Building Standards Commission. CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2019 California Green Building Code Standards that will be effective January 1, 2020. Local jurisdictions are permitted to adopt more stringent requirements, as state law provides methods for local enhancements. CALGreen recognizes that many jurisdictions have developed existing construction and demolition ordinances and defers to them as the ruling guidance provided, they establish a minimum 65 percent diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official.

Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and will become effective on January 1, 2020. As a conservative measure, the analysis herein assumes compliance with the 2016 Title 24 Standards and no additional reduction for compliance with the 2019 standards have been taken.

The 2019 Title 24 standards will result in less energy use, thereby reducing air pollutant emissions associated with energy consumption in the SCAB and across the State of California. For example, the 2019 Title 24 standards will require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, and update indoor and outdoor lighting requirements for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7 percent less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will use about 53 percent less energy than homes built under the 2016 standards. Nonresidential buildings (such as the Project) will use approximately 30 percent less energy due to lighting upgrade requirements (19).

Because the Project will be constructed after January 1, 2020, the 2019 CALGreen standards are applicable to the Project and require, among other items (20):

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
    - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of note more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

- Outdoor portable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gal/day (5.303.1.1 and 5.303.1.2).
- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

2.8.3 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 AQMPs to meet the state and federal ambient air quality standards (21). 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 3.9.

2.9 EXISTING PROJECT SITE AIR QUALITY CONDITIONS

As previous stated, the Project site is currently developed with three industrial buildings totaling approximately 212,121 square feet. The estimated operation-source emissions from the existing industrial uses are summarized on Table 2-5. Detailed operation model outputs are presented in Appendix 3.2.

TABLE 2-5: EMISSIONS FROM EXISTING INDUSTRIAL DEVELOPMENT

Existing Industrial Development Operational Activities	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer Scenario						
Total Maximum Daily Emissions	**11.14**	**143.55**	**48.79**	**0.45**	**18.81**	**6.63**
Winter Scenario						
Total Maximum Daily Emissions	**10.90**	**146.09**	**39.59**	**0.45**	**18.74**	**6.61**

Source: CalEEMod operational-source emissions for the existing industrial development are presented in Appendix 3.3.

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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 criteria used to determine the significance of potential Project-related air quality impacts are taken from the Initial Study Checklist in Appendix G of the State CEQA Guidelines (14 CCR §§15000, et seq.) as implemented by the City of Ontario. Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

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

The SCAQMD has developed regional significance thresholds for regulated pollutants, as summarized at Table 3-1 (35). The SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) 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 REGIONAL EMISSIONS THRESHOLDS

Regional Thresholds		
Pollutant	**Construction**	**Operations**
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day
Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, April 2019

3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ANALYZE AIR QUALITY

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

On October 17, 2017, the SCAQMD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the California Emissions Estimator Model™ (CalEEMod) v2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (24). 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 Appendices 3.1 and 3.2.

3.3.1 EMFAC2017 EMISSION RATES

On August 19, 2019, the EPA approved the 2017 version of the Emission Factor model (EMFAC) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (37). This AQIA utilizes summer, winter, and annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season.

3.3.2 LAND USES MODELED IN CALEEMOD

The Project is located on 14.58 acres. The total development is proposed to consist of the following:

- 1,150 DU Apartments
- 25.000 thousand square feet (TSF) High-Turnover Sit Down Restaurant
- 18.000 TSF Retail
- 25.000 TSF Quality Restaurant
- 5.000 TSF Fast Casual Restaurant
- 5.000 TSF Fast-Food Restaurant without Drive-Through Window
- 2.000 TSF Coffee/Donut Shop without Drive-Through Window

CalEEMod does not provide an extensive selection of land use subtype categories, land uses that most closely fit the Project will be utilized (26). For purposes of analysis, the following land uses were modeled consistent with *The Bowery Traffic Impact Analysis* (TIA)(EPD Solutions, Inc., 2019) (27):

- 1,150 DU Apartments Mid Rise
- 25.000 TSF High Turnover (Sit Down Restaurant)

- 18.000 TSF Regional Shopping Center
- 25.000 TSF Quality Restaurant
- 10.000 TSF Fast Food Restaurant with Drive Thru[2]
- 2.000 TSF Fast Food Restaurant without Drive Thru[3]
- 2,424 Space Enclosed Parking Structure with Elevator
- 174.555 TSF Other Non-Asphalt Surfaces[4]
- 166.981 TSF Other Asphalt Surfaces [5]

3.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

Demolition

Project site is currently developed with three existing industrial structures. The proposed Project would demolish the three existing buildings and remove all of the existing landscaping and pavement. The total three existing structures total 212,121 sf. In order to account for the demolition of existing landscaping and pavement, a 30% contingency was added to the existing industrial building square footage, as a conservative measure. As such, it is assumed that up to 275,757 sf of building square feet will be demolished.

Grading Activities

Dust is typically a major concern during 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.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of

[2] It should be noted that the both the Fast Casual Restaurant and Fast-Food Restaurant without Drive-Through uses were modeled as "Fast Food Restaurant with Drive Through". The trips modeled are consistent with the trips identified in the Trip Generation.

[3] It should be noted that the Coffee/Donut Shop without Drive Through Window land use category was modeled as "Fast Food Restaurant without Drive Through". The trips modeled are consistent with the trips identified in the Trip Generation.

[4] The User's Guide defines Other Non-Asphalt Surfaces as non-asphalt areas. For purposes of analysis, this category is used to model the 174,555 sf of exterior open space recreation areas.

[5] For purposes of analysis, the remaining 166,981 sf area of the Project site will be considered "Paved Area" and will be modeled as Other Asphalt Surfaces. These surfaces are defined as an asphalt area not used as a parking lot.

activity. Based on information provided by the Project applicant, earthwork activities are expected to balance on site and no import or export of soils would be required.

Construction Worker Vehicle Trips

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 CalEEMod defaults.

3.4.1 CONSTRUCTION DURATION

Construction is expected to commence in June 2020 and will last through September 2022. The construction schedule utilized in the analysis, shown in Table 3-2, 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.[6] The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines*. The duration of construction activity was based on information provided by the Project Applicant and the 2022 opening year.

TABLE 3-2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	6/1/2020	7/10/2020	30
Site Preparation	7/11/2020	9/11/2020	45
Grading	9/12/2020	10/23/2020	30
Building Construction	10/24/2020	6/3/2022	420
Paving	6/4/2022	8/5/2022	45
Architectural Coating	1/1/2022	9/9/2022	180

Source: Construction activity is based information provided by the Project Applicant and the 2022 opening year.

3.4.2 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment was generally based on CalEEMod 2016.3.2 defaults. A detailed summary of construction equipment assumptions by phase is provided at Table 3-3.

[6] As shown in the CalEEMod User's Guide Version 2016.3.2, Section 4.3 "Offroad Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Activity	Equipment	Amount	Hours Per Day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Building Construction	Cranes	1	8
	Crawler Tractors	3	8
	Forklifts	3	8
	Generator Sets	1	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Source: In order to account for fugitive dust emissions associated with Site Preparation and Grading activities, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes.

3.4.1 CONSTRUCTION EMISSIONS SUMMARY

CalEEMod calculates maximum daily emissions for summer and winter periods. The estimated maximum daily construction emissions 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 will not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant.

TABLE 3-4 OVERALL CONSTRUCTION EMISSIONS SUMMARY (WITHOUT MITIGATION)

Year	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
2020	9.90	76.66	74.43	0.28	19.94	6.65
2021	9.14	69.97	69.95	0.28	19.65	6.36
2022	57.57	66.14	76.68	0.30	22.72	7.13
Winter						
2020	10.66	76.98	71.87	0.27	19.94	6.65
2021	9.86	70.20	67.51	0.27	19.65	6.36
2022	58.39	66.38	73.73	0.29	22.72	7.13
Maximum Daily Emissions	**58.39**	**76.98**	**76.68**	**0.30**	**22.72**	**7.13**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

lbs/day – Pounds Per Day
Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1.

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions

3.5.1 AREA SOURCE EMISSIONS

Architectural Coatings

Over a period of time the building that is 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 CalEEMod.

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 CalEEMod.

Hearths/Fireplaces

The emissions associated with use of hearths/fireplaces were calculated based on assumptions provided in the CalEEMod model. The Project is required to comply with SCAQMD Rule 445, which prohibits the use of wood burning stoves and fireplaces in new development. In order to account for the requirements of this Rule, the unmitigated CalEEMod model estimates were adjusted to remove wood burning stoves and fireplaces. As the project is required to comply with SCAQMD Rule 445, the removal of wood burning stoves and fireplaces is not considered "mitigation" although it must be identified as such in CalEEMod in order to treat the case appropriately.

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 CalEEMod.

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 CalEEMod.

Title 24 Energy Efficiency Standards

California's Energy Efficiency Standards for Residential and Nonresidential Buildings was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. As a conservative measure, the analysis herein assumes compliance with the 2016 Title 24 Standards and no additional reduction for compliance with the 2019 standards have been taken.

3.5.3 MOBILE SOURCE EMISSIONS

Project mobile source air quality emissions are primarily dependent on overall daily vehicle trip generation. Trip characteristics available from the TIA report were utilized in this analysis (27).

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 break and tire wear particulates. The emissions estimates for travel on paved roads were calculated using CalEEMod.

3.5.5 OPERATIONAL EMISSIONS SUMMARY

As previously stated, CalEEMod calculates maximum daily emissions for summer and winter periods. As such, operational activities for summer and winter scenarios are presented in Table 3-5. Detailed operational model outputs are presented in Appendix 3.2. As indicated, Project operational-source emissions will exceed the thresholds of significance for emissions of VOCs. It is important to note that the majority of VOC emissions are derived from consumer products and mobile activity. For analytical purposes, consumer products include cleaning supplies, kitchen aerosols, cosmetics and toiletries (5). As such, the Project cannot meaningfully control consumer products via mitigation thus, VOC emissions are considered significant and unavoidable as no feasible mitigation measure exists that would reduce this impact to less than significant levels. Additionally, operational-source VOC emissions would also be generated from the mobile activities from vehicles that cannot be mitigated. Neither the Project Applicant nor the Lead Agency (City) can substantively or materially affect reductions in Project mobile-source emissions beyond the regulatory requirements and mitigation measures identified herein. Thus, these emissions are considered significant and unavoidable.

TABLE 3-5: SUMMARY OF PEAK OPERATIONAL EMISSIONS (1 OF 2)

Operational Activities – Summer Scenario	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area Source	35.19	20.17	103.39	0.13	2.07	2.07
Energy Source	0.86	7.65	5.05	0.05	0.60	0.60
Mobile Source	38.31	68.83	280.70	0.75	73.61	20.13
Total Project Daily Emissions	**74.36**	**96.65**	**389.14**	**0.93**	**76.27**	**22.80**
Existing Emissions	***11.14***	***143.55***	***48.79***	***0.45***	***18.81***	***6.63***
Net Emissions (Project – Existing)	63.23	-0.52	-0.42	-3.12e-03	-0.04	-0.04
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**

TABLE 3-5: SUMMARY OF PEAK OPERATIONAL EMISSIONS (2 OF 2)

Operational Activities – Winter Scenario	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area Source	35.19	20.17	103.39	0.13	2.07	2.07
Energy Source	0.86	7.65	5.05	0.05	0.60	0.60
Mobile Source	40.17	70.98	278.52	0.73	73.60	20.13
Total Project Daily Emissions	**76.23**	**98.80**	**386.96**	**0.90**	**76.26**	**22.80**
Existing Emissions	***10.90***	***146.09***	***39.59***	***0.45***	***18.74***	***6.61***
Net Emissions (Project – Existing)	65.33	-0.52	-0.42	0.00	-0.04	-0.04
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 3.2.

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* (LST Methodology) (28). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the NAAQS and CAAQS. Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The significance of localized emissions impacts depends on whether ambient levels in the vicinity of any given project are above or below State standards. In the case of CO and NO_2, if ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a state or federal standard, then project emissions are considered significant if they increase ambient concentrations by a measurable amount. This would apply to PM_{10} and $PM_{2.5}$; both of which are non-attainment pollutants.

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4[7]. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address

[7] 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."

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 *LST Methodology* (29).

APPLICABILITY OF LSTS FOR THE PROJECT

For this Project, the appropriate SRA for the LST analysis is Central Orange County (SRA 17). LSTs apply to CO, NO_2, PM_{10}, and $PM_{2.5}$. 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 (30) is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod.
- If the total acreage disturbed is less than or equal to five acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in pounds per day that can be compared to CalEEMod outputs.
- If the total acreage disturbed is greater than five acres per day, then LST impacts are appropriately evaluated through dispersion modeling.

EMISSIONS CONSIDERED

SCAQMD's Methodology clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (28)." Therefore, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

MAXIMUM DAILY DISTURBED ACREAGE

The "acres disturbed" for analytical purposes are based on specific equipment type for each subcategory of construction activity and the estimated maximum area a given piece of equipment can pass over in an 8-hour workday (as shown on Table 3-6). The equipment-specific disturbance rates were obtained from the CalEEMod user's guide, *Appendix A: Calculation Details for CalEEMod* (October 2017). It should be noted that the disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day. Based on Table 3-6, the Project's construction activities could actively disturb approximately 1.0 acre per day during demolition, 3.5 acres per day during site preparation, and 4.0 acres per day during grading activities.

TABLE 3-6: MAXIMUM DAILY DISTURBED-ACREAGE

Construction Phase	Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Demolition	Rubber Tired Dozers	2	0.5	8	1.0
Total acres disturbed per day during Demolition					1.0
Site Preparation	Crawler Tractors	4	0.5	8	2.0
	Rubber Tired Dozers	3	0.5	8	1.5
Total acres disturbed per day during Site Preparation					3.5
Grading	Crawler Tractors	2	0.5	8	1.0
	Graders	1	0.5	8	0.5
	Rubber Tired Dozers	1	0.5	8	0.5
	Scrapers	2	1	8	2.0
Total acres disturbed per day during Grading					4.0

Source: Maximum daily disturbed acreage based on equipment list presented in Appendix 3.1.

Sensitive Receptors

As previously stated, LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities.

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". These structures typically include residences, hotels, hospitals, etc. as they are also known to be locations where an individual can remain for 24 hours. Consistent with the *LST Methodology*, the nearest land use where an individual could remain for 24 hours to the Project site (in this case the nearest residential land use) has been used to determine construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$, since PM_{10} and $PM_{2.5}$ thresholds are based on a 24 hour averaging time.

Commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for eight hours or less. The *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO_2 and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours* (28)." Consistent with the *LST Methodology*, the nearest industrial/commercial use to the Project site is used to determine construction and operational LST air impacts for emissions of NO_2 and CO

Project-related Sensitive Receptors

Sensitive receptors in the vicinity of the Project site are illustrated at Exhibit 3-A and include residential uses as described below. Localized air quality impacts were evaluated at sensitive receptor land uses nearest the Project site. To assess the stationary source operational and construction air impacts, the following five sensitive receptor locations, as shown on Exhibit 3-A, were identified.

R1: Located approximately 213 feet northeast of the Project site, R1 represents the Harvest Time Ministries at 1415 East Warner Avenue.

R2: Located approximately 656 feet east of the Project site, R2 represents the U.S. Armed Forces Reserve Center at 15992 Red Hill Avenue.

R3: Location R3 represents the existing residential homes located roughly 72 feet southwest of OnTrac and Brasstech Office located on corner of Carnegie Avenue and Red Hill Avenue.

R4: Location R4 represents the Carnegie Square Business Park located roughly 96 feet west of the Project site.

R5: Location R5 represents the Sirco Irvine Business Park located roughly 43 feet northwest of the Project site.

R6: Location R5 represents the Candlewood Suites hotel located at 2600 Red Hill Avenue, roughly 1,471 feet southwest of the Project site.

This AQIA analyzes localized construction and operational emissions impacts at the nearest sensitive receptors. The nearest receptor where an individual can stay for a 24-hour period is represented by location R6. Location R6 is roughly 1,471 feet/ 448 meters south of the Project site. As such, the 440-meter distance will be used to evaluate construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$. For evaluation of localized NO_2 and CO impacts, the nearest receptor location where an individual can remain onsite for an 8-hour period is the Sirco Irvine Business Park, located 43 feet/ 13 meters northwest of the Project site. It should be noted that the *LST Methodology* explicitly states that "*It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters* (28)." As such, the 25-meter distance will be used to evaluate construction and operational air quality impacts air quality impacts for emissions of NO_2 and CO.

EXHIBIT 3-A: SENSITIVE RECEPTOR LOCATIONS



LEGEND:

N

Receptor Locations

Distance from receptor to Project site boundary (in feet)

LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

Since the total acreage disturbed is less than five acres per day for the site preparation phase and the grading phase, the SCAQMD's screening look-up tables are utilized in determining impacts. It should be noted that since the look-up tables identifies thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized, consistent with SCAQMD guidance, in order to interpolate the threshold values for the other disturbed acreage and distances not identified in the look-up tables.

TABLE 3-7: MAXIMUM DAILY LOCALIZED EMISSIONS THRESHOLDS

Pollutant	Construction	Operations
Localized Thresholds		
NO_X	81 lbs/day (Demolition)	N/A
	149 lbs/day (Site Preparation)	
	160 lbs/day (Grading)	
CO	485 lbs/day (Demolition)	N/A
	984 lbs/day (Site Preparation)	
	1,074 lbs/day (Grading)	
PM_{10}	141 lbs/day (Demolition)	N/A
	160 lbs/day (Site Preparation)	
	163 lbs/day (Grading)	
$PM_{2.5}$	74 lbs/day (Demolition)	N/A
	88 lbs/day (Site Preparation)	
	91 lbs/day (Grading)	

CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

Table 3-8 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Without mitigation, localized construction emissions would not exceed the applicable SCAQMD LSTs for emissions of any criteria pollutant. Outputs from the model runs for construction LSTs are provided in Appendix 3.1.

TABLE 3-8 LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION, 1 OF 2)

On-Site Demolition Emissions	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	33.20	21.75	5.19	2.08
SCAQMD Localized Threshold	81	485	141	74
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

TABLE 3-8: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION, 2 OF 2)

On-Site Site Preparation Emissions	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	63.79	22.39	11.28	6.59
SCAQMD Localized Threshold	149	984	160	88
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
On-Site Grading Emissions	**Emissions (lbs/day)**			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	60.88	32.40	6.47	3.74
SCAQMD Localized Threshold	160	1,079	163	91
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1.

3.7 LOCALIZED SIGNIFICANCE – LONG-TERM OPERATIONAL ACTIVITY

The development of the proposed project is located on 14.58 acres. As previously stated, the total development is proposed to consist of 1,150 DU Apartments, 25.000 TSF High-Turnover Sit Down Restaurant, 18.000 TSF Retail, 25.000 TSF Quality Restaurant, 5.000 TSF Fast Casual Restaurant, 5.000 TSF Fast-Food Restaurant without Drive-Through Window, 2.000 TSF Coffee/Donut Shop without Drive-Through Window. According to SCAQMD LST methodology, LSTs would apply to the operational phase of a proposed project, if the project includes stationary sources, or attracts mobile sources that may spend long periods queuing and idling at the site (e.g., transfer facilities and warehouse buildings). The proposed project does not include such uses, and thus, due to the lack of significant stationary source emissions, no long-term localized significance threshold analysis is needed.

3.8 CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific 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 CAAQS and NAAQS for CO (31).

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 2-3. Also, CO concentrations in the Project vicinity have steadily declined, as indicated by historical emissions data presented previously at Table 2-4. 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 3-9.

TABLE 3-9: CO MODEL RESULTS

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire/Veteran	4.6	3.5	3.7
Sunset/Highland	4	4.5	3.5
La Cienega/Century	3.7	3.1	5.2
Long Beach/Imperial	3	3.1	8.4

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations
Note: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

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 (32). 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 (vph) where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (33).

The 2003 AQMP, and as previously shown in Table 3-11, 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).[8]

Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 3-10. The busiest intersection evaluated for AM traffic volumes was at Wilshire Blvd. and Veteran Ave., which has an AM traffic volume of approximately 8,062 vehicles per hour. Alternatively, the busiest intersection for PM traffic volumes was at La Cienega Boulevard and Century Boulevard, which has a PM traffic volume of 8,674 vph (32). As shown on Table 3-11, the highest trips on a segment of road for the Project is 9,378 vph on Jamboree Road and Barranca Parkway (27). As such, Project-related traffic volumes are less than the traffic volumes identified in the 2003 AQMP.

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. 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 3-10: TRAFFIC VOLUMES

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

Source: 2003 AQMP

TABLE 3-11: OPENING YEAR WITH PROJECT TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
MacArthur Boulevard/Main Street	3,008/2,744	1,150/1,217	1,421/1,523	881/1,703	6,460/7,187
Jamboree Road/Barranca Parkway	1,229/3,754	5,243/2,105	910/2,101	932/1,418	8,314/9,378
Jamboree Road/Alton Parkway	1,536/3,813	3,589/1,776	460/1,359	942/822	6,527/7,770
Jamboree Road/Main Street	2,266/3,587	3,369/2,154	680/2,109	1,336/1,247	7,651/9,097

Source: *The Bowery Traffic Impact Analysis* (EPD Solutions, Inc., 2019).

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

3.9 AIR QUALITY MANAGEMENT PLANNING

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the 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 SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (34). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 Regional Transportation Plan/ Sustainable Communities Strategy (RTP/SCS), a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (21). The Project's consistency with the AQMP will be determined using the 2016 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the SCAQMD's CEQA Air Quality Handbook (1993) (35). 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.

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

Construction Impacts – Consistency Criterion 1

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded. The Project would not exceed the applicable regional significance thresholds or LST thresholds for construction activity.

Operational Impacts – Consistency Criterion 1

The Project regional analysis demonstrates that Project operational-source emissions has the potential to exceed applicable thresholds for VOCs. As such, Project operational-source emissions would therefore result in or cause violations of the CAAQS and NAAQS.

On the basis of the preceding discussion, the Project is determined to be inconsistent with the first criterion.

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

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 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 Santa Ana General Plan is considered to be consistent with the AQMP***.***

Construction Impacts – Consistency Criterion 2

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 – Consistency Criterion 2

The City of Santa Ana General Plan designates the Project site as Professional and Administration Office (PAO). The PAO designation applies to those areas where professional and/or administrative offices are predominant, or where such development is being encouraged (36). As previously stated, the total development is proposed to consist of 1,150 DU Apartments, 25.000 TSF High-Turnover Sit Down Restaurant, 18.000 TSF Retail, 25.000 TSF Quality Restaurant, 5.000 TSF Fast Casual Restaurant, 5.000 TSF Fast-Food Restaurant without Drive-Through Window, 2.000 TSF Coffee/Donut Shop without Drive-Through Window. The uses proposed by the Project are inconsistent with the City's land use designation.

On the basis of the preceding discussion, the Project is determined to be inconsistent with the second criterion.

AQMP Consistency Conclusion

The Project would have the potential to result in or cause NAAQS or CAAQS violations. The Project operational-source emissions would exceed the regional significance thresholds for emissions of VOCs. As previously stated, the majority of VOC emissions are derived from consumer products and mobile activity. Since no feasible mitigation measures exist that would reduce VOCs emissions to levels that are less-than-significant, these emissions are considered significant and unavoidable. Additionally, the Project would exceed the growth intensities allowed within the

current land designation and zoning designation. The Project is therefore considered to be inconsistent with the AQMP.

3.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

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

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

3.11 ODORS

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

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

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations. The proposed Project would also be required to comply

with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (37).

3.12 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O_3 PM_{10}, and $PM_{2.5}$ while the NAAQS designates the Project site as nonattainment for O_3 and $PM_{2.5}$.

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* (38). 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 Environmental Impact Report (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.

Construction Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

Operational Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project operational-source air pollutant emissions would result in exceedances of regional thresholds for emissions of VOC. As previously stated, the majority of VOC emissions are derived from consumer products and mobile activity. For analytical purposes, consumer products include cleaning supplies, kitchen aerosols, cosmetics and toiletries (5). As such, the Project cannot meaningfully control consumer products via mitigation thus, VOC emissions are considered significant and unavoidable as no feasible mitigation measure exists that would reduce this impact to less than significant levels. Additionally, operational-source VOC emissions would also be generated from the mobile activities from vehicles that cannot be mitigated. Neither the Project Applicant nor the Lead Agency (City) can substantively or materially affect reductions in Project mobile-source emissions beyond the regulatory requirements and mitigation measures identified herein. Thus, these emissions are considered significant and unavoidable.

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5 CERTIFICATIONS

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

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Master of Science in Environmental Studies
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PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
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PROFESSIONAL CERTIFICATIONS

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 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

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APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

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APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

Ambient Air Quality Standards

(Updated 5/4/16)

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/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

See footnotes on next page ...

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 CARB to give equivalent results at or near the level of the air quality standard may be used.

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

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

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

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ 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 CARB 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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Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment	A
Nonattainment	N
Nonattainment-Transitional	NA-T
Unclassified	U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

FIGURE 1


2018
Area Designations for State
Ambient Air Quality Standards
OZONE
N
0
50
100
200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Humboldt
Trinity
Tehema
SACRAMENTO VALLEY
SUTTER BUTTES
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
El Dorado
Yolo
Alpine
Sonoma
Napa
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
San Joaquin
Contra Costa
Tuolumne
Mono
San Francisco
Alameda
Mariposa
GREAT BASIN VALLEYS
San Mateo
Stanislaus
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Orange
Riverside
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
SALTON SEA
Unclassified
Attainment
Nonattainment-Transitional
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 1

California Ambient Air Quality Standards
Area Designations for Ozone [1]

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTHEAST PLATEAU AIR BASIN				X
Alpine County			X		SACRAMENTO VALLEY AIR BASIN				
Inyo County	X				Colusa and Glenn Counties				X
Mono County	X				Sutter/Yuba Counties				
LAKE COUNTY AIR BASIN				X	Sutter Buttes	X			
LAKE TAHOE AIR BASIN				X	Remainder of Sutter County				X
MOJAVE DESERT AIR BASIN	X				Yuba County				X
MOUNTAIN COUNTIES AIR BASIN					Yolo/Solano Counties		X		
Amador County	X				Remainder of Air Basin	X			
Calaveras County	X				SALTON SEA AIR BASIN	X			
El Dorado County (portion)	X				SAN DIEGO AIR BASIN	X			
Mariposa County	X				SAN FRANCISCO BAY AREA AIR BASIN	X			
Nevada County	X				SAN JOAQUIN VALLEY AIR BASIN	X			
Placer County (portion)	X				SOUTH CENTRAL COAST AIR BASIN				
Plumas County			X		San Luis Obispo County	X			
Sierra County			X		Santa Barbara County		X		
Tuolumne County	X				Ventura County	X			
NORTH CENTRAL COAST AIR BASIN		X			SOUTH COAST AIR BASIN	X			
NORTH COAST AIR BASIN				X					

(1) AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

FIGURE 2

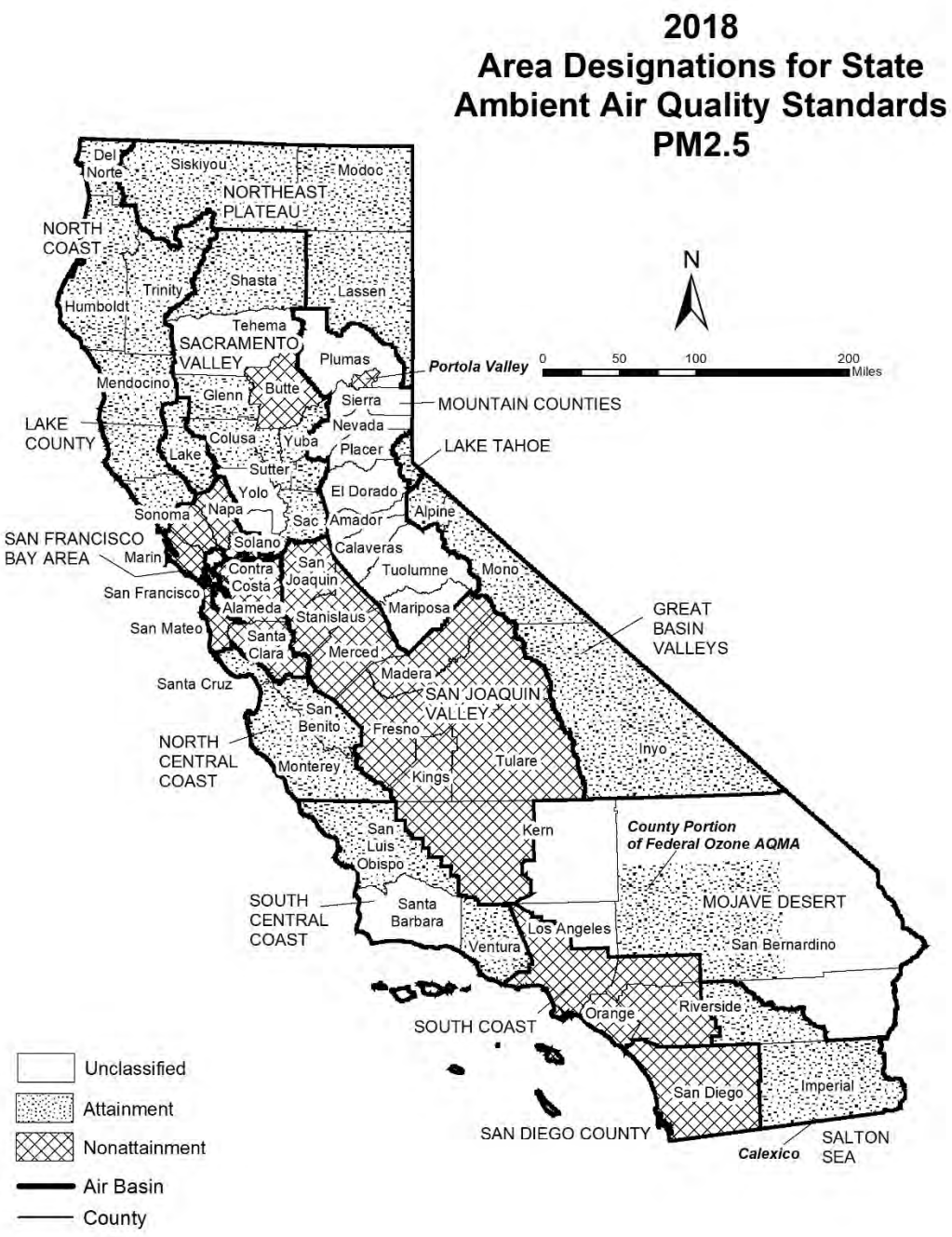

2018
Area Designations for State
Ambient Air Quality Standards
PM10
N
0
50
100
200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
LAKE COUNTY
Colusa
Yuba
Nevada
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
Yosemite NP
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
San Francisco
Alameda
Stanislaus
Mariposa
GREAT BASIN VALLEYS
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Monterey
Tulare
Inyo
Kings
San Luis Obispo
Kern
MOJAVE DESERT
Santa Barbara
Los Angeles
San Bernardino
SOUTH CENTRAL COAST
Ventura
Orange
Riverside
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
SALTON SEA
Unclassified
Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 2

California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM10)

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN	X			NORTH CENTRAL COAST AIR BASIN	X		
LAKE COUNTY AIR BASIN			X	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	X			Del Norte, Sonoma (portion) and Trinity Counties			X
MOJAVE DESERT AIR BASIN	X			Remainder of Air Basin	X		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		X		Siskiyou County			X
Calaveras County	X			Remainder of Air Basin		X	
El Dorado County (portion)	X			SACRAMENTO VALLEY AIR BASIN			
Mariposa County				Shasta County			X
- Yosemite National Park	X			Remainder of Air Basin	X		
- Remainder of County		X		SALTON SEA AIR BASIN	X		
Nevada County	X			SAN DIEGO AIR BASIN	X		
Placer County (portion)	X			SAN FRANCISCO BAY AREA AIR BASIN	X		
Plumas County	X			SAN JOAQUIN VALLEY AIR BASIN	X		
Sierra County	X			SOUTH CENTRAL COAST AIR BASIN	X		
Tuolumne County		X		SOUTH COAST AIR BASIN	X		

FIGURE 3



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 3

California Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)

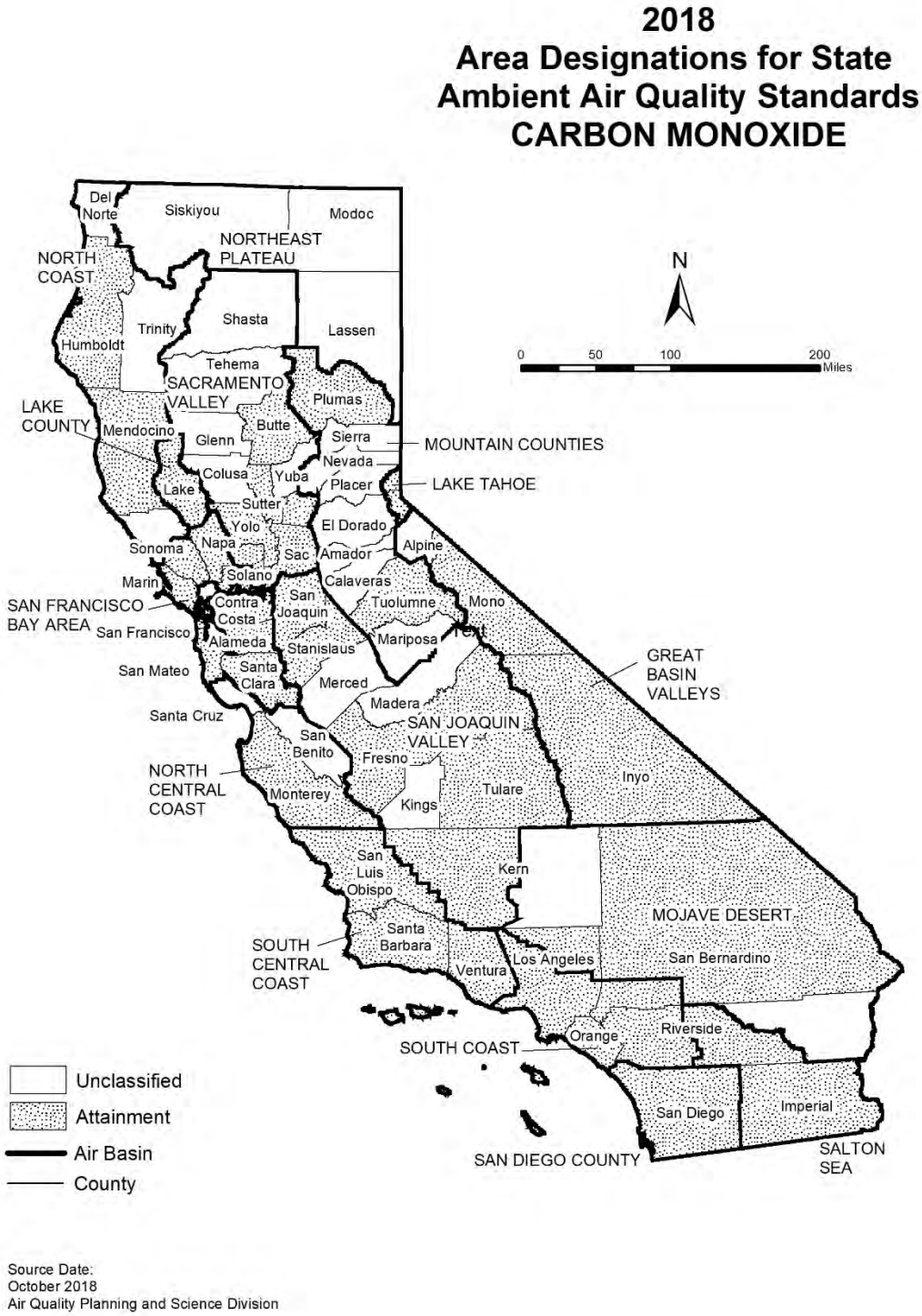
	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			X	Imperial County			
LAKE TAHOE AIR BASIN			X	- City of Calexico (3)	X		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			X
San Bernardino County				SAN DIEGO AIR BASIN	X		
- County portion of federal Southeast Desert Modified AQMA for Ozone (1)			X	SAN FRANCISCO BAY AREA AIR BASIN	X		
				SAN JOAQUIN VALLEY AIR BASIN	X		
Remainder of Air Basin		X		SOUTH CENTRAL COAST AIR BASIN			
MOUNTAIN COUNTIES AIR BASIN				San Luis Obispo County			X
Plumas County				Santa Barbara County		X	
- Portola Valley (2)	X			Ventura County			X
Remainder of Air Basin		X		SOUTH COAST AIR BASIN	X		
NORTH CENTRAL COAST AIR BASIN			X				
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN							
Butte County	X						
Colusa County			X				
Glenn County			X				
Placer County (portion)			X				
Sacramento County			X				
Shasta County			X				
Sutter and Yuba Counties			X				
Remainder of Air Basin		X					

(1) California Code of Regulations, title 17, section 60200(b)

(2) California Code of Regulations, title 17, section 60200(c)

(3) California Code of Regulations, title 17, section 60200(a)

FIGURE 4



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 4

California Ambient Air Quality Standards
Area Designation for Carbon Monoxide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			X		Butte County				X
Inyo County				X	Colusa County			X	
Mono County				X	Glenn County			X	
LAKE COUNTY AIR BASIN				X	Placer County (portion)				X
LAKE TAHOE AIR BASIN				X	Sacramento County				X
MOJAVE DESERT AIR BASIN					Shasta County			X	
Kern County (portion)			X		Solano County (portion)				X
Los Angeles County (portion)				X	Sutter County				X
Riverside County (portion)			X		Tehama County			X	
San Bernardino County (portion)				X	Yolo County				X
MOUNTAIN COUNTIES AIR BASIN					Yuba County			X	
Amador County			X		SALTON SEA AIR BASIN				X
Calaveras County			X		SAN DIEGO AIR BASIN				X
El Dorado County (portion)			X		SAN FRANCISCO BAY AREA AIR BASIN				X
Mariposa County			X		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			X		Fresno County				X
Placer County (portion)			X		Kern County (portion)				X
Plumas County				X	Kings County			X	
Sierra County			X		Madera County			X	
Tuolumne County				X	Merced County			X	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				X
Monterey County				X	Stanislaus County				X
San Benito County			X		Tulare County				X
Santa Cruz County			X		SOUTH CENTRAL COAST AIR BASIN				X
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				X
Del Norte County			X						
Humboldt County				X					
Mendocino County				X					
Sonoma County (portion)			X						
Trinity County			X						
NORTHEAST PLATEAU AIR BASIN			X						

* The area designated for carbon monoxide is a county or portion of a county

FIGURE 5



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 5

California Ambient Air Quality Standards
Area Designation for Nitrogen Dioxide

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			
NORTHEAST PLATEAU AIR BASIN			X	CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
				Remainder of Air Basin			X

FIGURE 6



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 6

California Ambient Air Quality Standards
Area Designation for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SALTON SEA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN DIEGO AIR BASIN		X
MOJAVE DESERT AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X			

* The area designated for sulfur dioxide is a county or portion of a county

FIGURE 7



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 7

California Ambient Air Quality Standards
Area Designation for Sulfates

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X				

FIGURE 8



Source Date:
October 2018
Air Quality Planning and Science Division

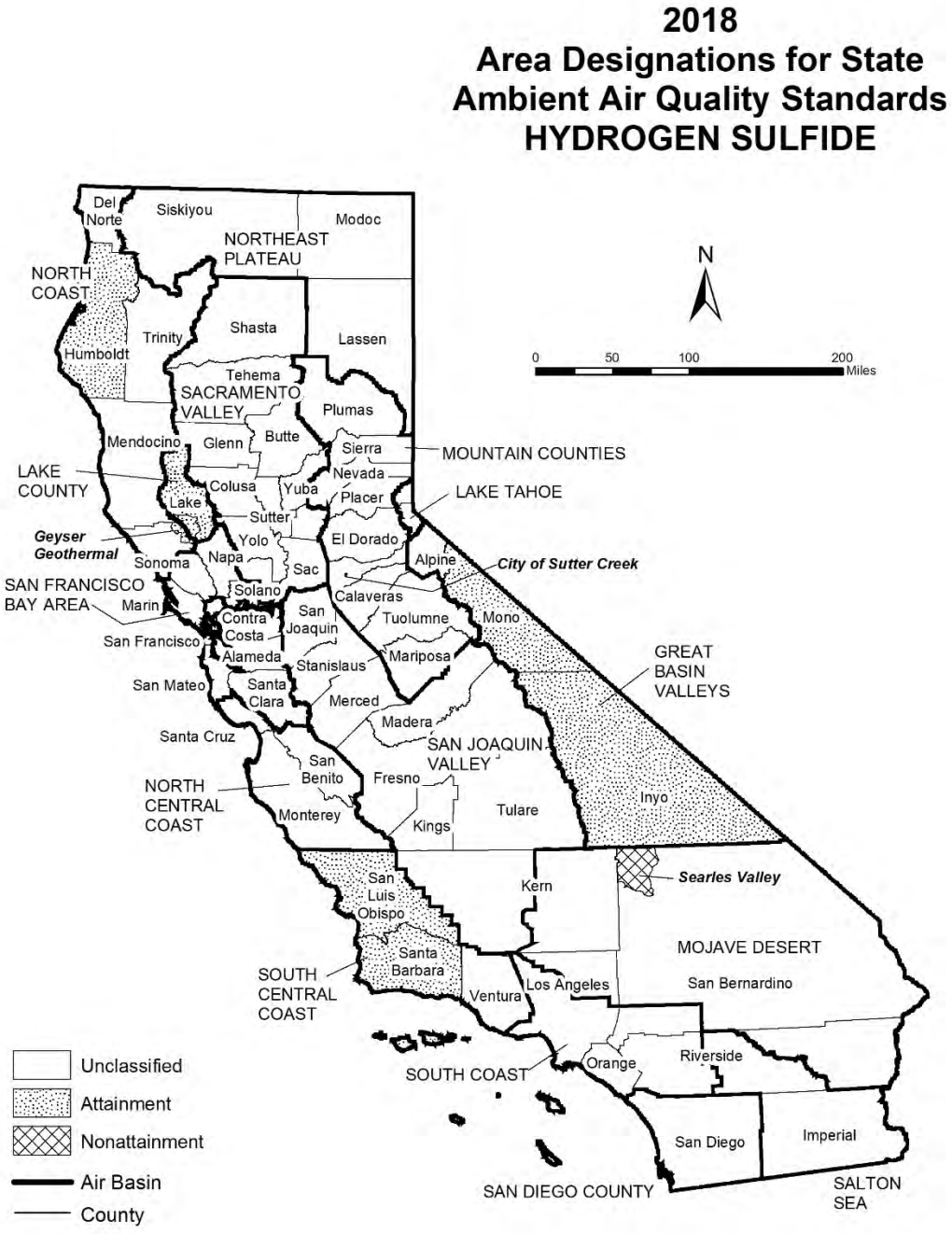
TABLE 8

California Ambient Air Quality Standards
Area Designations for Lead (particulate)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SAN DIEGO AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN			X				

* The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

FIGURE 9



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 9

California Ambient Air Quality Standards
Area Designation for Hydrogen Sulfide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			X	
Alpine County			X		NORTH COAST AIR BASIN				
Inyo County				X	Del Norte County			X	
Mono County				X	Humboldt County				X
LAKE COUNTY AIR BASIN				X	Mendocino County			X	
LAKE TAHOE AIR BASIN			X		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				X
Kern County (portion)			X		- Remainder of County			X	
Los Angeles County (portion)			X		Trinity County			X	
Riverside County (portion)			X		NORTHEAST PLATEAU AIR BASIN			X	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			X	
- Searles Valley Planning Area (1)	X				SALTON SEA AIR BASIN			X	
- Remainder of County			X		SAN DIEGO AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			X	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			X	
- City of Sutter Creek	X				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			X		San Luis Obispo County				X
Calaveras County			X		Santa Barbara County				X
El Dorado County (portion)			X		Ventura County			X	
Mariposa County			X		SOUTH COAST AIR BASIN			X	
Nevada County			X						
Placer County (portion)			X						
Plumas County			X						
Sierra County			X						
Tuolumne County			X						

* The area designated for hydrogen sulfide is a county or portion of a county

(1) 52 Federal Register 29384 (August 7, 1987)

(2) California Code of Regulations, title 17, section 60200(d)

FIGURE 10



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 10

California Ambient Air Quality Standards
Area Designation for Visibility Reducing Particles

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X		SACRAMENTO VALLEY AIR BASIN			X	
LAKE COUNTY AIR BASIN				X	SALTON SEA AIR BASIN			X	
LAKE TAHOE AIR BASIN			X		SAN DIEGO AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X		SAN FRANCISCO BAY AREA AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X		SAN JOAQUIN VALLEY AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X		SOUTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X		SOUTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X						

Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

https://www.epa.gov/green-book

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

https://www.epa.gov/criteria-air-pollutants

Designation Categories

Suspended Particulate Matter (PM_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10}:

- Attainment
- Nonattainment
- Unclassifiable

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment
- Unclassifiable/Attainment

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Original designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary $PM_{2.5}$ standard of 12.0 $\mu g/m^3$. New area designations reflecting this revised standard became final in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 $\mu g/m^3$ as well as the 24-hour standard of 35 $\mu g/m^3$, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO_2 standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO_2 standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO_2). The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment,
- Unclassifiable, and
- Attainment/Unclassifiable.

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO_2 standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual

average standards. Area designations for the 1-hour SO_2 standard were finalized on December 21, 2017 and are reflected in the area designations map.

Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m^3. Designations were made for this standard in November 2010.

Designation Areas

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

https://ecfr.io/Title-40/se40.20.81_1305

FIGURE 11

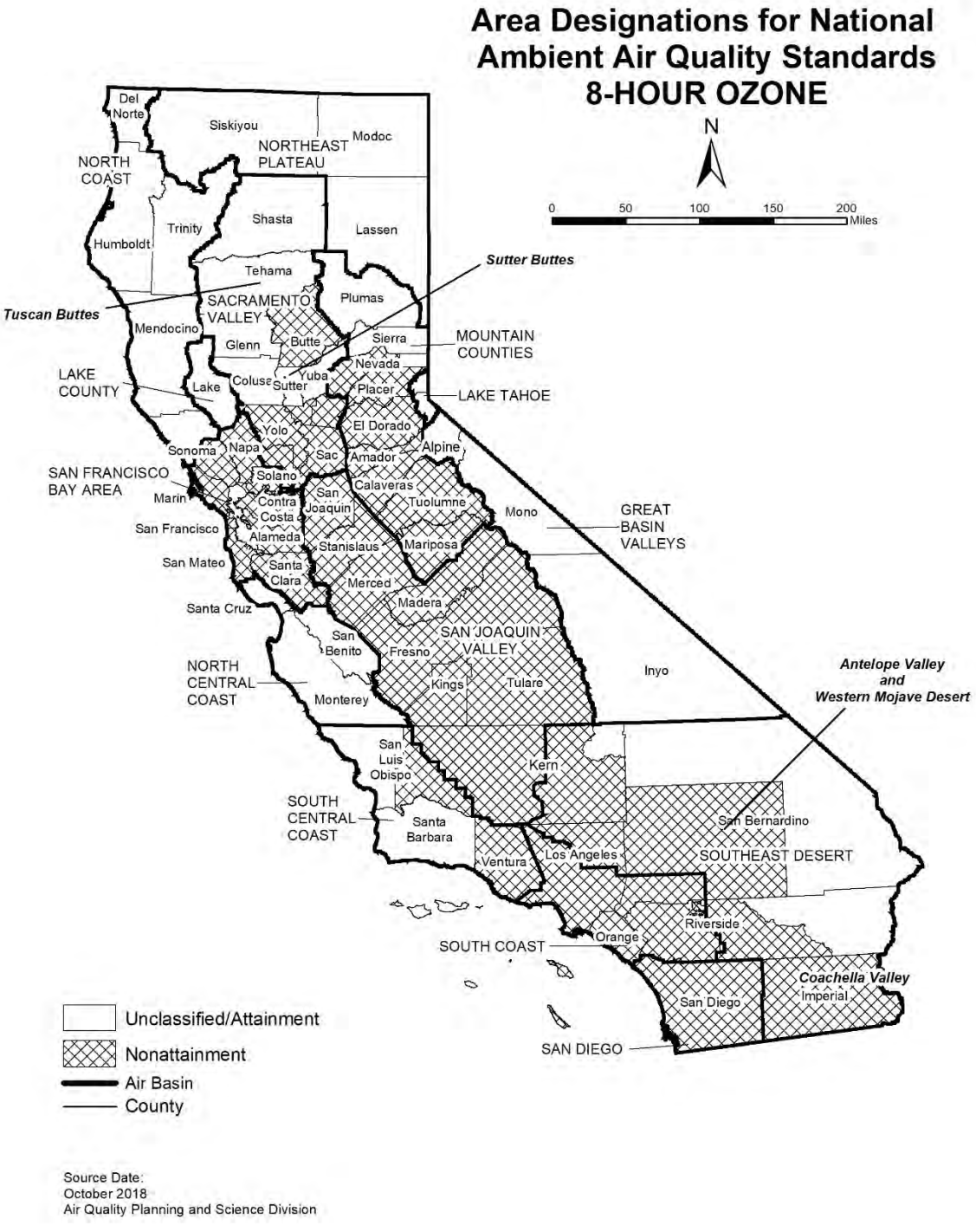

Area Designations for National Ambient Air Quality Standards
8-HOUR OZONE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
Sutter Buttes
Tuscan Buttes
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Lake
Colusa
Sutter
Yuba
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Marin
Contra Costa
San Joaquin
Calaveras
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
San Benito
SAN JOAQUIN VALLEY
Fresno
Inyo
NORTH CENTRAL COAST
Kings
Tulare
Antelope Valley and Western Mojave Desert
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
SOUTHEAST DESERT
Riverside
Orange
SOUTH COAST
Coachella Valley
Imperial
San Diego
SAN DIEGO
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 11

National Ambient Air Quality Standards
Area Designations for 8-Hour Ozone*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		X	Yolo County (2)	X	
LAKE TAHOE AIR BASIN		X	Yuba County		X
MOUNTAIN COUNTIES AIR BASIN			SAN DIEGO COUNTY	X	
Amador County	X		SAN FRANCISCO BAY AREA AIR BASIN	X	
Calaveras County	X		SAN JOAQUIN VALLEY AIR BASIN	X	
El Dorado County (portion) (2)	X		SOUTH CENTRAL COAST AIR BASIN (1)		
Mariposa County	X		San Luis Obispo County		
Nevada County			- Eastern San Luis Obispo County	X	
- Western Nevada County	X		- Remainder of County		X
- Remainder of County		X	Santa Barbara County		X
Placer County (portion) (2)	X		Ventura County		
Plumas County		X	- Area excluding Anacapa and San Nicolas Islands	X	
Sierra County		X	- Channel Islands (1)		X
Tuolumne County	X		SOUTH COAST AIR BASIN (1)	X	
NORTH CENTRAL COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		X	Kern County (portion)	X	
NORTHEAST PLATEAU AIR BASIN		X	- Indian Wells Valley		X
SACRAMENTO VALLEY AIR BASIN			Imperial County	X	
Butte County	X		Los Angeles County (portion)	X	
Colusa County		X	Riverside County (portion)		
Glenn County		X	- Coachella Valley	X	
Sacramento Metro Area (2)	X		- Non-AQMA portion		X
Shasta County		X	San Bernardino County		
Sutter County			- Western portion (AQMA)	X	
- Sutter Buttes	X		- Eastern portion (non-AQMA)		X
- Southern portion of Sutter County (2)	X				
- Remainder of Sutter County		X			
Tehama County					
- Tuscan Buttes	X				
- Remainder of Tehama County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2015 8-hour ozone standard of 0.070 ppm.

(1) South Central Coast Air Basin Channel Islands:
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.
Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:
Los Angeles County includes San Clemente and Santa Catalina Islands.

(2) For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

FIGURE 12


Area Designations for National Ambient Air Quality Standards PM10
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
LAKE TAHOE
Lake
Sutter
Yolo
El Dorado
Alpine
Sacramento County
Sonoma
Napa
Sac
Amador
Mono
Mono Basin
SAN FRANCISCO BAY AREA
Marin
Solano
Calaveras
Contra Costa
San Joaquin
Tuolumne
Mammoth Lake
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Inyo
Santa Cruz
San Benito
Fresno
SAN JOAQUIN VALLEY
Owens Valley
Coso Junction
Trona
NORTH CENTRAL COAST
Monterey
Kings
Tulare
San Luis Obispo
Kern
Indian Wells Valley
San Bernardino
SOUTH CENTRAL COAST
Santa Barbara
Ventura
Los Angeles
SOUTHEAST DESERT
Riverside
Coachella Valley
Orange
SOUTH COAST
Imperial
San Diego
SAN DIEGO COUNTY
Unclassified
Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 12

National Ambient Air Quality Standards
Area Designations for Suspended Particulate Matter (PM10)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN				SAN DIEGO COUNTY		X	
Alpine County		X		SAN FRANCISCO BAY AREA AIR BASIN		X	
Inyo County				SAN JOAQUIN VALLEY AIR BASIN			X
- Owens Valley Planning Area	X			SOUTH CENTRAL COAST AIR BASIN		X	
- Coso Junction			X	SOUTH COAST AIR BASIN			X
- Remainder of County		X		SOUTHEAST DESERT AIR BASIN			
Mono County				Eastern Kern County			
- Mammoth Lake Planning Area			X	- Indian Wells Valley			X
- Mono Lake Basin	X			- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X		- Remainder of County		X	
LAKE COUNTY AIR BASIN		X		Imperial County			
LAKE TAHOE AIR BASIN		X		- Imperial Valley Planning Area	X		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		X	
Placer County (portion) (2)		X		Los Angeles County (portion)		X	
Remainder of Air Basin		X		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		X		- Coachella Valley (3)	X		
NORTH COAST AIR BASIN		X		- Non-AQMA portion		X	
NORTHEAST PLATEAU AIR BASIN		X		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	X		
Butte County		X		- Remainder of County	X		
Colusa County		X					
Glenn County		X					
Placer County (portion) (2)		X					
Sacramento County (1)			X				
Shasta County		X					
Solano County (portion)		X					
Sutter County		X					
Tehama County		X					
Yolo County		X					
Yuba County		X					

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.
(1) Air quality in Sacramento County meets the national PM10 standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.
(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.
(3) Air quality in Coachella Valley meets the national PM10 standards. A request for redesignation to attainment has been submitted to U.S. EPA.

FIGURE 13


Area Designations for National Ambient Air Quality Standards PM2.5
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTH COAST
NORTHEAST PLATEAU
Humboldt
Trinity
Shasta
Lassen
Tehama
SACRAMENTO VALLEY
Plumas
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Mendocino
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
El Dorado
Yolo
Sonoma
Napa
Sacramento
Alpine
Amador
Solano
Calaveras
SAN FRANCISCO BAY AREA
Marin
Tuolumne
GREAT BASIN VALLEYS
Contra Costa
San Joaquin
Mono
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
Fresno
NORTH CENTRAL COAST
San Benito
SAN JOAQUIN VALLEY
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
SOUTHEAST DESERT
Ventura
Los Angeles
Orange
Riverside
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 13

National Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN (2)	X	
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN	X	
MOUNTAIN COUNTIES AIR BASIN			SOUTH CENTRAL COAST AIR BASIN		X
Plumas County			SOUTH COAST AIR BASIN (3)	X	
- Portola Valley Portion of Plumas	X		SOUTHEAST DESERT AIR BASIN		
- Remainder of Plumas County		X	Imperial County (portion) (4)	X	
Remainder of Air Basin		X	Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X			
NORTH COAST AIR BASIN		X			
NORTHEAST PLATEAU AIR BASIN		X			
SACRAMENTO VALLEY AIR BASIN					
Sacramento Metro Area (1)	X				
Sutter County		X			
Yuba County (portion)		X			
Remainder of Air Basin		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM2.5 standard as well as the 1997 and 2012 PM2.5 annual standards.

(1) For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(2) Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(3) Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

(4) That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

FIGURE 14


Area Designations for National Ambient Air Quality Standards
CARBON MONOXIDE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Trinity
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Lake
Sutter
Yuba
Placer
LAKE TAHOE
LAKE COUNTY
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
San Joaquin
Contra Costa
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
SOUTHEAST DESERT
Santa Barbara
Ventura
Los Angeles
San Bernardino
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 14

National Ambient Air Quality Standards
Area Designations for Carbon Monoxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 15


Area Designations for National Ambient Air Quality Standards
NITROGEN DIOXIDE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehema
Plumas
SACRAMENTO VALLEY
Mendocino
Glenn
Butte
Sierra
Nevada
MOUNTAIN COUNTIES
Colusa
Yuba
Placer
LAKE COUNTY
Lake
Sutter
LAKE TAHOE
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Marin
Calaveras
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Tulare
Inyo
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
SOUTHEAST DESERT
Los Angeles
San Bernardino
Ventura
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 15

National Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 16



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 16

National Ambient Air Quality Standards
Area Designations for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		X	San Luis Obispo County		X
LAKE TAHOE AIR BASIN		X	Santa Barbara County		X
MOUNTAIN COUNTIES AIR BASIN		X	Ventura County		X
NORTH CENTRAL COAST AIR BASIN		X	Channel Islands (1)		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		X	Imperial County		X
SAN DIEGO COUNTY		X	Remainder of Air Basin		X
SAN FRANCISCO BAY AREA AIR BASIN		X			
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		X			
Kern County (portion)		X			
Kings County		X			
Madera County		X			
Merced County		X			
San Joaquin County		X			
Stanislaus County		X			
Tulare County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2010 1-hour SO_2 standard of 75 ppb.

(1) South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

FIGURE 17


Area Designations for National Ambient Air Quality Standards
LEAD
N
0 50 100 150 200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Lake
Sutter
Yuba
Placer
LAKE TAHOE
LAKE COUNTY
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
San Joaquin
Contra Costa
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
SOUTHEAST DESERT
Santa Barbara
Ventura
Los Angeles
San Bernardino
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 17

National Ambient Air Quality Standards
Area Designations for Lead (particulate)

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		X	Los Angeles County (portion) (1)	X	
NORTHEAST PLATEAU AIR BASIN		X	Remainder of Air Basin		X
SACRAMENTO VALLEY AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

(1) Portion of County in Air Basin, not including Channel Islands

APPENDIX 3.1:

CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS

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The Bowery Mixed-Use Project (Construction - Unmitigated)

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	2,424.00	Space	3.42	969,600.00	0
Other Asphalt Surfaces	166.98	1000sqft	3.83	166,981.00	0
Other Non-Asphalt Surfaces	174.56	1000sqft	4.01	174,555.00	0
Fast Food Restaurant w/o Drive Thru	2.00	1000sqft	0.05	2,000.00	0
Fast Food Restaurant with Drive Thru	10.00	1000sqft	0.23	10,000.00	0
High Turnover (Sit Down Restaurant)	25.00	1000sqft	0.57	25,000.00	0
Quality Restaurant	25.00	1000sqft	0.57	25,000.00	0
Apartments Mid Rise	1,150.00	Dwelling Unit	1.48	1,288,000.00	2081
Regional Shopping Center	18.00	1000sqft	0.41	18,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2022
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

The Bowery Mixed-Use Project (Construction - Unmitigated) - Orange County, Summer

Project Characteristics -

Land Use - Total Project Aread is 14.58 acres. Per the Project Description, at full occupany, the Project would house approximatley 2,081 residents.

Construction Phase - Construction Schedule adjusted to meet the 27-months of construction and the 2022 opening year.

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

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

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

Off-road Equipment -

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

Demolition -

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Architectural Coating - Rule 1113

Vehicle Trips - Construcion Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Woodstoves - Construcion Run Only.

Energy Use - Construcion Run Only.

Water And Wastewater - Construcion Run Only.

Solid Waste - Construcion Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	45.00

tblConstructionPhase	NumDays	300.00	420.00
tblConstructionPhase	NumDays	20.00	180.00
tblConstructionPhase	NumDays	20.00	45.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	179.76	0.00
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	8.71	0.00

tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	5,911.46	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	977.50	0.00
tblFireplaces	NumberNoFireplace	115.00	0.00
tblFireplaces	NumberWood	57.50	0.00
tblGrading	AcresOfGrading	105.00	120.00
tblGrading	AcresOfGrading	90.00	157.50
tblLandUse	LandUseSquareFeet	1,150,000.00	1,288,000.00
tblLandUse	LotAcreage	21.82	3.42
tblLandUse	LotAcreage	30.26	1.48
tblLandUse	Population	3,289.00	2,081.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

tblSolidWaste	SolidWasteGenerationRate	529.00	0.00
tblSolidWaste	SolidWasteGenerationRate	23.04	0.00
tblSolidWaste	SolidWasteGenerationRate	115.19	0.00
tblSolidWaste	SolidWasteGenerationRate	297.50	0.00
tblSolidWaste	SolidWasteGenerationRate	22.81	0.00
tblSolidWaste	SolidWasteGenerationRate	18.90	0.00
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	2.24	5.67
tblVehicleEF	HHD	1.31	0.71
tblVehicleEF	HHD	4.03	0.01
tblVehicleEF	HHD	4,069.38	1,071.37
tblVehicleEF	HHD	1,661.35	1,472.58
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	18.80	5.84
tblVehicleEF	HHD	3.54	3.30
tblVehicleEF	HHD	0.02	3.7940e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.02	3.6300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006

tblVehicleEF	HHD	1.1400e-004	5.0000e-006
tblVehicleEF	HHD	4.7360e-003	2.0100e-004
tblVehicleEF	HHD	0.53	0.41
tblVehicleEF	HHD	8.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.12	0.07
tblVehicleEF	HHD	4.2900e-004	9.3000e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.04	9.8130e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9600e-004	1.0000e-006
tblVehicleEF	HHD	1.1400e-004	5.0000e-006
tblVehicleEF	HHD	4.7360e-003	2.0100e-004
tblVehicleEF	HHD	0.64	0.47
tblVehicleEF	HHD	8.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.30	0.22
tblVehicleEF	HHD	4.2900e-004	9.3000e-004
tblVehicleEF	HHD	0.10	5.0000e-006
tblVehicleEF	HHD	0.55	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.62	5.55
tblVehicleEF	HHD	1.31	0.71
tblVehicleEF	HHD	3.84	0.01
tblVehicleEF	HHD	4,310.95	1,068.30
tblVehicleEF	HHD	1,661.35	1,472.58
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	19.40	5.67

tblVehicleEF	HHD	3.35	3.12
tblVehicleEF	HHD	0.01	3.3070e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.01	3.1640e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	4.8280e-003	2.0400e-004
tblVehicleEF	HHD	0.50	0.43
tblVehicleEF	HHD	1.2000e-004	5.0000e-006
tblVehicleEF	HHD	0.12	0.07
tblVehicleEF	HHD	4.1400e-004	9.1300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.04	9.7840e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9300e-004	1.0000e-006
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	4.8280e-003	2.0400e-004
tblVehicleEF	HHD	0.60	0.50
tblVehicleEF	HHD	1.2000e-004	5.0000e-006
tblVehicleEF	HHD	0.30	0.22
tblVehicleEF	HHD	4.1400e-004	9.1300e-004

tblVehicleEF	HHD	0.10	4.0000e-006
tblVehicleEF	HHD	0.63	0.02
tblVehicleEF	HHD	0.16	2.9240e-003
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	3.08	5.67
tblVehicleEF	HHD	1.30	0.31
tblVehicleEF	HHD	4.07	0.01
tblVehicleEF	HHD	3,735.78	1,043.04
tblVehicleEF	HHD	1,661.35	1,373.81
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	17.96	5.87
tblVehicleEF	HHD	3.48	3.16
tblVehicleEF	HHD	0.02	4.0580e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.02	3.8830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.5030e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.1200e-004	5.0000e-006
tblVehicleEF	HHD	5.0860e-003	2.2300e-004
tblVehicleEF	HHD	0.58	0.38
tblVehicleEF	HHD	8.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.12	0.06

tblVehicleEF	HHD	4.6600e-004	9.9300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	9.8540e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9600e-004	1.0000e-006
tblVehicleEF	HHD	1.1200e-004	5.0000e-006
tblVehicleEF	HHD	5.0860e-003	2.2300e-004
tblVehicleEF	HHD	0.69	0.43
tblVehicleEF	HHD	8.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.30	0.07
tblVehicleEF	HHD	4.6600e-004	9.9300e-004
tblVehicleEF	HHD	0.10	5.0000e-006
tblVehicleEF	LDA	3.9360e-003	2.3280e-003
tblVehicleEF	LDA	4.5350e-003	0.05
tblVehicleEF	LDA	0.55	0.63
tblVehicleEF	LDA	1.00	2.05
tblVehicleEF	LDA	252.97	257.52
tblVehicleEF	LDA	56.16	52.62
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.9340e-003	8.8060e-003

tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.5330e-003	2.5470e-003
tblVehicleEF	LDA	5.7800e-004	5.2100e-004
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tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1570e-003	2.4790e-003
tblVehicleEF	LDA	4.0770e-003	0.04
tblVehicleEF	LDA	0.60	0.68
tblVehicleEF	LDA	0.87	1.77
tblVehicleEF	LDA	263.60	268.06
tblVehicleEF	LDA	56.16	52.11
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	9.2950e-003
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.05	0.19

tblVehicleEF	LDA	2.6400e-003	2.6520e-003
tblVehicleEF	LDA	5.7600e-004	5.1600e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	3.8610e-003	2.2810e-003
tblVehicleEF	LDA	4.6290e-003	0.05
tblVehicleEF	LDA	0.53	0.61
tblVehicleEF	LDA	1.03	2.11
tblVehicleEF	LDA	249.05	253.63
tblVehicleEF	LDA	56.16	52.74
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.7480e-003	8.6410e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4930e-003	2.5090e-003
tblVehicleEF	LDA	5.7900e-004	5.2200e-004

tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	8.9890e-003	5.4220e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.10	1.13
tblVehicleEF	LDT1	2.48	2.24
tblVehicleEF	LDT1	313.91	304.64
tblVehicleEF	LDT1	69.94	63.35
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.24	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.62
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.1510e-003	3.0150e-003
tblVehicleEF	LDT1	7.4300e-004	6.2700e-004
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.24	0.18

tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.15	0.62
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	9.4340e-003	5.7300e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.18	1.22
tblVehicleEF	LDT1	2.14	1.93
tblVehicleEF	LDT1	326.59	315.43
tblVehicleEF	LDT1	69.94	62.74
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.57
tblVehicleEF	LDT1	0.15	0.29
tblVehicleEF	LDT1	3.2790e-003	3.1210e-003
tblVehicleEF	LDT1	7.3700e-004	6.2100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.04

tblVehicleEF	LDT1	0.14	0.57
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	8.8330e-003	5.3230e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.06	1.10
tblVehicleEF	LDT1	2.56	2.31
tblVehicleEF	LDT1	309.22	300.66
tblVehicleEF	LDT1	69.94	63.48
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.27	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.1040e-003	2.9750e-003
tblVehicleEF	LDT1	7.4400e-004	6.2800e-004
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.27	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.19	0.37

tblVehicleEF	LDT2	5.3680e-003	3.6520e-003
tblVehicleEF	LDT2	5.9420e-003	0.06
tblVehicleEF	LDT2	0.70	0.84
tblVehicleEF	LDT2	1.29	2.60
tblVehicleEF	LDT2	356.05	329.20
tblVehicleEF	LDT2	79.07	68.88
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.5650e-003	3.2570e-003
tblVehicleEF	LDT2	8.1200e-004	6.8200e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.6680e-003	3.8780e-003
tblVehicleEF	LDT2	5.3490e-003	0.06

tblVehicleEF	LDT2	0.76	0.92
tblVehicleEF	LDT2	1.12	2.24
tblVehicleEF	LDT2	370.66	339.75
tblVehicleEF	LDT2	79.07	68.21
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.05	0.36
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.7120e-003	3.3610e-003
tblVehicleEF	LDT2	8.0900e-004	6.7500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.36
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	5.2670e-003	3.5810e-003
tblVehicleEF	LDT2	6.0640e-003	0.07
tblVehicleEF	LDT2	0.68	0.82
tblVehicleEF	LDT2	1.32	2.68

tblVehicleEF	LDT2	350.66	325.31
tblVehicleEF	LDT2	79.07	69.03
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.08	0.30
tblVehicleEF	LDT2	3.5110e-003	3.2180e-003
tblVehicleEF	LDT2	8.1300e-004	6.8300e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LHD1	5.4230e-003	5.5990e-003
tblVehicleEF	LHD1	9.3000e-003	4.5130e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.70	0.51
tblVehicleEF	LHD1	2.36	1.04

tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.78
tblVehicleEF	LHD1	32.10	12.06
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.16	0.73
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	2.7120e-003	2.1290e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7400e-003	1.3620e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.28	0.44
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4010e-003
tblVehicleEF	LHD1	3.6600e-004	1.1900e-004
tblVehicleEF	LHD1	2.7120e-003	2.1290e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7400e-003	1.3620e-003

tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.28	0.44
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4230e-003	5.6110e-003
tblVehicleEF	LHD1	9.4800e-003	4.5890e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.71	0.52
tblVehicleEF	LHD1	2.26	1.00
tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.80
tblVehicleEF	LHD1	32.10	11.99
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.10	0.69
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	3.7830e-003	2.9790e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.3550e-003	1.8560e-003
tblVehicleEF	LHD1	0.06	0.04

tblVehicleEF	LHD1	0.27	0.43
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4020e-003
tblVehicleEF	LHD1	3.6400e-004	1.1900e-004
tblVehicleEF	LHD1	3.7830e-003	2.9790e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.3550e-003	1.8560e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.27	0.43
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.4230e-003	5.5970e-003
tblVehicleEF	LHD1	9.2520e-003	4.4920e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.70	0.51
tblVehicleEF	LHD1	2.38	1.05
tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.78
tblVehicleEF	LHD1	32.10	12.08
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.14	0.72
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004

tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	2.8100e-003	2.2130e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7580e-003	1.3810e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.48
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4010e-003
tblVehicleEF	LHD1	3.6600e-004	1.1900e-004
tblVehicleEF	LHD1	2.8100e-003	2.2130e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7580e-003	1.3810e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.48
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.9700e-003	4.0620e-003
tblVehicleEF	LHD2	3.7300e-003	3.3390e-003
tblVehicleEF	LHD2	8.2200e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.32	0.37
tblVehicleEF	LHD2	1.26	0.72

tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.64
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.75	0.83
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.0630e-003	1.3680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2900e-004	8.9600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.28
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9900e-004	9.5000e-005
tblVehicleEF	LHD2	1.0630e-003	1.3680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.2900e-004	8.9600e-004

tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.08	0.28
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.9700e-003	4.0700e-003
tblVehicleEF	LHD2	3.7710e-003	3.3710e-003
tblVehicleEF	LHD2	7.9600e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.33	0.37
tblVehicleEF	LHD2	1.21	0.69
tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.59
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.71	0.79
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.4890e-003	1.9160e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-004	1.2200e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.08	0.27
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9800e-004	9.5000e-005
tblVehicleEF	LHD2	1.4890e-003	1.9160e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	9.9000e-004	1.2200e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.08	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.9700e-003	4.0600e-003
tblVehicleEF	LHD2	3.7190e-003	3.3310e-003
tblVehicleEF	LHD2	8.2730e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.32	0.37
tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.65
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.74	0.82
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004

tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.0710e-003	1.3980e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2500e-004	8.9100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9900e-004	9.5000e-005
tblVehicleEF	LHD2	1.0710e-003	1.3980e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.2500e-004	8.9100e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.31
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.34	18.60
tblVehicleEF	MCY	9.57	8.45
tblVehicleEF	MCY	178.02	214.46
tblVehicleEF	MCY	44.92	59.78

tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.13	1.15
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.37	2.38
tblVehicleEF	MCY	0.64	2.00
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1510e-003	2.1220e-003
tblVehicleEF	MCY	6.6600e-004	5.9200e-004
tblVehicleEF	MCY	1.13	1.15
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.94	2.95
tblVehicleEF	MCY	0.64	2.00
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.67	17.90
tblVehicleEF	MCY	8.81	7.75
tblVehicleEF	MCY	178.02	213.15
tblVehicleEF	MCY	44.92	58.02
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	2.1850e-003	2.1650e-003

tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.70	1.73
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.11	1.13
tblVehicleEF	MCY	2.31	2.33
tblVehicleEF	MCY	0.60	1.87
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.1390e-003	2.1090e-003
tblVehicleEF	MCY	6.4700e-004	5.7400e-004
tblVehicleEF	MCY	1.70	1.73
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.11	1.13
tblVehicleEF	MCY	2.87	2.88
tblVehicleEF	MCY	0.60	1.87
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.44	18.70
tblVehicleEF	MCY	9.69	8.57
tblVehicleEF	MCY	178.02	214.66
tblVehicleEF	MCY	44.92	60.09
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003

tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.88	0.90
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.38	2.39
tblVehicleEF	MCY	0.73	2.30
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.1530e-003	2.1240e-003
tblVehicleEF	MCY	6.6900e-004	5.9500e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.88	0.90
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.95	2.97
tblVehicleEF	MCY	0.73	2.30
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	4.7750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.13	0.98
tblVehicleEF	MDV	2.37	2.97
tblVehicleEF	MDV	484.17	407.06
tblVehicleEF	MDV	105.06	83.79
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.06	0.08

tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.18	0.37
tblVehicleEF	MDV	4.8480e-003	4.0240e-003
tblVehicleEF	MDV	1.0920e-003	8.2900e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	0.01	5.0630e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.22	1.07
tblVehicleEF	MDV	2.05	2.55
tblVehicleEF	MDV	503.46	418.11
tblVehicleEF	MDV	105.06	83.01
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12

tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.16	0.34
tblVehicleEF	MDV	5.0420e-003	4.1340e-003
tblVehicleEF	MDV	1.0860e-003	8.2100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.17	0.37
tblVehicleEF	MDV	9.9990e-003	4.6830e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.09	0.95
tblVehicleEF	MDV	2.43	3.06
tblVehicleEF	MDV	477.05	402.99
tblVehicleEF	MDV	105.06	83.96
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48

tblVehicleEF	MDV	0.18	0.38
tblVehicleEF	MDV	4.7760e-003	3.9840e-003
tblVehicleEF	MDV	1.0930e-003	8.3100e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.20	0.42
tblVehicleEF	MH	0.02	3.2780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.81	0.30
tblVehicleEF	MH	5.09	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.33	3.77
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	0.87	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.6000e-004	0.00
tblVehicleEF	MH	0.87	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.2780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.86	0.30
tblVehicleEF	MH	4.82	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.24	3.57
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	1.17	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.52	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.5500e-004	0.00
tblVehicleEF	MH	1.17	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.52	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.2780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.80	0.30
tblVehicleEF	MH	5.12	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.31	3.70
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	0.96	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.6000e-004	0.00
tblVehicleEF	MH	0.96	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MHD	0.02	4.8200e-003
tblVehicleEF	MHD	3.6730e-003	3.4120e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.35	0.38
tblVehicleEF	MHD	0.30	0.34
tblVehicleEF	MHD	5.52	1.25
tblVehicleEF	MHD	143.56	55.50
tblVehicleEF	MHD	1,140.06	1,052.30
tblVehicleEF	MHD	59.06	12.60
tblVehicleEF	MHD	0.51	0.35
tblVehicleEF	MHD	1.09	1.42
tblVehicleEF	MHD	1.9500e-004	8.6400e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	1.8700e-004	8.2600e-004
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.0560e-003	4.7900e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0400e-004	3.3300e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.3810e-003	5.2800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8700e-004	1.2500e-004
tblVehicleEF	MHD	1.0560e-003	4.7900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.0400e-004	3.3300e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.37	0.06
tblVehicleEF	MHD	0.01	4.5660e-003
tblVehicleEF	MHD	3.7140e-003	3.4420e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	0.30	0.35
tblVehicleEF	MHD	5.26	1.19
tblVehicleEF	MHD	152.06	56.12
tblVehicleEF	MHD	1,140.06	1,052.30
tblVehicleEF	MHD	59.06	12.50
tblVehicleEF	MHD	0.53	0.35
tblVehicleEF	MHD	1.03	1.34

tblVehicleEF	MHD	1.6400e-004	7.3000e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	1.5700e-004	6.9900e-004
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.4900e-003	6.7700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.7000e-004	4.5800e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	1.4610e-003	5.3400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8300e-004	1.2400e-004
tblVehicleEF	MHD	1.4900e-003	6.7700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.7000e-004	4.5800e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.02	5.1860e-003
tblVehicleEF	MHD	3.6600e-003	3.4020e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.48	0.49

tblVehicleEF	MHD	0.30	0.34
tblVehicleEF	MHD	5.56	1.26
tblVehicleEF	MHD	131.82	54.65
tblVehicleEF	MHD	1,140.06	1,052.29
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tblVehicleEF	MHD	1.07	1.39
tblVehicleEF	MHD	2.3700e-004	1.0480e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	2.2700e-004	1.0030e-003
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.0870e-003	4.8400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.1300e-004	3.3300e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.2710e-003	5.2000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8800e-004	1.2500e-004
tblVehicleEF	MHD	1.0870e-003	4.8400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.1300e-004	3.3300e-004

tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.07
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tblVehicleEF	OBUS	7.3650e-003	6.7550e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.54
tblVehicleEF	OBUS	0.51	0.78
tblVehicleEF	OBUS	5.29	2.38
tblVehicleEF	OBUS	84.12	81.35
tblVehicleEF	OBUS	1,220.51	1,388.32
tblVehicleEF	OBUS	69.46	20.04
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tblVehicleEF	OBUS	1.28	1.36
tblVehicleEF	OBUS	8.0000e-005	6.6700e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	7.7000e-005	6.3800e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.3980e-003	1.8310e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.5900e-004	9.7700e-004
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.23
tblVehicleEF	OBUS	0.33	0.12

tblVehicleEF	OBUS	8.1500e-004	7.7500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	1.9800e-004
tblVehicleEF	OBUS	1.3980e-003	1.8310e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5900e-004	9.7700e-004
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.23
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	0.01	8.8340e-003
tblVehicleEF	OBUS	7.4870e-003	6.8750e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.53
tblVehicleEF	OBUS	0.52	0.79
tblVehicleEF	OBUS	5.02	2.26
tblVehicleEF	OBUS	88.10	81.25
tblVehicleEF	OBUS	1,220.51	1,388.34
tblVehicleEF	OBUS	69.46	19.83
tblVehicleEF	OBUS	0.37	0.37
tblVehicleEF	OBUS	1.20	1.28
tblVehicleEF	OBUS	6.8000e-005	5.6700e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	6.5000e-005	5.4200e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004

tblVehicleEF	OBUS	1.9250e-003	2.5060e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.0420e-003	1.3300e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	8.5300e-004	7.7400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8300e-004	1.9600e-004
tblVehicleEF	OBUS	1.9250e-003	2.5060e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0420e-003	1.3300e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.7300e-003
tblVehicleEF	OBUS	7.3280e-003	6.7200e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.29	0.56
tblVehicleEF	OBUS	0.51	0.77
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tblVehicleEF	OBUS	1,220.51	1,388.31
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tblVehicleEF	OBUS	1.25	1.34
tblVehicleEF	OBUS	9.8000e-005	8.0600e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	9.4000e-005	7.7100e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.4220e-003	1.8770e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.5400e-004	9.7800e-004
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.33	0.12
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8800e-004	1.9900e-004
tblVehicleEF	OBUS	1.4220e-003	1.8770e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5400e-004	9.7800e-004
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tblVehicleEF	SBUS	0.02	0.01
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	9.5800e-004	6.8000e-005
tblVehicleEF	SBUS	8.8310e-003	5.4370e-003
tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	8.8100e-004	6.2000e-005
tblVehicleEF	SBUS	3.4880e-003	1.1160e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.9230e-003	5.9300e-004
tblVehicleEF	SBUS	0.12	0.13
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.49	0.04
tblVehicleEF	SBUS	0.01	3.4160e-003
tblVehicleEF	SBUS	0.01	0.01
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tblVehicleEF	SBUS	3.4880e-003	1.1160e-003

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tblVehicleEF	SBUS	0.15	0.15
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.53	0.05
tblVehicleEF	SBUS	0.85	0.08
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tblVehicleEF	SBUS	0.07	6.7680e-003
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tblVehicleEF	SBUS	9.39	3.81
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tblVehicleEF	SBUS	7.7820e-003	4.7960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.04
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tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
tblVehicleEF	SBUS	0.02	0.04
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tblVehicleEF	UBUS	0.03	2.6830e-003
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tblVehicleEF	UBUS	5.9600e-003	2.9310e-003
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tblVehicleEF	UBUS	1.5760e-003	2.2500e-004
tblVehicleEF	UBUS	5.9600e-003	2.9310e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	3.5870e-003	2.0490e-003
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tblVehicleEF	UBUS	0.03	0.24
tblVehicleEF	UBUS	1.03	0.17
tblVehicleEF	UBUS	1.81	5.27

tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	8.48	41.16
tblVehicleEF	UBUS	11.11	1.61
tblVehicleEF	UBUS	1,815.92	2,086.92
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tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.03	2.8080e-003
tblVehicleEF	UBUS	1.2230e-003	4.4000e-005
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tblVehicleEF	UBUS	4.7760e-003	2.7270e-003
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tblVehicleEF	UBUS	0.03	0.21

tblVehicleEF	UBUS	0.95	0.16
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tblVehicleEF	UBUS	3.7560e-003	1.9370e-003

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tblVehicleTrips	CC_TL	8.40	0.00
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tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
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tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00

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tblVehicleTrips	CNW_TTP	19.00	0.00
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tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
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tblVehicleTrips	CW_TL	16.60	0.00
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tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	PR_TP	51.00	0.00
tblVehicleTrips	PR_TP	29.00	0.00
tblVehicleTrips	PR_TP	37.00	0.00
tblVehicleTrips	PR_TP	38.00	0.00
tblVehicleTrips	PR_TP	54.00	0.00
tblVehicleTrips	ST_TR	6.39	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	5.86	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	6.65	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	496.12	0.00

tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWater	IndoorWaterUseRate	74,927,129.46	0.00
tblWater	IndoorWaterUseRate	607,067.42	0.00
tblWater	IndoorWaterUseRate	3,035,337.12	0.00
tblWater	IndoorWaterUseRate	7,588,342.81	0.00
tblWater	IndoorWaterUseRate	7,588,342.81	0.00
tblWater	IndoorWaterUseRate	1,333,305.39	0.00
tblWater	OutdoorWaterUseRate	47,236,668.58	0.00
tblWater	OutdoorWaterUseRate	38,748.98	0.00
tblWater	OutdoorWaterUseRate	193,744.92	0.00
tblWater	OutdoorWaterUseRate	484,362.31	0.00
tblWater	OutdoorWaterUseRate	484,362.31	0.00
tblWater	OutdoorWaterUseRate	817,187.17	0.00
tblWoodstoves	NumberCatalytic	57.50	0.00
tblWoodstoves	NumberNoncatalytic	57.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2020	9.9030	76.6570	74.4329	0.2846	21.9792	2.7889	24.7681	10.3848	2.5658	12.9506	0.0000	29,000.8001	29,000.8001	2.2479	0.0000	29,056.9984
2021	9.1395	69.9740	69.9514	0.2784	18.0031	1.6467	19.6498	4.8251	1.5369	6.3620	0.0000	28,384.9840	28,384.9840	2.1784	0.0000	28,439.4440
2022	57.5681	66.1424	76.6754	0.3044	21.1551	1.5628	22.7179	5.6610	1.4656	7.1266	0.0000	30,971.1177	30,971.1177	2.2026	0.0000	31,026.1820
Maximum	**57.5681**	**76.6570**	**76.6754**	**0.3044**	**21.9792**	**2.7889**	**24.7681**	**10.3848**	**2.5658**	**12.9506**	**0.0000**	**30,971.1177**	**30,971.1177**	**2.2479**	**0.0000**	**31,026.1820**

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					
2020	9.9030	76.6570	74.4329	0.2846	18.0031	2.7889	19.9355	4.8251	2.5658	6.6484	0.0000	29,000.8001	29,000.8001	2.2479	0.0000	29,056.9984
2021	9.1395	69.9740	69.9514	0.2784	18.0031	1.6467	19.6498	4.8251	1.5369	6.3620	0.0000	28,384.9840	28,384.9840	2.1784	0.0000	28,439.4440
2022	57.5681	66.1424	76.6754	0.3044	21.1551	1.5628	22.7179	5.6610	1.4656	7.1266	0.0000	30,971.1177	30,971.1177	2.2026	0.0000	31,026.1820
Maximum	**57.5681**	**76.6570**	**76.6754**	**0.3044**	**21.1551**	**2.7889**	**22.7179**	**5.6610**	**2.5658**	**7.1266**	**0.0000**	**30,971.1177**	**30,971.1177**	**2.2479**	**0.0000**	**31,026.1820**

The Bowery Mixed-Use Project (Construction - Unmitigated) - Orange 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**	**6.50**	**0.00**	**7.20**	**26.64**	**0.00**	**23.84**	**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	32.9577	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258	0.0000	171.4580	171.4580	0.1665	0.0000	175.6194
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	**32.9577**	**1.0980**	**95.2696**	**5.0300e-003**	**0.0000**	**0.5258**	**0.5258**	**0.0000**	**0.5258**	**0.5258**	**0.0000**	**171.4580**	**171.4580**	**0.1665**	**0.0000**	**175.6194**

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	32.9577	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258	0.0000	171.4580	171.4580	0.1665	0.0000	175.6194
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	**32.9577**	**1.0980**	**95.2696**	**5.0300e-003**	**0.0000**	**0.5258**	**0.5258**	**0.0000**	**0.5258**	**0.5258**	**0.0000**	**171.4580**	**171.4580**	**0.1665**	**0.0000**	**175.6194**

	ROG	NOx	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	6/1/2020	7/10/2020	5	30	
2	Site Preparation	Site Preparation	7/11/2020	9/11/2020	5	45	
3	Grading	Grading	9/12/2020	10/23/2020	5	30	
4	Building Construction	Building Construction	10/24/2020	6/3/2022	5	420	
5	Architectural Coating	Architectural Coating	1/1/2022	9/9/2022	5	180	
6	Paving	Paving	6/4/2022	8/5/2022	5	45	

Acres of Grading (Site Preparation Phase): 157.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 11.26

Residential Indoor: 2,608,200; Residential Outdoor: 869,400; Non-Residential Indoor: 120,000; Non-Residential Outdoor: 40,000; Striped Parking Area: 78,668 (Architectural Coating – sqft)

OffRoad Equipment

The Bowery Mixed-Use Project (Construction - Unmitigated) - Orange County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	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	1,254.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,410.00	351.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	282.00	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 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0481	0.0000	9.0481	1.3700	0.0000	1.3700			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**9.0481**	**1.6587**	**10.7068**	**1.3700**	**1.5419**	**2.9118**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3156	11.4937	2.9042	0.0320	0.7278	0.0372	0.7650	0.1992	0.0356	0.2348		3,565.7820	3,565.7820	0.3696		3,575.0225
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	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		163.5065	163.5065	3.7300e-003		163.5997
Total	**0.3733**	**11.5300**	**3.3952**	**0.0336**	**0.8955**	**0.0383**	**0.9338**	**0.2437**	**0.0366**	**0.2803**		**3,729.2885**	**3,729.2885**	**0.3734**		**3,738.6222**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5288	0.0000	3.5288	0.5343	0.0000	0.5343			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**3.5288**	**1.6587**	**5.1875**	**0.5343**	**1.5419**	**2.0761**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3156	11.4937	2.9042	0.0320	0.7278	0.0372	0.7650	0.1992	0.0356	0.2348		3,565.7820	3,565.7820	0.3696		3,575.0225
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	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		163.5065	163.5065	3.7300e-003		163.5997
Total	**0.3733**	**11.5300**	**3.3952**	**0.0336**	**0.8955**	**0.0383**	**0.9338**	**0.2437**	**0.0366**	**0.2803**		**3,729.2885**	**3,729.2885**	**0.3734**		**3,738.6222**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7780	0.0000	21.7780	10.3315	0.0000	10.3315			0.0000			0.0000
Off-Road	5.5539	63.7874	22.3947	0.0570		2.7875	2.7875		2.5645	2.5645		5,523.5812	5,523.5812	1.7864		5,568.2421
Total	**5.5539**	**63.7874**	**22.3947**	**0.0570**	**21.7780**	**2.7875**	**24.5655**	**10.3315**	**2.5645**	**12.8960**		**5,523.5812**	**5,523.5812**	**1.7864**		**5,568.2421**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0692	0.0436	0.5892	1.9700e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2300e-003	0.0546		196.2079	196.2079	4.4700e-003		196.3197
Total	**0.0692**	**0.0436**	**0.5892**	**1.9700e-003**	**0.2012**	**1.3300e-003**	**0.2025**	**0.0534**	**1.2300e-003**	**0.0546**		**196.2079**	**196.2079**	**4.4700e-003**		**196.3197**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4934	0.0000	8.4934	4.0293	0.0000	4.0293			0.0000			0.0000
Off-Road	5.5539	63.7874	22.3947	0.0570		2.7875	2.7875		2.5645	2.5645	0.0000	5,523.5812	5,523.5812	1.7864		5,568.2421
Total	**5.5539**	**63.7874**	**22.3947**	**0.0570**	**8.4934**	**2.7875**	**11.2809**	**4.0293**	**2.5645**	**6.5938**	**0.0000**	**5,523.5812**	**5,523.5812**	**1.7864**		**5,568.2421**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0692	0.0436	0.5892	1.9700e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2300e-003	0.0546		196.2079	196.2079	4.4700e-003		196.3197
Total	**0.0692**	**0.0436**	**0.5892**	**1.9700e-003**	**0.2012**	**1.3300e-003**	**0.2025**	**0.0534**	**1.2300e-003**	**0.0546**		**196.2079**	**196.2079**	**4.4700e-003**		**196.3197**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.2641	0.0000	10.2641	3.7683	0.0000	3.7683			0.0000			0.0000
Off-Road	5.1888	60.8826	32.3988	0.0715		2.4690	2.4690		2.2714	2.2714		6,925.1051	6,925.1051	2.2397		6,981.0981
Total	**5.1888**	**60.8826**	**32.3988**	**0.0715**	**10.2641**	**2.4690**	**12.7331**	**3.7683**	**2.2714**	**6.0397**		**6,925.1051**	**6,925.1051**	**2.2397**		**6,981.0981**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	**0.0769**	**0.0484**	**0.6547**	**2.1900e-003**	**0.2236**	**1.4800e-003**	**0.2250**	**0.0593**	**1.3600e-003**	**0.0607**		**218.0087**	**218.0087**	**4.9700e-003**		**218.1330**

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					4.0030	0.0000	4.0030	1.4696	0.0000	1.4696			0.0000			0.0000
Off-Road	5.1888	60.8826	32.3988	0.0715		2.4690	2.4690		2.2714	2.2714	0.0000	6,925.1051	6,925.1051	2.2397		6,981.0981
Total	**5.1888**	**60.8826**	**32.3988**	**0.0715**	**4.0030**	**2.4690**	**6.4720**	**1.4696**	**2.2714**	**3.7411**	**0.0000**	**6,925.1051**	**6,925.1051**	**2.2397**		**6,981.0981**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	**0.0769**	**0.0484**	**0.6547**	**2.1900e-003**	**0.2236**	**1.4800e-003**	**0.2250**	**0.0593**	**1.3600e-003**	**0.0607**		**218.0087**	**218.0087**	**4.9700e-003**		**218.1330**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

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

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1213	36.5664	9.6513	0.0874	2.2427	0.1908	2.4334	0.6454	0.1825	0.8279		9,516.6256	9,516.6256	0.7697		9,535.8678
Worker	5.4186	3.4136	46.1530	0.1542	15.7605	0.1042	15.8647	4.1798	0.0960	4.2757		15,369.6148	15,369.6148	0.3504		15,378.3741
Total	**6.5398**	**39.9800**	**55.8043**	**0.2416**	**18.0031**	**0.2950**	**18.2981**	**4.8251**	**0.2785**	**5.1036**		**24,886.2404**	**24,886.2404**	**1.1201**		**24,914.2418**

Mitigated Construction On-Site

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

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1213	36.5664	9.6513	0.0874	2.2427	0.1908	2.4334	0.6454	0.1825	0.8279		9,516.6256	9,516.6256	0.7697		9,535.8678
Worker	5.4186	3.4136	46.1530	0.1542	15.7605	0.1042	15.8647	4.1798	0.0960	4.2757		15,369.6148	15,369.6148	0.3504		15,378.3741
Total	**6.5398**	**39.9800**	**55.8043**	**0.2416**	**18.0031**	**0.2950**	**18.2981**	**4.8251**	**0.2785**	**5.1036**		**24,886.2404**	**24,886.2404**	**1.1201**		**24,914.2418**

3.5 Building Construction - 2021

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	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**		**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

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	0.9366	32.9288	8.9304	0.0866	2.2426	0.0684	2.3110	0.6453	0.0654	0.7108		9,434.6169	9,434.6169	0.7398		9,453.1119
Worker	5.0892	3.0793	42.8258	0.1488	15.7605	0.1020	15.8625	4.1798	0.0939	4.2737		14,835.9375	14,835.9375	0.3177		14,843.8801
Total	**6.0258**	**36.0081**	**51.7562**	**0.2353**	**18.0031**	**0.1704**	**18.1735**	**4.8251**	**0.1593**	**4.9844**		**24,270.5544**	**24,270.5544**	**1.0575**		**24,296.9920**

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	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775	0.0000	4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**	**0.0000**	**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

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	0.9366	32.9288	8.9304	0.0866	2.2426	0.0684	2.3110	0.6453	0.0654	0.7108		9,434.6169	9,434.6169	0.7398		9,453.1119
Worker	5.0892	3.0793	42.8258	0.1488	15.7605	0.1020	15.8625	4.1798	0.0939	4.2737		14,835.9375	14,835.9375	0.3177		14,843.8801
Total	**6.0258**	**36.0081**	**51.7562**	**0.2353**	**18.0031**	**0.1704**	**18.1735**	**4.8251**	**0.1593**	**4.9844**		**24,270.5544**	**24,270.5544**	**1.0575**		**24,296.9920**

3.5 Building Construction - 2022

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	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**		**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

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	0.8806	31.1530	8.6231	0.0856	2.2425	0.0595	2.3020	0.6453	0.0569	0.7022		9,341.9566	9,341.9566	0.7166		9,359.8726
Worker	4.8097	2.7898	39.9704	0.1432	15.7605	0.1000	15.8605	4.1798	0.0921	4.2719		14,286.1373	14,286.1373	0.2885		14,293.3509
Total	**5.6903**	**33.9428**	**48.5934**	**0.2288**	**18.0030**	**0.1595**	**18.1625**	**4.8251**	**0.1490**	**4.9741**		**23,628.0940**	**23,628.0940**	**1.0052**		**23,653.2234**

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	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**	**0.0000**	**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

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	0.8806	31.1530	8.6231	0.0856	2.2425	0.0595	2.3020	0.6453	0.0569	0.7022		9,341.9566	9,341.9566	0.7166		9,359.8726
Worker	4.8097	2.7898	39.9704	0.1432	15.7605	0.1000	15.8605	4.1798	0.0921	4.2719		14,286.1373	14,286.1373	0.2885		14,293.3509
Total	**5.6903**	**33.9428**	**48.5934**	**0.2288**	**18.0030**	**0.1595**	**18.1625**	**4.8251**	**0.1490**	**4.9741**		**23,628.0940**	**23,628.0940**	**1.0052**		**23,653.2234**

3.6 Architectural Coating - 2022

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	47.8470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**48.1197**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

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	0.9619	0.5580	7.9941	0.0287	3.1521	0.0200	3.1721	0.8360	0.0184	0.8544		2,857.2275	2,857.2275	0.0577		2,858.6702
Total	**0.9619**	**0.5580**	**7.9941**	**0.0287**	**3.1521**	**0.0200**	**3.1721**	**0.8360**	**0.0184**	**0.8544**		**2,857.2275**	**2,857.2275**	**0.0577**		**2,858.6702**

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	47.8470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**48.1197**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

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	0.9619	0.5580	7.9941	0.0287	3.1521	0.0200	3.1721	0.8360	0.0184	0.8544		2,857.2275	2,857.2275	0.0577		2,858.6702
Total	**0.9619**	**0.5580**	**7.9941**	**0.0287**	**3.1521**	**0.0200**	**3.1721**	**0.8360**	**0.0184**	**0.8544**		**2,857.2275**	**2,857.2275**	**0.0577**		**2,858.6702**

3.7 Paving - 2022

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3258**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

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	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	**0.0512**	**0.0297**	**0.4252**	**1.5200e-003**	**0.1677**	**1.0600e-003**	**0.1687**	**0.0445**	**9.8000e-004**	**0.0455**		**151.9802**	**151.9802**	**3.0700e-003**		**152.0569**

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3258**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

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	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	**0.0512**	**0.0297**	**0.4252**	**1.5200e-003**	**0.1677**	**1.0600e-003**	**0.1687**	**0.0445**	**9.8000e-004**	**0.0455**		**151.9802**	**151.9802**	**3.0700e-003**		**152.0569**

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
Apartments Mid Rise	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Regional Shopping Center	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
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Fast Food Restaurant with Drive	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Quality Restaurant	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Fast Food Restaurant w/o Drive Thru	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Fast Food Restaurant with Drive Thru	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
High Turnover (Sit Down Restaurant)	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Other Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Quality Restaurant	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Regional Shopping Center	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

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					
Apartments Mid Rise	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
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	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
Fast Food Restaurant with Drive Thru	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
High Turnover (Sit Down Restaurant)	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	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
Regional Shopping Center	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**

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					
Apartments Mid Rise	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
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	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
Fast Food Restaurant with Drive Thru	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
High Turnover (Sit Down Restaurant)	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	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
Regional Shopping Center	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	32.9577	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258	0.0000	171.4580	171.4580	0.1665	0.0000	175.6194
Unmitigated	32.9577	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258	0.0000	171.4580	171.4580	0.1665	0.0000	175.6194

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	2.5111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.5508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8958	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258		171.4580	171.4580	0.1665		175.6194
Total	**32.9577**	**1.0980**	**95.2696**	**5.0300e-003**		**0.5258**	**0.5258**		**0.5258**	**0.5258**	**0.0000**	**171.4580**	**171.4580**	**0.1665**	**0.0000**	**175.6194**

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	2.5111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.5508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8958	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258		171.4580	171.4580	0.1665		175.6194
Total	**32.9577**	**1.0980**	**95.2696**	**5.0300e-003**		**0.5258**	**0.5258**		**0.5258**	**0.5258**	**0.0000**	**171.4580**	**171.4580**	**0.1665**	**0.0000**	**175.6194**

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

The Bowery Mixed-Use Project (Construction - Unmitigated)

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	2,424.00	Space	3.42	969,600.00	0
Other Asphalt Surfaces	166.98	1000sqft	3.83	166,981.00	0
Other Non-Asphalt Surfaces	174.56	1000sqft	4.01	174,555.00	0
Fast Food Restaurant w/o Drive Thru	2.00	1000sqft	0.05	2,000.00	0
Fast Food Restaurant with Drive Thru	10.00	1000sqft	0.23	10,000.00	0
High Turnover (Sit Down Restaurant)	25.00	1000sqft	0.57	25,000.00	0
Quality Restaurant	25.00	1000sqft	0.57	25,000.00	0
Apartments Mid Rise	1,150.00	Dwelling Unit	1.48	1,288,000.00	2081
Regional Shopping Center	18.00	1000sqft	0.41	18,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2022
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

The Bowery Mixed-Use Project (Construction - Unmitigated) - Orange County, Winter

Project Characteristics -

Land Use - Total Project Aread is 14.58 acres. Per the Project Description, at full occupany, the Project would house approximatley 2,081 residents.

Construction Phase - Construction Schedule adjusted to meet the 27-months of construction and the 2022 opening year.

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

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

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

Off-road Equipment -

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

Demolition -

Grading - For purposes of analysis, total acres graded per day is based on the equipment specific grading rates (CalEEMod Appendix A) and the equipment list.

Architectural Coating - Rule 1113

Vehicle Trips - Construcion Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Woodstoves - Construcion Run Only.

Energy Use - Construcion Run Only.

Water And Wastewater - Construcion Run Only.

Solid Waste - Construcion Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	45.00

tblConstructionPhase	NumDays	300.00	420.00
tblConstructionPhase	NumDays	20.00	180.00
tblConstructionPhase	NumDays	20.00	45.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	179.76	0.00
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	8.71	0.00

tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	5,911.46	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	977.50	0.00
tblFireplaces	NumberNoFireplace	115.00	0.00
tblFireplaces	NumberWood	57.50	0.00
tblGrading	AcresOfGrading	105.00	120.00
tblGrading	AcresOfGrading	90.00	157.50
tblLandUse	LandUseSquareFeet	1,150,000.00	1,288,000.00
tblLandUse	LotAcreage	21.82	3.42
tblLandUse	LotAcreage	30.26	1.48
tblLandUse	Population	3,289.00	2,081.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

tblSolidWaste	SolidWasteGenerationRate	529.00	0.00
tblSolidWaste	SolidWasteGenerationRate	23.04	0.00
tblSolidWaste	SolidWasteGenerationRate	115.19	0.00
tblSolidWaste	SolidWasteGenerationRate	297.50	0.00
tblSolidWaste	SolidWasteGenerationRate	22.81	0.00
tblSolidWaste	SolidWasteGenerationRate	18.90	0.00
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	2.24	5.67
tblVehicleEF	HHD	1.31	0.71
tblVehicleEF	HHD	4.03	0.01
tblVehicleEF	HHD	4,069.38	1,071.37
tblVehicleEF	HHD	1,661.35	1,472.58
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	18.80	5.84
tblVehicleEF	HHD	3.54	3.30
tblVehicleEF	HHD	0.02	3.7940e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.02	3.6300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006

tblVehicleEF	HHD	1.1400e-004	5.0000e-006
tblVehicleEF	HHD	4.7360e-003	2.0100e-004
tblVehicleEF	HHD	0.53	0.41
tblVehicleEF	HHD	8.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.12	0.07
tblVehicleEF	HHD	4.2900e-004	9.3000e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.04	9.8130e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9600e-004	1.0000e-006
tblVehicleEF	HHD	1.1400e-004	5.0000e-006
tblVehicleEF	HHD	4.7360e-003	2.0100e-004
tblVehicleEF	HHD	0.64	0.47
tblVehicleEF	HHD	8.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.30	0.22
tblVehicleEF	HHD	4.2900e-004	9.3000e-004
tblVehicleEF	HHD	0.10	5.0000e-006
tblVehicleEF	HHD	0.55	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.62	5.55
tblVehicleEF	HHD	1.31	0.71
tblVehicleEF	HHD	3.84	0.01
tblVehicleEF	HHD	4,310.95	1,068.30
tblVehicleEF	HHD	1,661.35	1,472.58
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	19.40	5.67

tblVehicleEF	HHD	3.35	3.12
tblVehicleEF	HHD	0.01	3.3070e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.01	3.1640e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	4.8280e-003	2.0400e-004
tblVehicleEF	HHD	0.50	0.43
tblVehicleEF	HHD	1.2000e-004	5.0000e-006
tblVehicleEF	HHD	0.12	0.07
tblVehicleEF	HHD	4.1400e-004	9.1300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.04	9.7840e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9300e-004	1.0000e-006
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	4.8280e-003	2.0400e-004
tblVehicleEF	HHD	0.60	0.50
tblVehicleEF	HHD	1.2000e-004	5.0000e-006
tblVehicleEF	HHD	0.30	0.22
tblVehicleEF	HHD	4.1400e-004	9.1300e-004

tblVehicleEF	HHD	0.10	4.0000e-006
tblVehicleEF	HHD	0.63	0.02
tblVehicleEF	HHD	0.16	2.9240e-003
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	3.08	5.67
tblVehicleEF	HHD	1.30	0.31
tblVehicleEF	HHD	4.07	0.01
tblVehicleEF	HHD	3,735.78	1,043.04
tblVehicleEF	HHD	1,661.35	1,373.81
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	17.96	5.87
tblVehicleEF	HHD	3.48	3.16
tblVehicleEF	HHD	0.02	4.0580e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.02	3.8830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.5030e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.1200e-004	5.0000e-006
tblVehicleEF	HHD	5.0860e-003	2.2300e-004
tblVehicleEF	HHD	0.58	0.38
tblVehicleEF	HHD	8.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.12	0.06

tblVehicleEF	HHD	4.6600e-004	9.9300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	9.8540e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9600e-004	1.0000e-006
tblVehicleEF	HHD	1.1200e-004	5.0000e-006
tblVehicleEF	HHD	5.0860e-003	2.2300e-004
tblVehicleEF	HHD	0.69	0.43
tblVehicleEF	HHD	8.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.30	0.07
tblVehicleEF	HHD	4.6600e-004	9.9300e-004
tblVehicleEF	HHD	0.10	5.0000e-006
tblVehicleEF	LDA	3.9360e-003	2.3280e-003
tblVehicleEF	LDA	4.5350e-003	0.05
tblVehicleEF	LDA	0.55	0.63
tblVehicleEF	LDA	1.00	2.05
tblVehicleEF	LDA	252.97	257.52
tblVehicleEF	LDA	56.16	52.62
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.9340e-003	8.8060e-003

tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.5330e-003	2.5470e-003
tblVehicleEF	LDA	5.7800e-004	5.2100e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1570e-003	2.4790e-003
tblVehicleEF	LDA	4.0770e-003	0.04
tblVehicleEF	LDA	0.60	0.68
tblVehicleEF	LDA	0.87	1.77
tblVehicleEF	LDA	263.60	268.06
tblVehicleEF	LDA	56.16	52.11
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	9.2950e-003
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.05	0.19

tblVehicleEF	LDA	2.6400e-003	2.6520e-003
tblVehicleEF	LDA	5.7600e-004	5.1600e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	3.8610e-003	2.2810e-003
tblVehicleEF	LDA	4.6290e-003	0.05
tblVehicleEF	LDA	0.53	0.61
tblVehicleEF	LDA	1.03	2.11
tblVehicleEF	LDA	249.05	253.63
tblVehicleEF	LDA	56.16	52.74
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.7480e-003	8.6410e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4930e-003	2.5090e-003
tblVehicleEF	LDA	5.7900e-004	5.2200e-004

tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	8.9890e-003	5.4220e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.10	1.13
tblVehicleEF	LDT1	2.48	2.24
tblVehicleEF	LDT1	313.91	304.64
tblVehicleEF	LDT1	69.94	63.35
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.24	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.62
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.1510e-003	3.0150e-003
tblVehicleEF	LDT1	7.4300e-004	6.2700e-004
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.24	0.18

tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.15	0.62
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	9.4340e-003	5.7300e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.18	1.22
tblVehicleEF	LDT1	2.14	1.93
tblVehicleEF	LDT1	326.59	315.43
tblVehicleEF	LDT1	69.94	62.74
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.57
tblVehicleEF	LDT1	0.15	0.29
tblVehicleEF	LDT1	3.2790e-003	3.1210e-003
tblVehicleEF	LDT1	7.3700e-004	6.2100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.04

tblVehicleEF	LDT1	0.14	0.57
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	8.8330e-003	5.3230e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.06	1.10
tblVehicleEF	LDT1	2.56	2.31
tblVehicleEF	LDT1	309.22	300.66
tblVehicleEF	LDT1	69.94	63.48
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.27	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.1040e-003	2.9750e-003
tblVehicleEF	LDT1	7.4400e-004	6.2800e-004
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.27	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.19	0.37

tblVehicleEF	LDT2	5.3680e-003	3.6520e-003
tblVehicleEF	LDT2	5.9420e-003	0.06
tblVehicleEF	LDT2	0.70	0.84
tblVehicleEF	LDT2	1.29	2.60
tblVehicleEF	LDT2	356.05	329.20
tblVehicleEF	LDT2	79.07	68.88
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.5650e-003	3.2570e-003
tblVehicleEF	LDT2	8.1200e-004	6.8200e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.6680e-003	3.8780e-003
tblVehicleEF	LDT2	5.3490e-003	0.06

tblVehicleEF	LDT2	0.76	0.92
tblVehicleEF	LDT2	1.12	2.24
tblVehicleEF	LDT2	370.66	339.75
tblVehicleEF	LDT2	79.07	68.21
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.05	0.36
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.7120e-003	3.3610e-003
tblVehicleEF	LDT2	8.0900e-004	6.7500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.36
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	5.2670e-003	3.5810e-003
tblVehicleEF	LDT2	6.0640e-003	0.07
tblVehicleEF	LDT2	0.68	0.82
tblVehicleEF	LDT2	1.32	2.68

tblVehicleEF	LDT2	350.66	325.31
tblVehicleEF	LDT2	79.07	69.03
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.08	0.30
tblVehicleEF	LDT2	3.5110e-003	3.2180e-003
tblVehicleEF	LDT2	8.1300e-004	6.8300e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LHD1	5.4230e-003	5.5990e-003
tblVehicleEF	LHD1	9.3000e-003	4.5130e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.70	0.51
tblVehicleEF	LHD1	2.36	1.04

tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.78
tblVehicleEF	LHD1	32.10	12.06
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.16	0.73
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	2.7120e-003	2.1290e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7400e-003	1.3620e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.28	0.44
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4010e-003
tblVehicleEF	LHD1	3.6600e-004	1.1900e-004
tblVehicleEF	LHD1	2.7120e-003	2.1290e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7400e-003	1.3620e-003

tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.28	0.44
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4230e-003	5.6110e-003
tblVehicleEF	LHD1	9.4800e-003	4.5890e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.71	0.52
tblVehicleEF	LHD1	2.26	1.00
tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.80
tblVehicleEF	LHD1	32.10	11.99
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.10	0.69
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	3.7830e-003	2.9790e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.3550e-003	1.8560e-003
tblVehicleEF	LHD1	0.06	0.04

tblVehicleEF	LHD1	0.27	0.43
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4020e-003
tblVehicleEF	LHD1	3.6400e-004	1.1900e-004
tblVehicleEF	LHD1	3.7830e-003	2.9790e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.3550e-003	1.8560e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.27	0.43
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.4230e-003	5.5970e-003
tblVehicleEF	LHD1	9.2520e-003	4.4920e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.70	0.51
tblVehicleEF	LHD1	2.38	1.05
tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.78
tblVehicleEF	LHD1	32.10	12.08
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.14	0.72
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004

tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	2.8100e-003	2.2130e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7580e-003	1.3810e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.48
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4010e-003
tblVehicleEF	LHD1	3.6600e-004	1.1900e-004
tblVehicleEF	LHD1	2.8100e-003	2.2130e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7580e-003	1.3810e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.48
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.9700e-003	4.0620e-003
tblVehicleEF	LHD2	3.7300e-003	3.3390e-003
tblVehicleEF	LHD2	8.2200e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.32	0.37
tblVehicleEF	LHD2	1.26	0.72

tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.64
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.75	0.83
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.0630e-003	1.3680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2900e-004	8.9600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.28
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9900e-004	9.5000e-005
tblVehicleEF	LHD2	1.0630e-003	1.3680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.2900e-004	8.9600e-004

tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.08	0.28
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.9700e-003	4.0700e-003
tblVehicleEF	LHD2	3.7710e-003	3.3710e-003
tblVehicleEF	LHD2	7.9600e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.33	0.37
tblVehicleEF	LHD2	1.21	0.69
tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.59
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.71	0.79
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.4890e-003	1.9160e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-004	1.2200e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.08	0.27
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9800e-004	9.5000e-005
tblVehicleEF	LHD2	1.4890e-003	1.9160e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	9.9000e-004	1.2200e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.08	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.9700e-003	4.0600e-003
tblVehicleEF	LHD2	3.7190e-003	3.3310e-003
tblVehicleEF	LHD2	8.2730e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.32	0.37
tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.65
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.74	0.82
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004

tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.0710e-003	1.3980e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2500e-004	8.9100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.31
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9900e-004	9.5000e-005
tblVehicleEF	LHD2	1.0710e-003	1.3980e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.2500e-004	8.9100e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.31
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.34	18.60
tblVehicleEF	MCY	9.57	8.45
tblVehicleEF	MCY	178.02	214.46
tblVehicleEF	MCY	44.92	59.78

tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.13	1.15
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.37	2.38
tblVehicleEF	MCY	0.64	2.00
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1510e-003	2.1220e-003
tblVehicleEF	MCY	6.6600e-004	5.9200e-004
tblVehicleEF	MCY	1.13	1.15
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.94	2.95
tblVehicleEF	MCY	0.64	2.00
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.67	17.90
tblVehicleEF	MCY	8.81	7.75
tblVehicleEF	MCY	178.02	213.15
tblVehicleEF	MCY	44.92	58.02
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	2.1850e-003	2.1650e-003

tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.70	1.73
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.11	1.13
tblVehicleEF	MCY	2.31	2.33
tblVehicleEF	MCY	0.60	1.87
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.1390e-003	2.1090e-003
tblVehicleEF	MCY	6.4700e-004	5.7400e-004
tblVehicleEF	MCY	1.70	1.73
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.11	1.13
tblVehicleEF	MCY	2.87	2.88
tblVehicleEF	MCY	0.60	1.87
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.44	18.70
tblVehicleEF	MCY	9.69	8.57
tblVehicleEF	MCY	178.02	214.66
tblVehicleEF	MCY	44.92	60.09
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003

tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.88	0.90
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.38	2.39
tblVehicleEF	MCY	0.73	2.30
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.1530e-003	2.1240e-003
tblVehicleEF	MCY	6.6900e-004	5.9500e-004
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.88	0.90
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.95	2.97
tblVehicleEF	MCY	0.73	2.30
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	4.7750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.13	0.98
tblVehicleEF	MDV	2.37	2.97
tblVehicleEF	MDV	484.17	407.06
tblVehicleEF	MDV	105.06	83.79
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.06	0.08

tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.18	0.37
tblVehicleEF	MDV	4.8480e-003	4.0240e-003
tblVehicleEF	MDV	1.0920e-003	8.2900e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	0.01	5.0630e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.22	1.07
tblVehicleEF	MDV	2.05	2.55
tblVehicleEF	MDV	503.46	418.11
tblVehicleEF	MDV	105.06	83.01
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12

tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.16	0.34
tblVehicleEF	MDV	5.0420e-003	4.1340e-003
tblVehicleEF	MDV	1.0860e-003	8.2100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.17	0.37
tblVehicleEF	MDV	9.9990e-003	4.6830e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.09	0.95
tblVehicleEF	MDV	2.43	3.06
tblVehicleEF	MDV	477.05	402.99
tblVehicleEF	MDV	105.06	83.96
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48

tblVehicleEF	MDV	0.18	0.38
tblVehicleEF	MDV	4.7760e-003	3.9840e-003
tblVehicleEF	MDV	1.0930e-003	8.3100e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.20	0.42
tblVehicleEF	MH	0.02	3.2780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.81	0.30
tblVehicleEF	MH	5.09	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.33	3.77
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	0.87	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.6000e-004	0.00
tblVehicleEF	MH	0.87	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.2780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.86	0.30
tblVehicleEF	MH	4.82	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.24	3.57
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	1.17	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.52	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.5500e-004	0.00
tblVehicleEF	MH	1.17	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.52	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.2780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.80	0.30
tblVehicleEF	MH	5.12	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.31	3.70
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	0.96	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.6000e-004	0.00
tblVehicleEF	MH	0.96	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MHD	0.02	4.8200e-003
tblVehicleEF	MHD	3.6730e-003	3.4120e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.35	0.38
tblVehicleEF	MHD	0.30	0.34
tblVehicleEF	MHD	5.52	1.25
tblVehicleEF	MHD	143.56	55.50
tblVehicleEF	MHD	1,140.06	1,052.30
tblVehicleEF	MHD	59.06	12.60
tblVehicleEF	MHD	0.51	0.35
tblVehicleEF	MHD	1.09	1.42
tblVehicleEF	MHD	1.9500e-004	8.6400e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	1.8700e-004	8.2600e-004
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.0560e-003	4.7900e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0400e-004	3.3300e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.3810e-003	5.2800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8700e-004	1.2500e-004
tblVehicleEF	MHD	1.0560e-003	4.7900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.0400e-004	3.3300e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.37	0.06
tblVehicleEF	MHD	0.01	4.5660e-003
tblVehicleEF	MHD	3.7140e-003	3.4420e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	0.30	0.35
tblVehicleEF	MHD	5.26	1.19
tblVehicleEF	MHD	152.06	56.12
tblVehicleEF	MHD	1,140.06	1,052.30
tblVehicleEF	MHD	59.06	12.50
tblVehicleEF	MHD	0.53	0.35
tblVehicleEF	MHD	1.03	1.34

tblVehicleEF	MHD	1.6400e-004	7.3000e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	1.5700e-004	6.9900e-004
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.4900e-003	6.7700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.7000e-004	4.5800e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	1.4610e-003	5.3400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8300e-004	1.2400e-004
tblVehicleEF	MHD	1.4900e-003	6.7700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.7000e-004	4.5800e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.02	5.1860e-003
tblVehicleEF	MHD	3.6600e-003	3.4020e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.48	0.49

tblVehicleEF	MHD	0.30	0.34
tblVehicleEF	MHD	5.56	1.26
tblVehicleEF	MHD	131.82	54.65
tblVehicleEF	MHD	1,140.06	1,052.29
tblVehicleEF	MHD	59.06	12.62
tblVehicleEF	MHD	0.49	0.36
tblVehicleEF	MHD	1.07	1.39
tblVehicleEF	MHD	2.3700e-004	1.0480e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	2.2700e-004	1.0030e-003
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.0870e-003	4.8400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.1300e-004	3.3300e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.2710e-003	5.2000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8800e-004	1.2500e-004
tblVehicleEF	MHD	1.0870e-003	4.8400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.1300e-004	3.3300e-004

tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	OBUS	0.01	8.7820e-003
tblVehicleEF	OBUS	7.3650e-003	6.7550e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.54
tblVehicleEF	OBUS	0.51	0.78
tblVehicleEF	OBUS	5.29	2.38
tblVehicleEF	OBUS	84.12	81.35
tblVehicleEF	OBUS	1,220.51	1,388.32
tblVehicleEF	OBUS	69.46	20.04
tblVehicleEF	OBUS	0.36	0.38
tblVehicleEF	OBUS	1.28	1.36
tblVehicleEF	OBUS	8.0000e-005	6.6700e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	7.7000e-005	6.3800e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.3980e-003	1.8310e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.5900e-004	9.7700e-004
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.23
tblVehicleEF	OBUS	0.33	0.12

tblVehicleEF	OBUS	8.1500e-004	7.7500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	1.9800e-004
tblVehicleEF	OBUS	1.3980e-003	1.8310e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5900e-004	9.7700e-004
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.23
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	0.01	8.8340e-003
tblVehicleEF	OBUS	7.4870e-003	6.8750e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.53
tblVehicleEF	OBUS	0.52	0.79
tblVehicleEF	OBUS	5.02	2.26
tblVehicleEF	OBUS	88.10	81.25
tblVehicleEF	OBUS	1,220.51	1,388.34
tblVehicleEF	OBUS	69.46	19.83
tblVehicleEF	OBUS	0.37	0.37
tblVehicleEF	OBUS	1.20	1.28
tblVehicleEF	OBUS	6.8000e-005	5.6700e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	6.5000e-005	5.4200e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004

tblVehicleEF	OBUS	1.9250e-003	2.5060e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.0420e-003	1.3300e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	8.5300e-004	7.7400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8300e-004	1.9600e-004
tblVehicleEF	OBUS	1.9250e-003	2.5060e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0420e-003	1.3300e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.7300e-003
tblVehicleEF	OBUS	7.3280e-003	6.7200e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.29	0.56
tblVehicleEF	OBUS	0.51	0.77
tblVehicleEF	OBUS	5.33	2.40
tblVehicleEF	OBUS	78.61	81.50
tblVehicleEF	OBUS	1,220.51	1,388.31
tblVehicleEF	OBUS	69.46	20.07
tblVehicleEF	OBUS	0.34	0.39

tblVehicleEF	OBUS	1.25	1.34
tblVehicleEF	OBUS	9.8000e-005	8.0600e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	9.4000e-005	7.7100e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.4220e-003	1.8770e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.5400e-004	9.7800e-004
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	7.6200e-004	7.7600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8800e-004	1.9900e-004
tblVehicleEF	OBUS	1.4220e-003	1.8770e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5400e-004	9.7800e-004
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.08	7.5320e-003

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tblVehicleEF	SBUS	9.2310e-003	5.6820e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	9.5800e-004	6.8000e-005
tblVehicleEF	SBUS	8.8310e-003	5.4370e-003
tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	8.8100e-004	6.2000e-005
tblVehicleEF	SBUS	3.4880e-003	1.1160e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.9230e-003	5.9300e-004
tblVehicleEF	SBUS	0.12	0.13
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.49	0.04
tblVehicleEF	SBUS	0.01	3.4160e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.1600e-004	6.0000e-005
tblVehicleEF	SBUS	3.4880e-003	1.1160e-003

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tblVehicleEF	SBUS	1.9230e-003	5.9300e-004
tblVehicleEF	SBUS	0.15	0.15
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.53	0.05
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.07	6.7680e-003
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tblVehicleEF	SBUS	1,081.97	1,111.81
tblVehicleEF	SBUS	55.54	5.78
tblVehicleEF	SBUS	9.39	3.81
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tblVehicleEF	SBUS	7.7820e-003	4.7960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	9.5800e-004	6.8000e-005
tblVehicleEF	SBUS	7.4450e-003	4.5880e-003
tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
tblVehicleEF	SBUS	0.02	0.04
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tblVehicleEF	SBUS	4.7790e-003	1.5260e-003
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tblVehicleEF	SBUS	2.6310e-003	8.0900e-004
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tblVehicleEF	SBUS	4.20	5.82
tblVehicleEF	SBUS	0.01	6.9070e-003

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tblVehicleEF	SBUS	0.02	0.04
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tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.8770e-003	5.7900e-004
tblVehicleEF	SBUS	0.12	0.13
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tblVehicleEF	SBUS	0.49	0.04
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tblVehicleEF	SBUS	0.01	0.01
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tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.03	2.8080e-003
tblVehicleEF	UBUS	1.2230e-003	4.4000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.03	2.6830e-003
tblVehicleEF	UBUS	1.1250e-003	4.1000e-005
tblVehicleEF	UBUS	5.9600e-003	2.9310e-003
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tblVehicleEF	UBUS	3.5870e-003	2.0490e-003
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tblVehicleEF	UBUS	8.6000e-003	4.3240e-003
tblVehicleEF	UBUS	1.5760e-003	2.2500e-004
tblVehicleEF	UBUS	5.9600e-003	2.9310e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	3.5870e-003	2.0490e-003
tblVehicleEF	UBUS	2.34	5.39
tblVehicleEF	UBUS	0.03	0.24
tblVehicleEF	UBUS	1.03	0.17
tblVehicleEF	UBUS	1.81	5.27

tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	8.48	41.16
tblVehicleEF	UBUS	11.11	1.61
tblVehicleEF	UBUS	1,815.92	2,086.92
tblVehicleEF	UBUS	135.00	22.33
tblVehicleEF	UBUS	4.09	0.47
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.03	2.8080e-003
tblVehicleEF	UBUS	1.2230e-003	4.4000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.03	2.6830e-003
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tblVehicleEF	UBUS	4.7760e-003	2.7270e-003
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tblVehicleEF	UBUS	0.03	0.21
tblVehicleEF	UBUS	0.87	0.14
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tblVehicleEF	UBUS	1.5510e-003	2.2100e-004
tblVehicleEF	UBUS	7.9960e-003	4.0010e-003
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tblVehicleEF	UBUS	4.7760e-003	2.7270e-003
tblVehicleEF	UBUS	2.34	5.39
tblVehicleEF	UBUS	0.03	0.21

tblVehicleEF	UBUS	0.95	0.16
tblVehicleEF	UBUS	1.81	5.27
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tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.03	2.8080e-003
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tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.03	2.6830e-003
tblVehicleEF	UBUS	1.1250e-003	4.1000e-005
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tblVehicleEF	UBUS	3.7560e-003	1.9370e-003
tblVehicleEF	UBUS	0.47	0.08
tblVehicleEF	UBUS	0.04	0.29
tblVehicleEF	UBUS	0.95	0.16
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tblVehicleEF	UBUS	1.5810e-003	2.2500e-004
tblVehicleEF	UBUS	6.6800e-003	2.7840e-003
tblVehicleEF	UBUS	0.11	0.04
tblVehicleEF	UBUS	3.7560e-003	1.9370e-003

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tblVehicleEF	UBUS	0.04	0.29
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tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
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tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
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tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
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tblVehicleTrips	CNW_TL	6.90	0.00
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tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00

tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
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tblVehicleTrips	CW_TTP	1.50	0.00
tblVehicleTrips	CW_TTP	2.20	0.00
tblVehicleTrips	CW_TTP	8.50	0.00
tblVehicleTrips	CW_TTP	12.00	0.00
tblVehicleTrips	CW_TTP	16.30	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	PR_TP	51.00	0.00
tblVehicleTrips	PR_TP	29.00	0.00
tblVehicleTrips	PR_TP	37.00	0.00
tblVehicleTrips	PR_TP	38.00	0.00
tblVehicleTrips	PR_TP	54.00	0.00
tblVehicleTrips	ST_TR	6.39	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	5.86	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	6.65	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	496.12	0.00

tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWater	IndoorWaterUseRate	74,927,129.46	0.00
tblWater	IndoorWaterUseRate	607,067.42	0.00
tblWater	IndoorWaterUseRate	3,035,337.12	0.00
tblWater	IndoorWaterUseRate	7,588,342.81	0.00
tblWater	IndoorWaterUseRate	7,588,342.81	0.00
tblWater	IndoorWaterUseRate	1,333,305.39	0.00
tblWater	OutdoorWaterUseRate	47,236,668.58	0.00
tblWater	OutdoorWaterUseRate	38,748.98	0.00
tblWater	OutdoorWaterUseRate	193,744.92	0.00
tblWater	OutdoorWaterUseRate	484,362.31	0.00
tblWater	OutdoorWaterUseRate	484,362.31	0.00
tblWater	OutdoorWaterUseRate	817,187.17	0.00
tblWoodstoves	NumberCatalytic	57.50	0.00
tblWoodstoves	NumberNoncatalytic	57.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2020	10.6574	76.9828	71.8650	0.2742	21.9792	2.7889	24.7681	10.3848	2.5658	12.9506	0.0000	27,943.1759	27,943.1759	2.2683	0.0000	27,999.8829
2021	9.8588	70.2008	67.5103	0.2683	18.0031	1.6493	19.6523	4.8251	1.5394	6.3644	0.0000	27,358.4974	27,358.4974	2.1975	0.0000	27,413.4360
2022	58.3918	66.3779	73.7260	0.2931	21.1551	1.5651	22.7202	5.6610	1.4678	7.1288	0.0000	29,823.3012	29,823.3012	2.2174	0.0000	29,878.7349
Maximum	**58.3918**	**76.9828**	**73.7260**	**0.2931**	**21.9792**	**2.7889**	**24.7681**	**10.3848**	**2.5658**	**12.9506**	**0.0000**	**29,823.3012**	**29,823.3012**	**2.2683**	**0.0000**	**29,878.7349**

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					
2020	10.6574	76.9828	71.8650	0.2742	18.0031	2.7889	19.9387	4.8251	2.5658	6.6484	0.0000	27,943.1759	27,943.1759	2.2683	0.0000	27,999.8829
2021	9.8588	70.2008	67.5103	0.2683	18.0031	1.6493	19.6523	4.8251	1.5394	6.3644	0.0000	27,358.4974	27,358.4974	2.1975	0.0000	27,413.4360
2022	58.3918	66.3779	73.7260	0.2931	21.1551	1.5651	22.7202	5.6610	1.4678	7.1288	0.0000	29,823.3012	29,823.3012	2.2174	0.0000	29,878.7349
Maximum	**58.3918**	**76.9828**	**73.7260**	**0.2931**	**21.1551**	**2.7889**	**22.7202**	**5.6610**	**2.5658**	**7.1288**	**0.0000**	**29,823.3012**	**29,823.3012**	**2.2683**	**0.0000**	**29,878.7349**

The Bowery Mixed-Use Project (Construction - Unmitigated) - Orange 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**	**6.50**	**0.00**	**7.19**	**26.64**	**0.00**	**23.83**	**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	32.9577	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258	0.0000	171.4580	171.4580	0.1665	0.0000	175.6194
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	**32.9577**	**1.0980**	**95.2696**	**5.0300e-003**	**0.0000**	**0.5258**	**0.5258**	**0.0000**	**0.5258**	**0.5258**	**0.0000**	**171.4580**	**171.4580**	**0.1665**	**0.0000**	**175.6194**

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	32.9577	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258	0.0000	171.4580	171.4580	0.1665	0.0000	175.6194
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	**32.9577**	**1.0980**	**95.2696**	**5.0300e-003**	**0.0000**	**0.5258**	**0.5258**	**0.0000**	**0.5258**	**0.5258**	**0.0000**	**171.4580**	**171.4580**	**0.1665**	**0.0000**	**175.6194**

	ROG	NOx	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	6/1/2020	7/10/2020	5	30	
2	Site Preparation	Site Preparation	7/11/2020	9/11/2020	5	45	
3	Grading	Grading	9/12/2020	10/23/2020	5	30	
4	Building Construction	Building Construction	10/24/2020	6/3/2022	5	420	
5	Architectural Coating	Architectural Coating	1/1/2022	9/9/2022	5	180	
6	Paving	Paving	6/4/2022	8/5/2022	5	45	

Acres of Grading (Site Preparation Phase): 157.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 11.26

Residential Indoor: 2,608,200; Residential Outdoor: 869,400; Non-Residential Indoor: 120,000; Non-Residential Outdoor: 40,000; Striped Parking Area: 78,668 (Architectural Coating – sqft)

OffRoad Equipment

The Bowery Mixed-Use Project (Construction - Unmitigated) - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	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	1,254.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,410.00	351.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	282.00	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 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0481	0.0000	9.0481	1.3700	0.0000	1.3700			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**9.0481**	**1.6587**	**10.7068**	**1.3700**	**1.5419**	**2.9118**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3235	11.6384	3.0577	0.0315	0.7278	0.0379	0.7657	0.1992	0.0363	0.2355		3,511.9521	3,511.9521	0.3784		3,521.4123
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	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		154.7432	154.7432	3.5300e-003		154.8314
Total	**0.3886**	**11.6783**	**3.5115**	**0.0331**	**0.8955**	**0.0390**	**0.9345**	**0.2437**	**0.0373**	**0.2810**		**3,666.6952**	**3,666.6952**	**0.3819**		**3,676.2437**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5288	0.0000	3.5288	0.5343	0.0000	0.5343			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**3.5288**	**1.6587**	**5.1875**	**0.5343**	**1.5419**	**2.0761**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3235	11.6384	3.0577	0.0315	0.7278	0.0379	0.7657	0.1992	0.0363	0.2355		3,511.9521	3,511.9521	0.3784		3,521.4123
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	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		154.7432	154.7432	3.5300e-003		154.8314
Total	**0.3886**	**11.6783**	**3.5115**	**0.0331**	**0.8955**	**0.0390**	**0.9345**	**0.2437**	**0.0373**	**0.2810**		**3,666.6952**	**3,666.6952**	**0.3819**		**3,676.2437**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7780	0.0000	21.7780	10.3315	0.0000	10.3315			0.0000			0.0000
Off-Road	5.5539	63.7874	22.3947	0.0570		2.7875	2.7875		2.5645	2.5645		5,523.5812	5,523.5812	1.7864		5,568.2421
Total	**5.5539**	**63.7874**	**22.3947**	**0.0570**	**21.7780**	**2.7875**	**24.5655**	**10.3315**	**2.5645**	**12.8960**		**5,523.5812**	**5,523.5812**	**1.7864**		**5,568.2421**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0782	0.0479	0.5446	1.8600e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2300e-003	0.0546		185.6918	185.6918	4.2400e-003		185.7977
Total	**0.0782**	**0.0479**	**0.5446**	**1.8600e-003**	**0.2012**	**1.3300e-003**	**0.2025**	**0.0534**	**1.2300e-003**	**0.0546**		**185.6918**	**185.6918**	**4.2400e-003**		**185.7977**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4934	0.0000	8.4934	4.0293	0.0000	4.0293			0.0000			0.0000
Off-Road	5.5539	63.7874	22.3947	0.0570		2.7875	2.7875		2.5645	2.5645	0.0000	5,523.5812	5,523.5812	1.7864		5,568.2421
Total	**5.5539**	**63.7874**	**22.3947**	**0.0570**	**8.4934**	**2.7875**	**11.2809**	**4.0293**	**2.5645**	**6.5938**	**0.0000**	**5,523.5812**	**5,523.5812**	**1.7864**		**5,568.2421**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0782	0.0479	0.5446	1.8600e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2300e-003	0.0546		185.6918	185.6918	4.2400e-003		185.7977
Total	**0.0782**	**0.0479**	**0.5446**	**1.8600e-003**	**0.2012**	**1.3300e-003**	**0.2025**	**0.0534**	**1.2300e-003**	**0.0546**		**185.6918**	**185.6918**	**4.2400e-003**		**185.7977**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.2641	0.0000	10.2641	3.7683	0.0000	3.7683			0.0000			0.0000
Off-Road	5.1888	60.8826	32.3988	0.0715		2.4690	2.4690		2.2714	2.2714		6,925.1051	6,925.1051	2.2397		6,981.0981
Total	**5.1888**	**60.8826**	**32.3988**	**0.0715**	**10.2641**	**2.4690**	**12.7331**	**3.7683**	**2.2714**	**6.0397**		**6,925.1051**	**6,925.1051**	**2.2397**		**6,981.0981**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	**0.0869**	**0.0532**	**0.6051**	**2.0700e-003**	**0.2236**	**1.4800e-003**	**0.2250**	**0.0593**	**1.3600e-003**	**0.0607**		**206.3242**	**206.3242**	**4.7100e-003**		**206.4419**

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					4.0030	0.0000	4.0030	1.4696	0.0000	1.4696			0.0000			0.0000
Off-Road	5.1888	60.8826	32.3988	0.0715		2.4690	2.4690		2.2714	2.2714	0.0000	6,925.1051	6,925.1051	2.2397		6,981.0981
Total	**5.1888**	**60.8826**	**32.3988**	**0.0715**	**4.0030**	**2.4690**	**6.4720**	**1.4696**	**2.2714**	**3.7411**	**0.0000**	**6,925.1051**	**6,925.1051**	**2.2397**		**6,981.0981**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	**0.0869**	**0.0532**	**0.6051**	**2.0700e-003**	**0.2236**	**1.4800e-003**	**0.2250**	**0.0593**	**1.3600e-003**	**0.0607**		**206.3242**	**206.3242**	**4.7100e-003**		**206.4419**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

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

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1709	36.5542	10.5786	0.0853	2.2427	0.1941	2.4367	0.6454	0.1856	0.8310		9,282.7580	9,282.7580	0.8085		9,302.9713
Worker	6.1234	3.7516	42.6577	0.1459	15.7605	0.1042	15.8647	4.1798	0.0960	4.2757		14,545.8582	14,545.8582	0.3319		14,554.1550
Total	**7.2943**	**40.3058**	**53.2364**	**0.2312**	**18.0031**	**0.2983**	**18.3014**	**4.8251**	**0.2816**	**5.1067**		**23,828.6162**	**23,828.6162**	**1.1404**		**23,857.1263**

Mitigated Construction On-Site

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

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.1709	36.5542	10.5786	0.0853	2.2427	0.1941	2.4367	0.6454	0.1856	0.8310		9,282.7580	9,282.7580	0.8085		9,302.9713
Worker	6.1234	3.7516	42.6577	0.1459	15.7605	0.1042	15.8647	4.1798	0.0960	4.2757		14,545.8582	14,545.8582	0.3319		14,554.1550
Total	**7.2943**	**40.3058**	**53.2364**	**0.2312**	**18.0031**	**0.2983**	**18.3014**	**4.8251**	**0.2816**	**5.1067**		**23,828.6162**	**23,828.6162**	**1.1404**		**23,857.1263**

3.5 Building Construction - 2021

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	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775		4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**		**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

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	0.9831	32.8512	9.7973	0.0845	2.2426	0.0710	2.3135	0.6453	0.0679	0.7132		9,202.8338	9,202.8338	0.7760		9,222.2333
Worker	5.7619	3.3837	39.5178	0.1408	15.7605	0.1020	15.8625	4.1798	0.0939	4.2737		14,041.2339	14,041.2339	0.3007		14,048.7507
Total	**6.7450**	**36.2349**	**49.3151**	**0.2253**	**18.0031**	**0.1730**	**18.1760**	**4.8251**	**0.1618**	**4.9869**		**23,244.0677**	**23,244.0677**	**1.0767**		**23,270.9840**

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	3.1137	33.9659	18.1952	0.0430		1.4763	1.4763		1.3775	1.3775	0.0000	4,114.4297	4,114.4297	1.1209		4,142.4520
Total	**3.1137**	**33.9659**	**18.1952**	**0.0430**		**1.4763**	**1.4763**		**1.3775**	**1.3775**	**0.0000**	**4,114.4297**	**4,114.4297**	**1.1209**		**4,142.4520**

3.5 Building Construction - 2021

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	0.9831	32.8512	9.7973	0.0845	2.2426	0.0710	2.3135	0.6453	0.0679	0.7132		9,202.8338	9,202.8338	0.7760		9,222.2333
Worker	5.7619	3.3837	39.5178	0.1408	15.7605	0.1020	15.8625	4.1798	0.0939	4.2737		14,041.2339	14,041.2339	0.3007		14,048.7507
Total	**6.7450**	**36.2349**	**49.3151**	**0.2253**	**18.0031**	**0.1730**	**18.1760**	**4.8251**	**0.1618**	**4.9869**		**23,244.0677**	**23,244.0677**	**1.0767**		**23,270.9840**

3.5 Building Construction - 2022

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	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892		4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**		**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

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	0.9244	31.0582	9.4465	0.0835	2.2425	0.0618	2.3043	0.6453	0.0591	0.7044		9,111.5840	9,111.5840	0.7502		9,130.3399
Worker	5.4596	3.0651	36.8263	0.1356	15.7605	0.1000	15.8605	4.1798	0.0921	4.2719		13,521.6007	13,521.6007	0.2729		13,528.4222
Total	**6.3840**	**34.1233**	**46.2729**	**0.2191**	**18.0030**	**0.1618**	**18.1648**	**4.8251**	**0.1512**	**4.9763**		**22,633.1848**	**22,633.1848**	**1.0231**		**22,658.7621**

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	2.7963	29.7637	17.6698	0.0430		1.2743	1.2743		1.1892	1.1892	0.0000	4,110.5322	4,110.5322	1.1153		4,138.4135
Total	**2.7963**	**29.7637**	**17.6698**	**0.0430**		**1.2743**	**1.2743**		**1.1892**	**1.1892**	**0.0000**	**4,110.5322**	**4,110.5322**	**1.1153**		**4,138.4135**

3.5 Building Construction - 2022

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	0.9244	31.0582	9.4465	0.0835	2.2425	0.0618	2.3043	0.6453	0.0591	0.7044		9,111.5840	9,111.5840	0.7502		9,130.3399
Worker	5.4596	3.0651	36.8263	0.1356	15.7605	0.1000	15.8605	4.1798	0.0921	4.2719		13,521.6007	13,521.6007	0.2729		13,528.4222
Total	**6.3840**	**34.1233**	**46.2729**	**0.2191**	**18.0030**	**0.1618**	**18.1648**	**4.8251**	**0.1512**	**4.9763**		**22,633.1848**	**22,633.1848**	**1.0231**		**22,658.7621**

3.6 Architectural Coating - 2022

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	47.8470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**48.1197**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

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	1.0919	0.6130	7.3653	0.0271	3.1521	0.0200	3.1721	0.8360	0.0184	0.8544		2,704.3202	2,704.3202	0.0546		2,705.6844
Total	**1.0919**	**0.6130**	**7.3653**	**0.0271**	**3.1521**	**0.0200**	**3.1721**	**0.8360**	**0.0184**	**0.8544**		**2,704.3202**	**2,704.3202**	**0.0546**		**2,705.6844**

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	47.8470					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**48.1197**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

3.6 Architectural Coating - 2022

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	1.0919	0.6130	7.3653	0.0271	3.1521	0.0200	3.1721	0.8360	0.0184	0.8544		2,704.3202	2,704.3202	0.0546		2,705.6844
Total	**1.0919**	**0.6130**	**7.3653**	**0.0271**	**3.1521**	**0.0200**	**3.1721**	**0.8360**	**0.0184**	**0.8544**		**2,704.3202**	**2,704.3202**	**0.0546**		**2,705.6844**

3.7 Paving - 2022

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3258**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

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	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.0581**	**0.0326**	**0.3918**	**1.4400e-003**	**0.1677**	**1.0600e-003**	**0.1687**	**0.0445**	**9.8000e-004**	**0.0455**		**143.8468**	**143.8468**	**2.9000e-003**		**143.9194**

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3258**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.7 Paving - 2022

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	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.0581**	**0.0326**	**0.3918**	**1.4400e-003**	**0.1677**	**1.0600e-003**	**0.1687**	**0.0445**	**9.8000e-004**	**0.0455**		**143.8468**	**143.8468**	**2.9000e-003**		**143.9194**

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
Apartments Mid Rise	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Regional Shopping Center	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
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Fast Food Restaurant with Drive	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Quality Restaurant	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Fast Food Restaurant w/o Drive Thru	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Fast Food Restaurant with Drive Thru	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
High Turnover (Sit Down Restaurant)	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Other Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Quality Restaurant	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Regional Shopping Center	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

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					
Apartments Mid Rise	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
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	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
Fast Food Restaurant with Drive Thru	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
High Turnover (Sit Down Restaurant)	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	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
Regional Shopping Center	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**

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					
Apartments Mid Rise	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
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	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
Fast Food Restaurant with Drive Thru	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
High Turnover (Sit Down Restaurant)	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	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
Regional Shopping Center	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	32.9577	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258	0.0000	171.4580	171.4580	0.1665	0.0000	175.6194
Unmitigated	32.9577	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258	0.0000	171.4580	171.4580	0.1665	0.0000	175.6194

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	2.5111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.5508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8958	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258		171.4580	171.4580	0.1665		175.6194
Total	**32.9577**	**1.0980**	**95.2696**	**5.0300e-003**		**0.5258**	**0.5258**		**0.5258**	**0.5258**	**0.0000**	**171.4580**	**171.4580**	**0.1665**	**0.0000**	**175.6194**

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	2.5111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.5508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8958	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258		171.4580	171.4580	0.1665		175.6194
Total	**32.9577**	**1.0980**	**95.2696**	**5.0300e-003**		**0.5258**	**0.5258**		**0.5258**	**0.5258**	**0.0000**	**171.4580**	**171.4580**	**0.1665**	**0.0000**	**175.6194**

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

APPENDIX 3.2:

CALEEMOD OPERATIONAL EMISSIONS MODEL OUTPUTS

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The Bowery Mixed-Use Project (Operations)

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	2,424.00	Space	3.42	969,600.00	0
Other Asphalt Surfaces	166.98	1000sqft	3.83	166,981.00	0
Other Non-Asphalt Surfaces	174.56	1000sqft	4.01	174,555.00	0
Fast Food Restaurant w/o Drive Thru	2.00	1000sqft	0.05	2,000.00	0
Fast Food Restaurant with Drive Thru	10.00	1000sqft	0.23	10,000.00	0
High Turnover (Sit Down Restaurant)	25.00	1000sqft	0.57	25,000.00	0
Quality Restaurant	25.00	1000sqft	0.57	25,000.00	0
Apartments Mid Rise	1,150.00	Dwelling Unit	1.48	1,288,000.00	2081
Regional Shopping Center	18.00	1000sqft	0.41	18,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2022
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

The Bowery Mixed-Use Project (Operations) - Orange County, Summer

Project Characteristics -

Land Use - Total Project Aread is 14.58 acres. Per the Project Description, at full occupany, the Project would house approximatley 2,081 residents.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates and Trip Purpose based on information provided in the Trip Generation.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Woodstoves - Rule 443

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFireplaces	NumberGas	977.50	1,150.00
tblFireplaces	NumberNoFireplace	115.00	0.00
tblFireplaces	NumberWood	57.50	0.00
tblLandUse	LandUseSquareFeet	1,150,000.00	1,288,000.00
tblLandUse	LotAcreage	21.82	3.42
tblLandUse	LotAcreage	30.26	1.48
tblLandUse	Population	3,289.00	2,081.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	2.24	5.67

tblVehicleEF	HHD	1.31	0.71
tblVehicleEF	HHD	4.03	0.01
tblVehicleEF	HHD	4,069.38	1,071.37
tblVehicleEF	HHD	1,661.35	1,472.58
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	18.80	5.84
tblVehicleEF	HHD	3.54	3.30
tblVehicleEF	HHD	0.02	3.7940e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.02	3.6300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.1400e-004	5.0000e-006
tblVehicleEF	HHD	4.7360e-003	2.0100e-004
tblVehicleEF	HHD	0.53	0.41
tblVehicleEF	HHD	8.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.12	0.07
tblVehicleEF	HHD	4.2900e-004	9.3000e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.04	9.8130e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9600e-004	1.0000e-006

tblVehicleEF	HHD	1.1400e-004	5.0000e-006
tblVehicleEF	HHD	4.7360e-003	2.0100e-004
tblVehicleEF	HHD	0.64	0.47
tblVehicleEF	HHD	8.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.30	0.22
tblVehicleEF	HHD	4.2900e-004	9.3000e-004
tblVehicleEF	HHD	0.10	5.0000e-006
tblVehicleEF	HHD	0.55	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.62	5.55
tblVehicleEF	HHD	1.31	0.71
tblVehicleEF	HHD	3.84	0.01
tblVehicleEF	HHD	4,310.95	1,068.30
tblVehicleEF	HHD	1,661.35	1,472.58
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	19.40	5.67
tblVehicleEF	HHD	3.35	3.12
tblVehicleEF	HHD	0.01	3.3070e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.01	3.1640e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.03

tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	4.8280e-003	2.0400e-004
tblVehicleEF	HHD	0.50	0.43
tblVehicleEF	HHD	1.2000e-004	5.0000e-006
tblVehicleEF	HHD	0.12	0.07
tblVehicleEF	HHD	4.1400e-004	9.1300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.04	9.7840e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9300e-004	1.0000e-006
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	4.8280e-003	2.0400e-004
tblVehicleEF	HHD	0.60	0.50
tblVehicleEF	HHD	1.2000e-004	5.0000e-006
tblVehicleEF	HHD	0.30	0.22
tblVehicleEF	HHD	4.1400e-004	9.1300e-004
tblVehicleEF	HHD	0.10	4.0000e-006
tblVehicleEF	HHD	0.63	0.02
tblVehicleEF	HHD	0.16	2.9240e-003
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	3.08	5.67
tblVehicleEF	HHD	1.30	0.31
tblVehicleEF	HHD	4.07	0.01
tblVehicleEF	HHD	3,735.78	1,043.04
tblVehicleEF	HHD	1,661.35	1,373.81
tblVehicleEF	HHD	12.98	0.08

tblVehicleEF	HHD	17.96	5.87
tblVehicleEF	HHD	3.48	3.16
tblVehicleEF	HHD	0.02	4.0580e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.02	3.8830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.5030e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.1200e-004	5.0000e-006
tblVehicleEF	HHD	5.0860e-003	2.2300e-004
tblVehicleEF	HHD	0.58	0.38
tblVehicleEF	HHD	8.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.12	0.06
tblVehicleEF	HHD	4.6600e-004	9.9300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	9.8540e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9600e-004	1.0000e-006
tblVehicleEF	HHD	1.1200e-004	5.0000e-006
tblVehicleEF	HHD	5.0860e-003	2.2300e-004
tblVehicleEF	HHD	0.69	0.43
tblVehicleEF	HHD	8.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.30	0.07

tblVehicleEF	HHD	4.6600e-004	9.9300e-004
tblVehicleEF	HHD	0.10	5.0000e-006
tblVehicleEF	LDA	3.9360e-003	2.3280e-003
tblVehicleEF	LDA	4.5350e-003	0.05
tblVehicleEF	LDA	0.55	0.63
tblVehicleEF	LDA	1.00	2.05
tblVehicleEF	LDA	252.97	257.52
tblVehicleEF	LDA	56.16	52.62
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.9340e-003	8.8060e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.5330e-003	2.5470e-003
tblVehicleEF	LDA	5.7800e-004	5.2100e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23

tblVehicleEF	LDA	4.1570e-003	2.4790e-003
tblVehicleEF	LDA	4.0770e-003	0.04
tblVehicleEF	LDA	0.60	0.68
tblVehicleEF	LDA	0.87	1.77
tblVehicleEF	LDA	263.60	268.06
tblVehicleEF	LDA	56.16	52.11
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	9.2950e-003
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	2.6400e-003	2.6520e-003
tblVehicleEF	LDA	5.7600e-004	5.1600e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	3.8610e-003	2.2810e-003
tblVehicleEF	LDA	4.6290e-003	0.05

tblVehicleEF	LDA	0.53	0.61
tblVehicleEF	LDA	1.03	2.11
tblVehicleEF	LDA	249.05	253.63
tblVehicleEF	LDA	56.16	52.74
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.7480e-003	8.6410e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4930e-003	2.5090e-003
tblVehicleEF	LDA	5.7900e-004	5.2200e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	8.9890e-003	5.4220e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.10	1.13
tblVehicleEF	LDT1	2.48	2.24

tblVehicleEF	LDT1	313.91	304.64
tblVehicleEF	LDT1	69.94	63.35
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.24	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.62
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.1510e-003	3.0150e-003
tblVehicleEF	LDT1	7.4300e-004	6.2700e-004
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.24	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.15	0.62
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	9.4340e-003	5.7300e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.18	1.22
tblVehicleEF	LDT1	2.14	1.93
tblVehicleEF	LDT1	326.59	315.43
tblVehicleEF	LDT1	69.94	62.74

tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.57
tblVehicleEF	LDT1	0.15	0.29
tblVehicleEF	LDT1	3.2790e-003	3.1210e-003
tblVehicleEF	LDT1	7.3700e-004	6.2100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.14	0.57
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	8.8330e-003	5.3230e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.06	1.10
tblVehicleEF	LDT1	2.56	2.31
tblVehicleEF	LDT1	309.22	300.66
tblVehicleEF	LDT1	69.94	63.48
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003

tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.27	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.1040e-003	2.9750e-003
tblVehicleEF	LDT1	7.4400e-004	6.2800e-004
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.27	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.19	0.37
tblVehicleEF	LDT2	5.3680e-003	3.6520e-003
tblVehicleEF	LDT2	5.9420e-003	0.06
tblVehicleEF	LDT2	0.70	0.84
tblVehicleEF	LDT2	1.29	2.60
tblVehicleEF	LDT2	356.05	329.20
tblVehicleEF	LDT2	79.07	68.88
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003

tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.5650e-003	3.2570e-003
tblVehicleEF	LDT2	8.1200e-004	6.8200e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.6680e-003	3.8780e-003
tblVehicleEF	LDT2	5.3490e-003	0.06
tblVehicleEF	LDT2	0.76	0.92
tblVehicleEF	LDT2	1.12	2.24
tblVehicleEF	LDT2	370.66	339.75
tblVehicleEF	LDT2	79.07	68.21
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.06	0.10

tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.05	0.36
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.7120e-003	3.3610e-003
tblVehicleEF	LDT2	8.0900e-004	6.7500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.36
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	5.2670e-003	3.5810e-003
tblVehicleEF	LDT2	6.0640e-003	0.07
tblVehicleEF	LDT2	0.68	0.82
tblVehicleEF	LDT2	1.32	2.68
tblVehicleEF	LDT2	350.66	325.31
tblVehicleEF	LDT2	79.07	69.03
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07

tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.08	0.30
tblVehicleEF	LDT2	3.5110e-003	3.2180e-003
tblVehicleEF	LDT2	8.1300e-004	6.8300e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LHD1	5.4230e-003	5.5990e-003
tblVehicleEF	LHD1	9.3000e-003	4.5130e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.70	0.51
tblVehicleEF	LHD1	2.36	1.04
tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.78
tblVehicleEF	LHD1	32.10	12.06
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.16	0.73
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004

tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	2.7120e-003	2.1290e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7400e-003	1.3620e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.28	0.44
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4010e-003
tblVehicleEF	LHD1	3.6600e-004	1.1900e-004
tblVehicleEF	LHD1	2.7120e-003	2.1290e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7400e-003	1.3620e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.28	0.44
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4230e-003	5.6110e-003
tblVehicleEF	LHD1	9.4800e-003	4.5890e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.71	0.52
tblVehicleEF	LHD1	2.26	1.00
tblVehicleEF	LHD1	9.04	9.00

tblVehicleEF	LHD1	595.62	655.80
tblVehicleEF	LHD1	32.10	11.99
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.10	0.69
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	3.7830e-003	2.9790e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.3550e-003	1.8560e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.27	0.43
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4020e-003
tblVehicleEF	LHD1	3.6400e-004	1.1900e-004
tblVehicleEF	LHD1	3.7830e-003	2.9790e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.3550e-003	1.8560e-003
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.27	0.43
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.4230e-003	5.5970e-003
tblVehicleEF	LHD1	9.2520e-003	4.4920e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.70	0.51
tblVehicleEF	LHD1	2.38	1.05
tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.78
tblVehicleEF	LHD1	32.10	12.08
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.14	0.72
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	2.8100e-003	2.2130e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7580e-003	1.3810e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.48

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4010e-003
tblVehicleEF	LHD1	3.6600e-004	1.1900e-004
tblVehicleEF	LHD1	2.8100e-003	2.2130e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7580e-003	1.3810e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.48
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.9700e-003	4.0620e-003
tblVehicleEF	LHD2	3.7300e-003	3.3390e-003
tblVehicleEF	LHD2	8.2200e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.32	0.37
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.64
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.75	0.83
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003

tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.0630e-003	1.3680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2900e-004	8.9600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.28
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9900e-004	9.5000e-005
tblVehicleEF	LHD2	1.0630e-003	1.3680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.2900e-004	8.9600e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.08	0.28
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.9700e-003	4.0700e-003
tblVehicleEF	LHD2	3.7710e-003	3.3710e-003
tblVehicleEF	LHD2	7.9600e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.33	0.37
tblVehicleEF	LHD2	1.21	0.69
tblVehicleEF	LHD2	13.68	13.58

tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.59
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.71	0.79
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.4890e-003	1.9160e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-004	1.2200e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.27
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9800e-004	9.5000e-005
tblVehicleEF	LHD2	1.4890e-003	1.9160e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	9.9000e-004	1.2200e-003
tblVehicleEF	LHD2	0.05	0.05

tblVehicleEF	LHD2	0.08	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.9700e-003	4.0600e-003
tblVehicleEF	LHD2	3.7190e-003	3.3310e-003
tblVehicleEF	LHD2	8.2730e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.32	0.37
tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.65
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.74	0.82
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.0710e-003	1.3980e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2500e-004	8.9100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.31

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9900e-004	9.5000e-005
tblVehicleEF	LHD2	1.0710e-003	1.3980e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.2500e-004	8.9100e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.09	0.31
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.34	18.60
tblVehicleEF	MCY	9.57	8.45
tblVehicleEF	MCY	178.02	214.46
tblVehicleEF	MCY	44.92	59.78
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.13	1.15
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.37	2.38
tblVehicleEF	MCY	0.64	2.00

tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1510e-003	2.1220e-003
tblVehicleEF	MCY	6.6600e-004	5.9200e-004
tblVehicleEF	MCY	1.13	1.15
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.94	2.95
tblVehicleEF	MCY	0.64	2.00
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.67	17.90
tblVehicleEF	MCY	8.81	7.75
tblVehicleEF	MCY	178.02	213.15
tblVehicleEF	MCY	44.92	58.02
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.70	1.73
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.11	1.13
tblVehicleEF	MCY	2.31	2.33
tblVehicleEF	MCY	0.60	1.87
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.1390e-003	2.1090e-003

tblVehicleEF	MCY	6.4700e-004	5.7400e-004
tblVehicleEF	MCY	1.70	1.73
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.11	1.13
tblVehicleEF	MCY	2.87	2.88
tblVehicleEF	MCY	0.60	1.87
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.44	18.70
tblVehicleEF	MCY	9.69	8.57
tblVehicleEF	MCY	178.02	214.66
tblVehicleEF	MCY	44.92	60.09
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.88	0.90
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.38	2.39
tblVehicleEF	MCY	0.73	2.30
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.1530e-003	2.1240e-003
tblVehicleEF	MCY	6.6900e-004	5.9500e-004
tblVehicleEF	MCY	1.26	1.28

tblVehicleEF	MCY	0.88	0.90
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.95	2.97
tblVehicleEF	MCY	0.73	2.30
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	4.7750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.13	0.98
tblVehicleEF	MDV	2.37	2.97
tblVehicleEF	MDV	484.17	407.06
tblVehicleEF	MDV	105.06	83.79
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.18	0.37
tblVehicleEF	MDV	4.8480e-003	4.0240e-003
tblVehicleEF	MDV	1.0920e-003	8.2900e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	0.01	5.0630e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.22	1.07
tblVehicleEF	MDV	2.05	2.55
tblVehicleEF	MDV	503.46	418.11
tblVehicleEF	MDV	105.06	83.01
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.16	0.34
tblVehicleEF	MDV	5.0420e-003	4.1340e-003
tblVehicleEF	MDV	1.0860e-003	8.2100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.38

tblVehicleEF	MDV	0.17	0.37
tblVehicleEF	MDV	9.9990e-003	4.6830e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.09	0.95
tblVehicleEF	MDV	2.43	3.06
tblVehicleEF	MDV	477.05	402.99
tblVehicleEF	MDV	105.06	83.96
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.18	0.38
tblVehicleEF	MDV	4.7760e-003	3.9840e-003
tblVehicleEF	MDV	1.0930e-003	8.3100e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.20	0.42
tblVehicleEF	MH	0.02	3.2780e-003

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tblVehicleEF	MH	1.81	0.30
tblVehicleEF	MH	5.09	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.33	3.77
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	0.87	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.6000e-004	0.00
tblVehicleEF	MH	0.87	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.2780e-003

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tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.24	3.57
tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	1.17	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.52	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.5500e-004	0.00
tblVehicleEF	MH	1.17	0.00
tblVehicleEF	MH	0.06	0.00
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tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.2780e-003

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.80	0.30
tblVehicleEF	MH	5.12	0.00
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tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.31	3.70
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	0.96	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.6000e-004	0.00
tblVehicleEF	MH	0.96	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MHD	0.02	4.8200e-003

tblVehicleEF	MHD	3.6730e-003	3.4120e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.35	0.38
tblVehicleEF	MHD	0.30	0.34
tblVehicleEF	MHD	5.52	1.25
tblVehicleEF	MHD	143.56	55.50
tblVehicleEF	MHD	1,140.06	1,052.30
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tblVehicleEF	MHD	1.09	1.42
tblVehicleEF	MHD	1.9500e-004	8.6400e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	1.8700e-004	8.2600e-004
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.0560e-003	4.7900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0400e-004	3.3300e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.3810e-003	5.2800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8700e-004	1.2500e-004
tblVehicleEF	MHD	1.0560e-003	4.7900e-004

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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.0400e-004	3.3300e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.37	0.06
tblVehicleEF	MHD	0.01	4.5660e-003
tblVehicleEF	MHD	3.7140e-003	3.4420e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	0.30	0.35
tblVehicleEF	MHD	5.26	1.19
tblVehicleEF	MHD	152.06	56.12
tblVehicleEF	MHD	1,140.06	1,052.30
tblVehicleEF	MHD	59.06	12.50
tblVehicleEF	MHD	0.53	0.35
tblVehicleEF	MHD	1.03	1.34
tblVehicleEF	MHD	1.6400e-004	7.3000e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	1.5700e-004	6.9900e-004
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.4900e-003	6.7700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.7000e-004	4.5800e-004

tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	1.4610e-003	5.3400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8300e-004	1.2400e-004
tblVehicleEF	MHD	1.4900e-003	6.7700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.7000e-004	4.5800e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.02	5.1860e-003
tblVehicleEF	MHD	3.6600e-003	3.4020e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.48	0.49
tblVehicleEF	MHD	0.30	0.34
tblVehicleEF	MHD	5.56	1.26
tblVehicleEF	MHD	131.82	54.65
tblVehicleEF	MHD	1,140.06	1,052.29
tblVehicleEF	MHD	59.06	12.62
tblVehicleEF	MHD	0.49	0.36
tblVehicleEF	MHD	1.07	1.39
tblVehicleEF	MHD	2.3700e-004	1.0480e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004

tblVehicleEF	MHD	2.2700e-004	1.0030e-003
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.0870e-003	4.8400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.1300e-004	3.3300e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.2710e-003	5.2000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8800e-004	1.2500e-004
tblVehicleEF	MHD	1.0870e-003	4.8400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.1300e-004	3.3300e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	OBUS	0.01	8.7820e-003
tblVehicleEF	OBUS	7.3650e-003	6.7550e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.54
tblVehicleEF	OBUS	0.51	0.78
tblVehicleEF	OBUS	5.29	2.38
tblVehicleEF	OBUS	84.12	81.35

tblVehicleEF	OBUS	1,220.51	1,388.32
tblVehicleEF	OBUS	69.46	20.04
tblVehicleEF	OBUS	0.36	0.38
tblVehicleEF	OBUS	1.28	1.36
tblVehicleEF	OBUS	8.0000e-005	6.6700e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	7.7000e-005	6.3800e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.3980e-003	1.8310e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.5900e-004	9.7700e-004
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.23
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	8.1500e-004	7.7500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	1.9800e-004
tblVehicleEF	OBUS	1.3980e-003	1.8310e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5900e-004	9.7700e-004
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.23
tblVehicleEF	OBUS	0.36	0.13

tblVehicleEF	OBUS	0.01	8.8340e-003
tblVehicleEF	OBUS	7.4870e-003	6.8750e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.53
tblVehicleEF	OBUS	0.52	0.79
tblVehicleEF	OBUS	5.02	2.26
tblVehicleEF	OBUS	88.10	81.25
tblVehicleEF	OBUS	1,220.51	1,388.34
tblVehicleEF	OBUS	69.46	19.83
tblVehicleEF	OBUS	0.37	0.37
tblVehicleEF	OBUS	1.20	1.28
tblVehicleEF	OBUS	6.8000e-005	5.6700e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	6.5000e-005	5.4200e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.9250e-003	2.5060e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.0420e-003	1.3300e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	8.5300e-004	7.7400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8300e-004	1.9600e-004

tblVehicleEF	OBUS	1.9250e-003	2.5060e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0420e-003	1.3300e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.7300e-003
tblVehicleEF	OBUS	7.3280e-003	6.7200e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.29	0.56
tblVehicleEF	OBUS	0.51	0.77
tblVehicleEF	OBUS	5.33	2.40
tblVehicleEF	OBUS	78.61	81.50
tblVehicleEF	OBUS	1,220.51	1,388.31
tblVehicleEF	OBUS	69.46	20.07
tblVehicleEF	OBUS	0.34	0.39
tblVehicleEF	OBUS	1.25	1.34
tblVehicleEF	OBUS	9.8000e-005	8.0600e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	9.4000e-005	7.7100e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.4220e-003	1.8770e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05

tblVehicleEF	OBUS	7.5400e-004	9.7800e-004
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	7.6200e-004	7.7600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8800e-004	1.9900e-004
tblVehicleEF	OBUS	1.4220e-003	1.8770e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5400e-004	9.7800e-004
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.37	0.13
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.08	7.5320e-003
tblVehicleEF	SBUS	8.26	2.97
tblVehicleEF	SBUS	1.11	0.97
tblVehicleEF	SBUS	9.29	1.05
tblVehicleEF	SBUS	1,115.75	357.72
tblVehicleEF	SBUS	1,081.97	1,111.78
tblVehicleEF	SBUS	55.54	6.09
tblVehicleEF	SBUS	9.10	3.71
tblVehicleEF	SBUS	4.28	5.92
tblVehicleEF	SBUS	9.2310e-003	5.6820e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	9.5800e-004	6.8000e-005
tblVehicleEF	SBUS	8.8310e-003	5.4370e-003
tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	8.8100e-004	6.2000e-005
tblVehicleEF	SBUS	3.4880e-003	1.1160e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.9230e-003	5.9300e-004
tblVehicleEF	SBUS	0.12	0.13
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.49	0.04
tblVehicleEF	SBUS	0.01	3.4160e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.1600e-004	6.0000e-005
tblVehicleEF	SBUS	3.4880e-003	1.1160e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.43	0.51
tblVehicleEF	SBUS	1.9230e-003	5.9300e-004
tblVehicleEF	SBUS	0.15	0.15
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.53	0.05
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.07	6.7680e-003
tblVehicleEF	SBUS	8.14	2.93

tblVehicleEF	SBUS	1.13	0.98
tblVehicleEF	SBUS	7.67	0.87
tblVehicleEF	SBUS	1,165.76	368.34
tblVehicleEF	SBUS	1,081.97	1,111.81
tblVehicleEF	SBUS	55.54	5.78
tblVehicleEF	SBUS	9.39	3.81
tblVehicleEF	SBUS	4.04	5.59
tblVehicleEF	SBUS	7.7820e-003	4.7960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	9.5800e-004	6.8000e-005
tblVehicleEF	SBUS	7.4450e-003	4.5880e-003
tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	8.8100e-004	6.2000e-005
tblVehicleEF	SBUS	4.7790e-003	1.5260e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.98	0.36
tblVehicleEF	SBUS	2.6310e-003	8.0900e-004
tblVehicleEF	SBUS	0.12	0.13
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.01	3.5160e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8900e-004	5.7000e-005
tblVehicleEF	SBUS	4.7790e-003	1.5260e-003
tblVehicleEF	SBUS	0.04	0.01

tblVehicleEF	SBUS	1.42	0.51
tblVehicleEF	SBUS	2.6310e-003	8.0900e-004
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.48	0.04
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.08	7.6420e-003
tblVehicleEF	SBUS	8.41	3.03
tblVehicleEF	SBUS	1.10	0.96
tblVehicleEF	SBUS	9.44	1.07
tblVehicleEF	SBUS	1,046.68	343.05
tblVehicleEF	SBUS	1,081.97	1,111.77
tblVehicleEF	SBUS	55.54	6.12
tblVehicleEF	SBUS	8.70	3.57
tblVehicleEF	SBUS	4.20	5.82
tblVehicleEF	SBUS	0.01	6.9070e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	9.5800e-004	6.8000e-005
tblVehicleEF	SBUS	0.01	6.6080e-003
tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	8.8100e-004	6.2000e-005
tblVehicleEF	SBUS	3.4800e-003	1.1270e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.99	0.36

tblVehicleEF	SBUS	1.8770e-003	5.7900e-004
tblVehicleEF	SBUS	0.12	0.13
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.49	0.04
tblVehicleEF	SBUS	0.01	3.2770e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.1900e-004	6.1000e-005
tblVehicleEF	SBUS	3.4800e-003	1.1270e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.43	0.51
tblVehicleEF	SBUS	1.8770e-003	5.7900e-004
tblVehicleEF	SBUS	0.15	0.15
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.54	0.05
tblVehicleEF	UBUS	1.81	5.27
tblVehicleEF	UBUS	0.07	0.04
tblVehicleEF	UBUS	8.43	41.16
tblVehicleEF	UBUS	12.59	1.81
tblVehicleEF	UBUS	1,815.92	2,086.92
tblVehicleEF	UBUS	135.00	22.69
tblVehicleEF	UBUS	4.36	0.48
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.03	2.8080e-003
tblVehicleEF	UBUS	1.2230e-003	4.4000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003

tblVehicleEF	UBUS	0.03	2.6830e-003
tblVehicleEF	UBUS	1.1250e-003	4.1000e-005
tblVehicleEF	UBUS	5.9600e-003	2.9310e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	3.5870e-003	2.0490e-003
tblVehicleEF	UBUS	0.47	0.08
tblVehicleEF	UBUS	0.03	0.24
tblVehicleEF	UBUS	0.94	0.15
tblVehicleEF	UBUS	8.6000e-003	4.3240e-003
tblVehicleEF	UBUS	1.5760e-003	2.2500e-004
tblVehicleEF	UBUS	5.9600e-003	2.9310e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	3.5870e-003	2.0490e-003
tblVehicleEF	UBUS	2.34	5.39
tblVehicleEF	UBUS	0.03	0.24
tblVehicleEF	UBUS	1.03	0.17
tblVehicleEF	UBUS	1.81	5.27
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	8.48	41.16
tblVehicleEF	UBUS	11.11	1.61
tblVehicleEF	UBUS	1,815.92	2,086.92
tblVehicleEF	UBUS	135.00	22.33
tblVehicleEF	UBUS	4.09	0.47
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.03	2.8080e-003
tblVehicleEF	UBUS	1.2230e-003	4.4000e-005

tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.03	2.6830e-003
tblVehicleEF	UBUS	1.1250e-003	4.1000e-005
tblVehicleEF	UBUS	7.9960e-003	4.0010e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	4.7760e-003	2.7270e-003
tblVehicleEF	UBUS	0.48	0.08
tblVehicleEF	UBUS	0.03	0.21
tblVehicleEF	UBUS	0.87	0.14
tblVehicleEF	UBUS	8.6010e-003	4.3240e-003
tblVehicleEF	UBUS	1.5510e-003	2.2100e-004
tblVehicleEF	UBUS	7.9960e-003	4.0010e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	4.7760e-003	2.7270e-003
tblVehicleEF	UBUS	2.34	5.39
tblVehicleEF	UBUS	0.03	0.21
tblVehicleEF	UBUS	0.95	0.16
tblVehicleEF	UBUS	1.81	5.27
tblVehicleEF	UBUS	0.07	0.04
tblVehicleEF	UBUS	8.41	41.16
tblVehicleEF	UBUS	12.84	1.85
tblVehicleEF	UBUS	1,815.92	2,086.92
tblVehicleEF	UBUS	135.00	22.76
tblVehicleEF	UBUS	4.27	0.48
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03

tblVehicleEF	UBUS	0.03	2.8080e-003
tblVehicleEF	UBUS	1.2230e-003	4.4000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.03	2.6830e-003
tblVehicleEF	UBUS	1.1250e-003	4.1000e-005
tblVehicleEF	UBUS	6.6800e-003	2.7840e-003
tblVehicleEF	UBUS	0.11	0.04
tblVehicleEF	UBUS	3.7560e-003	1.9370e-003
tblVehicleEF	UBUS	0.47	0.08
tblVehicleEF	UBUS	0.04	0.29
tblVehicleEF	UBUS	0.95	0.16
tblVehicleEF	UBUS	8.6000e-003	4.3240e-003
tblVehicleEF	UBUS	1.5810e-003	2.2500e-004
tblVehicleEF	UBUS	6.6800e-003	2.7840e-003
tblVehicleEF	UBUS	0.11	0.04
tblVehicleEF	UBUS	3.7560e-003	1.9370e-003
tblVehicleEF	UBUS	2.33	5.39
tblVehicleEF	UBUS	0.04	0.29
tblVehicleEF	UBUS	1.05	0.17
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	12.00	17.00
tblVehicleTrips	PB_TP	50.00	69.00

tblVehicleTrips	PB_TP	43.00	79.00
tblVehicleTrips	PB_TP	44.00	78.00
tblVehicleTrips	PB_TP	11.00	76.00
tblVehicleTrips	PR_TP	51.00	83.00
tblVehicleTrips	PR_TP	29.00	31.00
tblVehicleTrips	PR_TP	37.00	21.00
tblVehicleTrips	PR_TP	38.00	22.00
tblVehicleTrips	PR_TP	54.00	24.00
tblVehicleTrips	ST_TR	6.39	4.78
tblVehicleTrips	ST_TR	696.00	85.88
tblVehicleTrips	ST_TR	722.03	499.64
tblVehicleTrips	ST_TR	158.37	119.56
tblVehicleTrips	ST_TR	94.36	88.79
tblVehicleTrips	ST_TR	49.97	43.14
tblVehicleTrips	SU_TR	5.86	3.98
tblVehicleTrips	SU_TR	500.00	85.88
tblVehicleTrips	SU_TR	542.72	499.64
tblVehicleTrips	SU_TR	131.84	139.33
tblVehicleTrips	SU_TR	72.16	70.97
tblVehicleTrips	SU_TR	25.24	19.73
tblVehicleTrips	WD_TR	6.65	5.30
tblVehicleTrips	WD_TR	716.00	803.38
tblVehicleTrips	WD_TR	496.12	325.70
tblVehicleTrips	WD_TR	127.15	109.58
tblVehicleTrips	WD_TR	89.95	82.68
tblVehicleTrips	WD_TR	42.70	35.31
tblWoodstoves	NumberCatalytic	57.50	0.00

tblWoodstoves	NumberNoncatalytic	57.50	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					
2020	0.0000	0.0000	0.0000	0.0000	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					
2020	0.0000	0.0000	0.0000	0.0000	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**

The Bowery Mixed-Use Project (Operations) - Orange 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	35.1901	20.1745	103.3872	0.1268		2.0682	2.0682		2.0682	2.0682	0.0000	24,524.3992	24,524.3992	0.6332	0.4465	24,673.2779
Energy	0.8644	7.6462	5.0476	0.0472		0.5972	0.5972		0.5972	0.5972		9,429.6274	9,429.6274	0.1807	0.1729	9,485.6630
Mobile	38.3087	68.8304	280.7012	0.7541	72.8967	0.7087	73.6053	19.4704	0.6639	20.1343		77,641.3058	77,641.3058	5.3208		77,774.3263
Total	**74.3631**	**96.6511**	**389.1360**	**0.9280**	**72.8967**	**3.3740**	**76.2707**	**19.4704**	**3.3293**	**22.7997**	**0.0000**	**111,595.3324**	**111,595.3324**	**6.1348**	**0.6194**	**111,933.2672**

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	35.1901	20.1745	103.3872	0.1268		2.0682	2.0682		2.0682	2.0682	0.0000	24,524.3992	24,524.3992	0.6332	0.4465	24,673.2779
Energy	0.8644	7.6462	5.0476	0.0472		0.5972	0.5972		0.5972	0.5972		9,429.6274	9,429.6274	0.1807	0.1729	9,485.6630
Mobile	38.3087	68.8304	280.7012	0.7541	72.8967	0.7087	73.6053	19.4704	0.6639	20.1343		77,641.3058	77,641.3058	5.3208		77,774.3263
Total	**74.3631**	**96.6511**	**389.1360**	**0.9280**	**72.8967**	**3.3740**	**76.2707**	**19.4704**	**3.3293**	**22.7997**	**0.0000**	**111,595.3324**	**111,595.3324**	**6.1348**	**0.6194**	**111,933.2672**

	ROG	NOx	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	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 11.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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	38.3087	68.8304	280.7012	0.7541	72.8967	0.7087	73.6053	19.4704	0.6639	20.1343		77,641.3058	77,641.3058	5.3208		77,774.3263
Unmitigated	38.3087	68.8304	280.7012	0.7541	72.8967	0.7087	73.6053	19.4704	0.6639	20.1343		77,641.3058	77,641.3058	5.3208		77,774.3263

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	6,095.00	5,497.00	4577.00	19,794,585	19,794,585
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	1,606.76	171.76	171.76	2,985,979	2,985,979
Fast Food Restaurant with Drive Thru	3,257.00	4,996.40	4996.40	3,608,201	3,608,201
High Turnover (Sit Down Restaurant)	2,739.50	2,989.00	3483.25	2,023,733	2,023,733
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	2,067.00	2,219.75	1774.25	1,549,661	1,549,661
Regional Shopping Center	635.58	776.52	355.14	525,370	525,370
Total	16,400.84	16,650.43	15,357.80	30,487,528	30,487,528

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	83	0	17
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	31	0	69
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	21	0	79
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	22	0	78
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	24	0	76

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Fast Food Restaurant w/o Drive Thru	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Fast Food Restaurant with Drive Thru	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
High Turnover (Sit Down Restaurant)	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Other Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Quality Restaurant	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Regional Shopping Center	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

The Bowery Mixed-Use Project (Operations) - Orange County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8644	7.6462	5.0476	0.0472		0.5972	0.5972		0.5972	0.5972		9,429.6274	9,429.6274	0.1807	0.1729	9,485.6630
NaturalGas Unmitigated	0.8644	7.6462	5.0476	0.0472		0.5972	0.5972		0.5972	0.5972		9,429.6274	9,429.6274	0.1807	0.1729	9,485.6630

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					
Apartments Mid Rise	36004.3	0.3883	3.3181	1.4119	0.0212		0.2683	0.2683		0.2683	0.2683		4,235.8031	4,235.8031	0.0812	0.0777	4,260.9743
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	1420.93	0.0153	0.1393	0.1170	8.4000e-004		0.0106	0.0106		0.0106	0.0106		167.1684	167.1684	3.2000e-003	3.0600e-003	168.1618
Fast Food Restaurant with Drive Thru	7104.66	0.0766	0.6965	0.5851	4.1800e-003		0.0529	0.0529		0.0529	0.0529		835.8421	835.8421	0.0160	0.0153	840.8091
High Turnover (Sit Down Restaurant)	17761.6	0.1916	1.7413	1.4627	0.0105		0.1323	0.1323		0.1323	0.1323		2,089.6052	2,089.6052	0.0401	0.0383	2,102.0226
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	17761.6	0.1916	1.7413	1.4627	0.0105		0.1323	0.1323		0.1323	0.1323		2,089.6052	2,089.6052	0.0401	0.0383	2,102.0226
Regional Shopping Center	98.6301	1.0600e-003	9.6700e-003	8.1200e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004		11.6036	11.6036	2.2000e-004	2.1000e-004	11.6725
Total		**0.8644**	**7.6463**	**5.0476**	**0.0472**		**0.5972**	**0.5972**		**0.5972**	**0.5972**		**9,429.6274**	**9,429.6274**	**0.1807**	**0.1729**	**9,485.6630**

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					
Apartments Mid Rise	36.0043	0.3883	3.3181	1.4119	0.0212		0.2683	0.2683		0.2683	0.2683		4,235.8031	4,235.8031	0.0812	0.0777	4,260.9743
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	1.42093	0.0153	0.1393	0.1170	8.4000e-004		0.0106	0.0106		0.0106	0.0106		167.1684	167.1684	3.2000e-003	3.0600e-003	168.1618
Fast Food Restaurant with Drive Thru	7.10466	0.0766	0.6965	0.5851	4.1800e-003		0.0529	0.0529		0.0529	0.0529		835.8421	835.8421	0.0160	0.0153	840.8091
High Turnover (Sit Down Restaurant)	17.7616	0.1916	1.7413	1.4627	0.0105		0.1323	0.1323		0.1323	0.1323		2,089.6052	2,089.6052	0.0401	0.0383	2,102.0226
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	17.7616	0.1916	1.7413	1.4627	0.0105		0.1323	0.1323		0.1323	0.1323		2,089.6052	2,089.6052	0.0401	0.0383	2,102.0226
Regional Shopping Center	0.0986301	1.0600e-003	9.6700e-003	8.1200e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004		11.6036	11.6036	2.2000e-004	2.1000e-004	11.6725
Total		**0.8644**	**7.6463**	**5.0476**	**0.0472**		**0.5972**	**0.5972**		**0.5972**	**0.5972**		**9,429.6274**	**9,429.6274**	**0.1807**	**0.1729**	**9,485.6630**

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	35.1901	20.1745	103.3872	0.1268		2.0682	2.0682		2.0682	2.0682	0.0000	24,524.3992	24,524.3992	0.6332	0.4465	24,673.2779
Unmitigated	35.1901	20.1745	103.3872	0.1268		2.0682	2.0682		2.0682	2.0682	0.0000	24,524.3992	24,524.3992	0.6332	0.4465	24,673.2779

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	2.5111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.5508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.2324	19.0765	8.1177	0.1218		1.5424	1.5424		1.5424	1.5424	0.0000	24,352.9412	24,352.9412	0.4668	0.4465	24,497.6585
Landscaping	2.8958	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258		171.4580	171.4580	0.1665		175.6194
Total	**35.1901**	**20.1745**	**103.3872**	**0.1268**		**2.0682**	**2.0682**		**2.0682**	**2.0682**	**0.0000**	**24,524.3992**	**24,524.3992**	**0.6332**	**0.4465**	**24,673.2779**

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	2.5111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.5508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.2324	19.0765	8.1177	0.1218		1.5424	1.5424		1.5424	1.5424	0.0000	24,352.9412	24,352.9412	0.4668	0.4465	24,497.6585
Landscaping	2.8958	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258		171.4580	171.4580	0.1665		175.6194
Total	**35.1901**	**20.1745**	**103.3872**	**0.1268**		**2.0682**	**2.0682**		**2.0682**	**2.0682**	**0.0000**	**24,524.3992**	**24,524.3992**	**0.6332**	**0.4465**	**24,673.2779**

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

The Bowery Mixed-Use Project (Operations)

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	2,424.00	Space	3.42	969,600.00	0
Other Asphalt Surfaces	166.98	1000sqft	3.83	166,981.00	0
Other Non-Asphalt Surfaces	174.56	1000sqft	4.01	174,555.00	0
Fast Food Restaurant w/o Drive Thru	2.00	1000sqft	0.05	2,000.00	0
Fast Food Restaurant with Drive Thru	10.00	1000sqft	0.23	10,000.00	0
High Turnover (Sit Down Restaurant)	25.00	1000sqft	0.57	25,000.00	0
Quality Restaurant	25.00	1000sqft	0.57	25,000.00	0
Apartments Mid Rise	1,150.00	Dwelling Unit	1.48	1,288,000.00	2081
Regional Shopping Center	18.00	1000sqft	0.41	18,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2022
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

The Bowery Mixed-Use Project (Operations) - Orange County, Winter

Project Characteristics -

Land Use - Total Project Aread is 14.58 acres. Per the Project Description, at full occupany, the Project would house approximatley 2,081 residents.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates and Trip Purpose based on information provided in the Trip Generation.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Woodstoves - Rule 443

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFireplaces	NumberGas	977.50	1,150.00
tblFireplaces	NumberNoFireplace	115.00	0.00
tblFireplaces	NumberWood	57.50	0.00
tblLandUse	LandUseSquareFeet	1,150,000.00	1,288,000.00
tblLandUse	LotAcreage	21.82	3.42
tblLandUse	LotAcreage	30.26	1.48
tblLandUse	Population	3,289.00	2,081.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.58	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	2.24	5.67

tblVehicleEF	HHD	1.31	0.71
tblVehicleEF	HHD	4.03	0.01
tblVehicleEF	HHD	4,069.38	1,071.37
tblVehicleEF	HHD	1,661.35	1,472.58
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	18.80	5.84
tblVehicleEF	HHD	3.54	3.30
tblVehicleEF	HHD	0.02	3.7940e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.02	3.6300e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.1400e-004	5.0000e-006
tblVehicleEF	HHD	4.7360e-003	2.0100e-004
tblVehicleEF	HHD	0.53	0.41
tblVehicleEF	HHD	8.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.12	0.07
tblVehicleEF	HHD	4.2900e-004	9.3000e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.04	9.8130e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9600e-004	1.0000e-006

tblVehicleEF	HHD	1.1400e-004	5.0000e-006
tblVehicleEF	HHD	4.7360e-003	2.0100e-004
tblVehicleEF	HHD	0.64	0.47
tblVehicleEF	HHD	8.6000e-005	3.0000e-006
tblVehicleEF	HHD	0.30	0.22
tblVehicleEF	HHD	4.2900e-004	9.3000e-004
tblVehicleEF	HHD	0.10	5.0000e-006
tblVehicleEF	HHD	0.55	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	1.62	5.55
tblVehicleEF	HHD	1.31	0.71
tblVehicleEF	HHD	3.84	0.01
tblVehicleEF	HHD	4,310.95	1,068.30
tblVehicleEF	HHD	1,661.35	1,472.58
tblVehicleEF	HHD	12.98	0.08
tblVehicleEF	HHD	19.40	5.67
tblVehicleEF	HHD	3.35	3.12
tblVehicleEF	HHD	0.01	3.3070e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.01	3.1640e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.7660e-003
tblVehicleEF	HHD	0.01	0.03

tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	4.8280e-003	2.0400e-004
tblVehicleEF	HHD	0.50	0.43
tblVehicleEF	HHD	1.2000e-004	5.0000e-006
tblVehicleEF	HHD	0.12	0.07
tblVehicleEF	HHD	4.1400e-004	9.1300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.04	9.7840e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9300e-004	1.0000e-006
tblVehicleEF	HHD	1.6300e-004	7.0000e-006
tblVehicleEF	HHD	4.8280e-003	2.0400e-004
tblVehicleEF	HHD	0.60	0.50
tblVehicleEF	HHD	1.2000e-004	5.0000e-006
tblVehicleEF	HHD	0.30	0.22
tblVehicleEF	HHD	4.1400e-004	9.1300e-004
tblVehicleEF	HHD	0.10	4.0000e-006
tblVehicleEF	HHD	0.63	0.02
tblVehicleEF	HHD	0.16	2.9240e-003
tblVehicleEF	HHD	0.07	1.0000e-006
tblVehicleEF	HHD	3.08	5.67
tblVehicleEF	HHD	1.30	0.31
tblVehicleEF	HHD	4.07	0.01
tblVehicleEF	HHD	3,735.78	1,043.04
tblVehicleEF	HHD	1,661.35	1,373.81
tblVehicleEF	HHD	12.98	0.08

tblVehicleEF	HHD	17.96	5.87
tblVehicleEF	HHD	3.48	3.16
tblVehicleEF	HHD	0.02	4.0580e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.1900e-004	1.0000e-006
tblVehicleEF	HHD	0.02	3.8830e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6720e-003	8.5030e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	1.0900e-004	1.0000e-006
tblVehicleEF	HHD	1.1200e-004	5.0000e-006
tblVehicleEF	HHD	5.0860e-003	2.2300e-004
tblVehicleEF	HHD	0.58	0.38
tblVehicleEF	HHD	8.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.12	0.06
tblVehicleEF	HHD	4.6600e-004	9.9300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	9.8540e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.9600e-004	1.0000e-006
tblVehicleEF	HHD	1.1200e-004	5.0000e-006
tblVehicleEF	HHD	5.0860e-003	2.2300e-004
tblVehicleEF	HHD	0.69	0.43
tblVehicleEF	HHD	8.6000e-005	4.0000e-006
tblVehicleEF	HHD	0.30	0.07

tblVehicleEF	HHD	4.6600e-004	9.9300e-004
tblVehicleEF	HHD	0.10	5.0000e-006
tblVehicleEF	LDA	3.9360e-003	2.3280e-003
tblVehicleEF	LDA	4.5350e-003	0.05
tblVehicleEF	LDA	0.55	0.63
tblVehicleEF	LDA	1.00	2.05
tblVehicleEF	LDA	252.97	257.52
tblVehicleEF	LDA	56.16	52.62
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.9340e-003	8.8060e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.5330e-003	2.5470e-003
tblVehicleEF	LDA	5.7800e-004	5.2100e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23

tblVehicleEF	LDA	4.1570e-003	2.4790e-003
tblVehicleEF	LDA	4.0770e-003	0.04
tblVehicleEF	LDA	0.60	0.68
tblVehicleEF	LDA	0.87	1.77
tblVehicleEF	LDA	263.60	268.06
tblVehicleEF	LDA	56.16	52.11
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	9.2950e-003
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	2.6400e-003	2.6520e-003
tblVehicleEF	LDA	5.7600e-004	5.1600e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.19
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	3.8610e-003	2.2810e-003
tblVehicleEF	LDA	4.6290e-003	0.05

tblVehicleEF	LDA	0.53	0.61
tblVehicleEF	LDA	1.03	2.11
tblVehicleEF	LDA	249.05	253.63
tblVehicleEF	LDA	56.16	52.74
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.8750e-003	1.5780e-003
tblVehicleEF	LDA	2.2640e-003	1.8300e-003
tblVehicleEF	LDA	1.7270e-003	1.4530e-003
tblVehicleEF	LDA	2.0810e-003	1.6830e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.7480e-003	8.6410e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4930e-003	2.5090e-003
tblVehicleEF	LDA	5.7900e-004	5.2200e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	8.9890e-003	5.4220e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.10	1.13
tblVehicleEF	LDT1	2.48	2.24

tblVehicleEF	LDT1	313.91	304.64
tblVehicleEF	LDT1	69.94	63.35
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.24	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.62
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.1510e-003	3.0150e-003
tblVehicleEF	LDT1	7.4300e-004	6.2700e-004
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.24	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.15	0.62
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT1	9.4340e-003	5.7300e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.18	1.22
tblVehicleEF	LDT1	2.14	1.93
tblVehicleEF	LDT1	326.59	315.43
tblVehicleEF	LDT1	69.94	62.74

tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003
tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.57
tblVehicleEF	LDT1	0.15	0.29
tblVehicleEF	LDT1	3.2790e-003	3.1210e-003
tblVehicleEF	LDT1	7.3700e-004	6.2100e-004
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.25	0.19
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.14	0.57
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	8.8330e-003	5.3230e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.06	1.10
tblVehicleEF	LDT1	2.56	2.31
tblVehicleEF	LDT1	309.22	300.66
tblVehicleEF	LDT1	69.94	63.48
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.4600e-003	2.1280e-003

tblVehicleEF	LDT1	3.1560e-003	2.4630e-003
tblVehicleEF	LDT1	2.2640e-003	1.9580e-003
tblVehicleEF	LDT1	2.9020e-003	2.2650e-003
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.27	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.1040e-003	2.9750e-003
tblVehicleEF	LDT1	7.4400e-004	6.2800e-004
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.27	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.73
tblVehicleEF	LDT1	0.19	0.37
tblVehicleEF	LDT2	5.3680e-003	3.6520e-003
tblVehicleEF	LDT2	5.9420e-003	0.06
tblVehicleEF	LDT2	0.70	0.84
tblVehicleEF	LDT2	1.29	2.60
tblVehicleEF	LDT2	356.05	329.20
tblVehicleEF	LDT2	79.07	68.88
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003

tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.5650e-003	3.2570e-003
tblVehicleEF	LDT2	8.1200e-004	6.8200e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.6680e-003	3.8780e-003
tblVehicleEF	LDT2	5.3490e-003	0.06
tblVehicleEF	LDT2	0.76	0.92
tblVehicleEF	LDT2	1.12	2.24
tblVehicleEF	LDT2	370.66	339.75
tblVehicleEF	LDT2	79.07	68.21
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.06	0.10

tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.05	0.36
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.7120e-003	3.3610e-003
tblVehicleEF	LDT2	8.0900e-004	6.7500e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.36
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	5.2670e-003	3.5810e-003
tblVehicleEF	LDT2	6.0640e-003	0.07
tblVehicleEF	LDT2	0.68	0.82
tblVehicleEF	LDT2	1.32	2.68
tblVehicleEF	LDT2	350.66	325.31
tblVehicleEF	LDT2	79.07	69.03
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.8190e-003	1.5660e-003
tblVehicleEF	LDT2	2.2300e-003	1.7510e-003
tblVehicleEF	LDT2	1.6730e-003	1.4410e-003
tblVehicleEF	LDT2	2.0500e-003	1.6100e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07

tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.08	0.30
tblVehicleEF	LDT2	3.5110e-003	3.2180e-003
tblVehicleEF	LDT2	8.1300e-004	6.8300e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.45
tblVehicleEF	LDT2	0.09	0.33
tblVehicleEF	LHD1	5.4230e-003	5.5990e-003
tblVehicleEF	LHD1	9.3000e-003	4.5130e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.70	0.51
tblVehicleEF	LHD1	2.36	1.04
tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.78
tblVehicleEF	LHD1	32.10	12.06
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.16	0.73
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004

tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	2.7120e-003	2.1290e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7400e-003	1.3620e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.28	0.44
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4010e-003
tblVehicleEF	LHD1	3.6600e-004	1.1900e-004
tblVehicleEF	LHD1	2.7120e-003	2.1290e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7400e-003	1.3620e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.28	0.44
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4230e-003	5.6110e-003
tblVehicleEF	LHD1	9.4800e-003	4.5890e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.71	0.52
tblVehicleEF	LHD1	2.26	1.00
tblVehicleEF	LHD1	9.04	9.00

tblVehicleEF	LHD1	595.62	655.80
tblVehicleEF	LHD1	32.10	11.99
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.10	0.69
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	3.7830e-003	2.9790e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.3550e-003	1.8560e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.27	0.43
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4020e-003
tblVehicleEF	LHD1	3.6400e-004	1.1900e-004
tblVehicleEF	LHD1	3.7830e-003	2.9790e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.3550e-003	1.8560e-003
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.27	0.43
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.4230e-003	5.5970e-003
tblVehicleEF	LHD1	9.2520e-003	4.4920e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.70	0.51
tblVehicleEF	LHD1	2.38	1.05
tblVehicleEF	LHD1	9.04	9.00
tblVehicleEF	LHD1	595.62	655.78
tblVehicleEF	LHD1	32.10	12.08
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	1.14	0.72
tblVehicleEF	LHD1	8.6900e-004	7.8400e-004
tblVehicleEF	LHD1	0.01	9.7030e-003
tblVehicleEF	LHD1	0.01	6.9260e-003
tblVehicleEF	LHD1	8.6500e-004	2.4300e-004
tblVehicleEF	LHD1	8.3100e-004	7.5100e-004
tblVehicleEF	LHD1	2.5300e-003	2.4260e-003
tblVehicleEF	LHD1	9.6520e-003	6.6010e-003
tblVehicleEF	LHD1	7.9500e-004	2.2400e-004
tblVehicleEF	LHD1	2.8100e-003	2.2130e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7580e-003	1.3810e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.48

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.1000e-005	8.7000e-005
tblVehicleEF	LHD1	5.8430e-003	6.4010e-003
tblVehicleEF	LHD1	3.6600e-004	1.1900e-004
tblVehicleEF	LHD1	2.8100e-003	2.2130e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7580e-003	1.3810e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.30	0.48
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.9700e-003	4.0620e-003
tblVehicleEF	LHD2	3.7300e-003	3.3390e-003
tblVehicleEF	LHD2	8.2200e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.32	0.37
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.64
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.75	0.83
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003

tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
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tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.0630e-003	1.3680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2900e-004	8.9600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.28
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9900e-004	9.5000e-005
tblVehicleEF	LHD2	1.0630e-003	1.3680e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.2900e-004	8.9600e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.08	0.28
tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	LHD2	3.9700e-003	4.0700e-003
tblVehicleEF	LHD2	3.7710e-003	3.3710e-003
tblVehicleEF	LHD2	7.9600e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.33	0.37
tblVehicleEF	LHD2	1.21	0.69
tblVehicleEF	LHD2	13.68	13.58

tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.59
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.71	0.79
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.4890e-003	1.9160e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-004	1.2200e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.27
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9800e-004	9.5000e-005
tblVehicleEF	LHD2	1.4890e-003	1.9160e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	9.9000e-004	1.2200e-003
tblVehicleEF	LHD2	0.05	0.05

tblVehicleEF	LHD2	0.08	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.9700e-003	4.0600e-003
tblVehicleEF	LHD2	3.7190e-003	3.3310e-003
tblVehicleEF	LHD2	8.2730e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.32	0.37
tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.68	13.58
tblVehicleEF	LHD2	611.53	666.20
tblVehicleEF	LHD2	27.56	9.65
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.74	0.82
tblVehicleEF	LHD2	1.1750e-003	1.2260e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.2630e-003	9.8980e-003
tblVehicleEF	LHD2	4.3200e-004	1.4100e-004
tblVehicleEF	LHD2	1.1240e-003	1.1730e-003
tblVehicleEF	LHD2	2.6560e-003	2.6250e-003
tblVehicleEF	LHD2	8.8500e-003	9.4560e-003
tblVehicleEF	LHD2	3.9700e-004	1.3000e-004
tblVehicleEF	LHD2	1.0710e-003	1.3980e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.2500e-004	8.9100e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.09	0.31

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	1.3400e-004	1.3000e-004
tblVehicleEF	LHD2	5.9580e-003	6.4500e-003
tblVehicleEF	LHD2	2.9900e-004	9.5000e-005
tblVehicleEF	LHD2	1.0710e-003	1.3980e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.2500e-004	8.9100e-004
tblVehicleEF	LHD2	0.05	0.05
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tblVehicleEF	LHD2	0.12	0.06
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.34	18.60
tblVehicleEF	MCY	9.57	8.45
tblVehicleEF	MCY	178.02	214.46
tblVehicleEF	MCY	44.92	59.78
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.13	1.15
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.37	2.38
tblVehicleEF	MCY	0.64	2.00

tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1510e-003	2.1220e-003
tblVehicleEF	MCY	6.6600e-004	5.9200e-004
tblVehicleEF	MCY	1.13	1.15
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	0.70	0.72
tblVehicleEF	MCY	2.94	2.95
tblVehicleEF	MCY	0.64	2.00
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.67	17.90
tblVehicleEF	MCY	8.81	7.75
tblVehicleEF	MCY	178.02	213.15
tblVehicleEF	MCY	44.92	58.02
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.70	1.73
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.11	1.13
tblVehicleEF	MCY	2.31	2.33
tblVehicleEF	MCY	0.60	1.87
tblVehicleEF	MCY	1.84	1.62
tblVehicleEF	MCY	2.1390e-003	2.1090e-003

tblVehicleEF	MCY	6.4700e-004	5.7400e-004
tblVehicleEF	MCY	1.70	1.73
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.11	1.13
tblVehicleEF	MCY	2.87	2.88
tblVehicleEF	MCY	0.60	1.87
tblVehicleEF	MCY	2.00	1.76
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.44	18.70
tblVehicleEF	MCY	9.69	8.57
tblVehicleEF	MCY	178.02	214.66
tblVehicleEF	MCY	44.92	60.09
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	2.1850e-003	2.1650e-003
tblVehicleEF	MCY	3.8230e-003	3.2010e-003
tblVehicleEF	MCY	2.0420e-003	2.0240e-003
tblVehicleEF	MCY	3.6010e-003	3.0140e-003
tblVehicleEF	MCY	1.26	1.28
tblVehicleEF	MCY	0.88	0.90
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.38	2.39
tblVehicleEF	MCY	0.73	2.30
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.1530e-003	2.1240e-003
tblVehicleEF	MCY	6.6900e-004	5.9500e-004
tblVehicleEF	MCY	1.26	1.28

tblVehicleEF	MCY	0.88	0.90
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.95	2.97
tblVehicleEF	MCY	0.73	2.30
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	4.7750e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.13	0.98
tblVehicleEF	MDV	2.37	2.97
tblVehicleEF	MDV	484.17	407.06
tblVehicleEF	MDV	105.06	83.79
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
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tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.18	0.37
tblVehicleEF	MDV	4.8480e-003	4.0240e-003
tblVehicleEF	MDV	1.0920e-003	8.2900e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.07	0.09

tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.19	0.41
tblVehicleEF	MDV	0.01	5.0630e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.22	1.07
tblVehicleEF	MDV	2.05	2.55
tblVehicleEF	MDV	503.46	418.11
tblVehicleEF	MDV	105.06	83.01
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.16	0.34
tblVehicleEF	MDV	5.0420e-003	4.1340e-003
tblVehicleEF	MDV	1.0860e-003	8.2100e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.38

tblVehicleEF	MDV	0.17	0.37
tblVehicleEF	MDV	9.9990e-003	4.6830e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.09	0.95
tblVehicleEF	MDV	2.43	3.06
tblVehicleEF	MDV	477.05	402.99
tblVehicleEF	MDV	105.06	83.96
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.8970e-003	1.6910e-003
tblVehicleEF	MDV	2.2820e-003	1.8800e-003
tblVehicleEF	MDV	1.7480e-003	1.5600e-003
tblVehicleEF	MDV	2.0980e-003	1.7290e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.18	0.38
tblVehicleEF	MDV	4.7760e-003	3.9840e-003
tblVehicleEF	MDV	1.0930e-003	8.3100e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.48
tblVehicleEF	MDV	0.20	0.42
tblVehicleEF	MH	0.02	3.2780e-003

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.81	0.30
tblVehicleEF	MH	5.09	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.33	3.77
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	0.87	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.6000e-004	0.00
tblVehicleEF	MH	0.87	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.2780e-003

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.86	0.30
tblVehicleEF	MH	4.82	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.24	3.57
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	1.17	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.52	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.5500e-004	0.00
tblVehicleEF	MH	1.17	0.00
tblVehicleEF	MH	0.06	0.00
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tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.2780e-003

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.80	0.30
tblVehicleEF	MH	5.12	0.00
tblVehicleEF	MH	1,104.65	971.72
tblVehicleEF	MH	57.12	0.00
tblVehicleEF	MH	1.31	3.70
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.9300e-004	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.09
tblVehicleEF	MH	9.1300e-004	0.00
tblVehicleEF	MH	0.96	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	0.01	9.1860e-003
tblVehicleEF	MH	6.6000e-004	0.00
tblVehicleEF	MH	0.96	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MHD	0.02	4.8200e-003

tblVehicleEF	MHD	3.6730e-003	3.4120e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.35	0.38
tblVehicleEF	MHD	0.30	0.34
tblVehicleEF	MHD	5.52	1.25
tblVehicleEF	MHD	143.56	55.50
tblVehicleEF	MHD	1,140.06	1,052.30
tblVehicleEF	MHD	59.06	12.60
tblVehicleEF	MHD	0.51	0.35
tblVehicleEF	MHD	1.09	1.42
tblVehicleEF	MHD	1.9500e-004	8.6400e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	1.8700e-004	8.2600e-004
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.0560e-003	4.7900e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0400e-004	3.3300e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.3810e-003	5.2800e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8700e-004	1.2500e-004
tblVehicleEF	MHD	1.0560e-003	4.7900e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.0400e-004	3.3300e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.37	0.06
tblVehicleEF	MHD	0.01	4.5660e-003
tblVehicleEF	MHD	3.7140e-003	3.4420e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	0.30	0.35
tblVehicleEF	MHD	5.26	1.19
tblVehicleEF	MHD	152.06	56.12
tblVehicleEF	MHD	1,140.06	1,052.30
tblVehicleEF	MHD	59.06	12.50
tblVehicleEF	MHD	0.53	0.35
tblVehicleEF	MHD	1.03	1.34
tblVehicleEF	MHD	1.6400e-004	7.3000e-004
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004
tblVehicleEF	MHD	1.5700e-004	6.9900e-004
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.4900e-003	6.7700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.7000e-004	4.5800e-004

tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	1.4610e-003	5.3400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8300e-004	1.2400e-004
tblVehicleEF	MHD	1.4900e-003	6.7700e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.7000e-004	4.5800e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.02	5.1860e-003
tblVehicleEF	MHD	3.6600e-003	3.4020e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.48	0.49
tblVehicleEF	MHD	0.30	0.34
tblVehicleEF	MHD	5.56	1.26
tblVehicleEF	MHD	131.82	54.65
tblVehicleEF	MHD	1,140.06	1,052.29
tblVehicleEF	MHD	59.06	12.62
tblVehicleEF	MHD	0.49	0.36
tblVehicleEF	MHD	1.07	1.39
tblVehicleEF	MHD	2.3700e-004	1.0480e-003
tblVehicleEF	MHD	5.0030e-003	0.03
tblVehicleEF	MHD	7.5000e-004	1.1600e-004

tblVehicleEF	MHD	2.2700e-004	1.0030e-003
tblVehicleEF	MHD	4.7840e-003	0.03
tblVehicleEF	MHD	6.9000e-004	1.0700e-004
tblVehicleEF	MHD	1.0870e-003	4.8400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.1300e-004	3.3300e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.2710e-003	5.2000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.8800e-004	1.2500e-004
tblVehicleEF	MHD	1.0870e-003	4.8400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.1300e-004	3.3300e-004
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.07
tblVehicleEF	OBUS	0.01	8.7820e-003
tblVehicleEF	OBUS	7.3650e-003	6.7550e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.54
tblVehicleEF	OBUS	0.51	0.78
tblVehicleEF	OBUS	5.29	2.38
tblVehicleEF	OBUS	84.12	81.35

tblVehicleEF	OBUS	1,220.51	1,388.32
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tblVehicleEF	OBUS	1.28	1.36
tblVehicleEF	OBUS	8.0000e-005	6.6700e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	7.7000e-005	6.3800e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.3980e-003	1.8310e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	7.5900e-004	9.7700e-004
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.23
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	8.1500e-004	7.7500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	1.9800e-004
tblVehicleEF	OBUS	1.3980e-003	1.8310e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5900e-004	9.7700e-004
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.23
tblVehicleEF	OBUS	0.36	0.13

tblVehicleEF	OBUS	0.01	8.8340e-003
tblVehicleEF	OBUS	7.4870e-003	6.8750e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.53
tblVehicleEF	OBUS	0.52	0.79
tblVehicleEF	OBUS	5.02	2.26
tblVehicleEF	OBUS	88.10	81.25
tblVehicleEF	OBUS	1,220.51	1,388.34
tblVehicleEF	OBUS	69.46	19.83
tblVehicleEF	OBUS	0.37	0.37
tblVehicleEF	OBUS	1.20	1.28
tblVehicleEF	OBUS	6.8000e-005	5.6700e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	6.5000e-005	5.4200e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.9250e-003	2.5060e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.0420e-003	1.3300e-003
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	8.5300e-004	7.7400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8300e-004	1.9600e-004

tblVehicleEF	OBUS	1.9250e-003	2.5060e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0420e-003	1.3300e-003
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.7300e-003
tblVehicleEF	OBUS	7.3280e-003	6.7200e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.29	0.56
tblVehicleEF	OBUS	0.51	0.77
tblVehicleEF	OBUS	5.33	2.40
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tblVehicleEF	OBUS	1,220.51	1,388.31
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tblVehicleEF	OBUS	1.25	1.34
tblVehicleEF	OBUS	9.8000e-005	8.0600e-004
tblVehicleEF	OBUS	6.2990e-003	0.02
tblVehicleEF	OBUS	8.5700e-004	1.9900e-004
tblVehicleEF	OBUS	9.4000e-005	7.7100e-004
tblVehicleEF	OBUS	6.0080e-003	0.01
tblVehicleEF	OBUS	7.8800e-004	1.8300e-004
tblVehicleEF	OBUS	1.4220e-003	1.8770e-003
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tblVehicleEF	OBUS	0.04	0.05

tblVehicleEF	OBUS	7.5400e-004	9.7800e-004
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	7.6200e-004	7.7600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8800e-004	1.9900e-004
tblVehicleEF	OBUS	1.4220e-003	1.8770e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5400e-004	9.7800e-004
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	0.04	0.24
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tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.08	7.5320e-003
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tblVehicleEF	SBUS	1,115.75	357.72
tblVehicleEF	SBUS	1,081.97	1,111.78
tblVehicleEF	SBUS	55.54	6.09
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tblVehicleEF	SBUS	9.2310e-003	5.6820e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	9.5800e-004	6.8000e-005
tblVehicleEF	SBUS	8.8310e-003	5.4370e-003
tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	8.8100e-004	6.2000e-005
tblVehicleEF	SBUS	3.4880e-003	1.1160e-003
tblVehicleEF	SBUS	0.04	0.01
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tblVehicleEF	SBUS	1.9230e-003	5.9300e-004
tblVehicleEF	SBUS	0.12	0.13
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.49	0.04
tblVehicleEF	SBUS	0.01	3.4160e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.1600e-004	6.0000e-005
tblVehicleEF	SBUS	3.4880e-003	1.1160e-003
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tblVehicleEF	SBUS	1.9230e-003	5.9300e-004
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tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.53	0.05
tblVehicleEF	SBUS	0.85	0.08
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.07	6.7680e-003
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tblVehicleEF	SBUS	55.54	5.78
tblVehicleEF	SBUS	9.39	3.81
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tblVehicleEF	SBUS	7.7820e-003	4.7960e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	9.5800e-004	6.8000e-005
tblVehicleEF	SBUS	7.4450e-003	4.5880e-003
tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
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tblVehicleEF	SBUS	4.7790e-003	1.5260e-003
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tblVehicleEF	SBUS	2.6310e-003	8.0900e-004
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tblVehicleEF	SBUS	0.01	3.5160e-003
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tblVehicleEF	SBUS	4.7790e-003	1.5260e-003
tblVehicleEF	SBUS	0.04	0.01

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tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.48	0.04
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tblVehicleEF	SBUS	0.02	0.01
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tblVehicleEF	SBUS	1,046.68	343.05
tblVehicleEF	SBUS	1,081.97	1,111.77
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	9.5800e-004	6.8000e-005
tblVehicleEF	SBUS	0.01	6.6080e-003
tblVehicleEF	SBUS	2.6720e-003	2.6450e-003
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	8.8100e-004	6.2000e-005
tblVehicleEF	SBUS	3.4800e-003	1.1270e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.99	0.36

tblVehicleEF	SBUS	1.8770e-003	5.7900e-004
tblVehicleEF	SBUS	0.12	0.13
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.49	0.04
tblVehicleEF	SBUS	0.01	3.2770e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.1900e-004	6.1000e-005
tblVehicleEF	SBUS	3.4800e-003	1.1270e-003
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tblVehicleEF	SBUS	1.43	0.51
tblVehicleEF	SBUS	1.8770e-003	5.7900e-004
tblVehicleEF	SBUS	0.15	0.15
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.54	0.05
tblVehicleEF	UBUS	1.81	5.27
tblVehicleEF	UBUS	0.07	0.04
tblVehicleEF	UBUS	8.43	41.16
tblVehicleEF	UBUS	12.59	1.81
tblVehicleEF	UBUS	1,815.92	2,086.92
tblVehicleEF	UBUS	135.00	22.69
tblVehicleEF	UBUS	4.36	0.48
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.03	2.8080e-003
tblVehicleEF	UBUS	1.2230e-003	4.4000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003

tblVehicleEF	UBUS	0.03	2.6830e-003
tblVehicleEF	UBUS	1.1250e-003	4.1000e-005
tblVehicleEF	UBUS	5.9600e-003	2.9310e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	3.5870e-003	2.0490e-003
tblVehicleEF	UBUS	0.47	0.08
tblVehicleEF	UBUS	0.03	0.24
tblVehicleEF	UBUS	0.94	0.15
tblVehicleEF	UBUS	8.6000e-003	4.3240e-003
tblVehicleEF	UBUS	1.5760e-003	2.2500e-004
tblVehicleEF	UBUS	5.9600e-003	2.9310e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	3.5870e-003	2.0490e-003
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tblVehicleEF	UBUS	0.03	0.24
tblVehicleEF	UBUS	1.03	0.17
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tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	8.48	41.16
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tblVehicleEF	UBUS	1,815.92	2,086.92
tblVehicleEF	UBUS	135.00	22.33
tblVehicleEF	UBUS	4.09	0.47
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.03	2.8080e-003
tblVehicleEF	UBUS	1.2230e-003	4.4000e-005

tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.03	2.6830e-003
tblVehicleEF	UBUS	1.1250e-003	4.1000e-005
tblVehicleEF	UBUS	7.9960e-003	4.0010e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	4.7760e-003	2.7270e-003
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tblVehicleEF	UBUS	0.03	0.21
tblVehicleEF	UBUS	0.87	0.14
tblVehicleEF	UBUS	8.6010e-003	4.3240e-003
tblVehicleEF	UBUS	1.5510e-003	2.2100e-004
tblVehicleEF	UBUS	7.9960e-003	4.0010e-003
tblVehicleEF	UBUS	0.09	0.04
tblVehicleEF	UBUS	4.7760e-003	2.7270e-003
tblVehicleEF	UBUS	2.34	5.39
tblVehicleEF	UBUS	0.03	0.21
tblVehicleEF	UBUS	0.95	0.16
tblVehicleEF	UBUS	1.81	5.27
tblVehicleEF	UBUS	0.07	0.04
tblVehicleEF	UBUS	8.41	41.16
tblVehicleEF	UBUS	12.84	1.85
tblVehicleEF	UBUS	1,815.92	2,086.92
tblVehicleEF	UBUS	135.00	22.76
tblVehicleEF	UBUS	4.27	0.48
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03

tblVehicleEF	UBUS	0.03	2.8080e-003
tblVehicleEF	UBUS	1.2230e-003	4.4000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.03	2.6830e-003
tblVehicleEF	UBUS	1.1250e-003	4.1000e-005
tblVehicleEF	UBUS	6.6800e-003	2.7840e-003
tblVehicleEF	UBUS	0.11	0.04
tblVehicleEF	UBUS	3.7560e-003	1.9370e-003
tblVehicleEF	UBUS	0.47	0.08
tblVehicleEF	UBUS	0.04	0.29
tblVehicleEF	UBUS	0.95	0.16
tblVehicleEF	UBUS	8.6000e-003	4.3240e-003
tblVehicleEF	UBUS	1.5810e-003	2.2500e-004
tblVehicleEF	UBUS	6.6800e-003	2.7840e-003
tblVehicleEF	UBUS	0.11	0.04
tblVehicleEF	UBUS	3.7560e-003	1.9370e-003
tblVehicleEF	UBUS	2.33	5.39
tblVehicleEF	UBUS	0.04	0.29
tblVehicleEF	UBUS	1.05	0.17
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	12.00	17.00
tblVehicleTrips	PB_TP	50.00	69.00

tblVehicleTrips	PB_TP	43.00	79.00
tblVehicleTrips	PB_TP	44.00	78.00
tblVehicleTrips	PB_TP	11.00	76.00
tblVehicleTrips	PR_TP	51.00	83.00
tblVehicleTrips	PR_TP	29.00	31.00
tblVehicleTrips	PR_TP	37.00	21.00
tblVehicleTrips	PR_TP	38.00	22.00
tblVehicleTrips	PR_TP	54.00	24.00
tblVehicleTrips	ST_TR	6.39	4.78
tblVehicleTrips	ST_TR	696.00	85.88
tblVehicleTrips	ST_TR	722.03	499.64
tblVehicleTrips	ST_TR	158.37	119.56
tblVehicleTrips	ST_TR	94.36	88.79
tblVehicleTrips	ST_TR	49.97	43.14
tblVehicleTrips	SU_TR	5.86	3.98
tblVehicleTrips	SU_TR	500.00	85.88
tblVehicleTrips	SU_TR	542.72	499.64
tblVehicleTrips	SU_TR	131.84	139.33
tblVehicleTrips	SU_TR	72.16	70.97
tblVehicleTrips	SU_TR	25.24	19.73
tblVehicleTrips	WD_TR	6.65	5.30
tblVehicleTrips	WD_TR	716.00	803.38
tblVehicleTrips	WD_TR	496.12	325.70
tblVehicleTrips	WD_TR	127.15	109.58
tblVehicleTrips	WD_TR	89.95	82.68
tblVehicleTrips	WD_TR	42.70	35.31
tblWoodstoves	NumberCatalytic	57.50	0.00

tblWoodstoves	NumberNoncatalytic	57.50	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					
2020	0.0000	0.0000	0.0000	0.0000	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					
2020	0.0000	0.0000	0.0000	0.0000	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**

The Bowery Mixed-Use Project (Operations) - Orange 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	35.1901	20.1745	103.3872	0.1268		2.0682	2.0682		2.0682	2.0682	0.0000	24,524.3992	24,524.3992	0.6332	0.4465	24,673.2779
Energy	0.8644	7.6462	5.0476	0.0472		0.5972	0.5972		0.5972	0.5972		9,429.6274	9,429.6274	0.1807	0.1729	9,485.6630
Mobile	40.1710	70.9809	278.5235	0.7266	72.8865	0.7091	73.5956	19.4667	0.6643	20.1310		74,492.3210	74,492.3210	5.0208		74,617.8409
Total	**76.2254**	**98.8016**	**386.9583**	**0.9005**	**72.8865**	**3.3745**	**76.2610**	**19.4667**	**3.3297**	**22.7964**	**0.0000**	**108,446.3475**	**108,446.3475**	**5.8348**	**0.6194**	**108,776.7818**

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	35.1901	20.1745	103.3872	0.1268		2.0682	2.0682		2.0682	2.0682	0.0000	24,524.3992	24,524.3992	0.6332	0.4465	24,673.2779
Energy	0.8644	7.6462	5.0476	0.0472		0.5972	0.5972		0.5972	0.5972		9,429.6274	9,429.6274	0.1807	0.1729	9,485.6630
Mobile	40.1710	70.9809	278.5235	0.7266	72.8865	0.7091	73.5956	19.4667	0.6643	20.1310		74,492.3210	74,492.3210	5.0208		74,617.8409
Total	**76.2254**	**98.8016**	**386.9583**	**0.9005**	**72.8865**	**3.3745**	**76.2610**	**19.4667**	**3.3297**	**22.7964**	**0.0000**	**108,446.3475**	**108,446.3475**	**5.8348**	**0.6194**	**108,776.7818**

	ROG	NOx	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	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 11.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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	40.1710	70.9809	278.5235	0.7266	72.8865	0.7091	73.5956	19.4667	0.6643	20.1310		74,492.3210	74,492.3210	5.0208		74,617.8409
Unmitigated	40.1710	70.9809	278.5235	0.7266	72.8865	0.7091	73.5956	19.4667	0.6643	20.1310		74,492.3210	74,492.3210	5.0208		74,617.8409

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	6,095.00	5,497.00	4577.00	19,794,585	19,794,585
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	1,606.76	171.76	171.76	2,985,979	2,985,979
Fast Food Restaurant with Drive Thru	3,257.00	4,996.40	4996.40	3,608,201	3,608,201
High Turnover (Sit Down Restaurant)	2,739.50	2,989.00	3483.25	2,023,733	2,023,733
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	2,067.00	2,219.75	1774.25	1,549,661	1,549,661
Regional Shopping Center	635.58	776.52	355.14	525,370	525,370
Total	16,400.84	16,650.43	15,357.80	30,487,528	30,487,528

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	83	0	17
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	31	0	69
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	21	0	79
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	22	0	78
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	24	0	76

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Enclosed Parking with Elevator	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Fast Food Restaurant w/o Drive Thru	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Fast Food Restaurant with Drive Thru	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
High Turnover (Sit Down Restaurant)	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Other Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Quality Restaurant	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Regional Shopping Center	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

The Bowery Mixed-Use Project (Operations) - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8644	7.6462	5.0476	0.0472		0.5972	0.5972		0.5972	0.5972		9,429.6274	9,429.6274	0.1807	0.1729	9,485.6630
NaturalGas Unmitigated	0.8644	7.6462	5.0476	0.0472		0.5972	0.5972		0.5972	0.5972		9,429.6274	9,429.6274	0.1807	0.1729	9,485.6630

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					
Apartments Mid Rise	36004.3	0.3883	3.3181	1.4119	0.0212		0.2683	0.2683		0.2683	0.2683		4,235.8031	4,235.8031	0.0812	0.0777	4,260.9743
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	1420.93	0.0153	0.1393	0.1170	8.4000e-004		0.0106	0.0106		0.0106	0.0106		167.1684	167.1684	3.2000e-003	3.0600e-003	168.1618
Fast Food Restaurant with Drive Thru	7104.66	0.0766	0.6965	0.5851	4.1800e-003		0.0529	0.0529		0.0529	0.0529		835.8421	835.8421	0.0160	0.0153	840.8091
High Turnover (Sit Down Restaurant)	17761.6	0.1916	1.7413	1.4627	0.0105		0.1323	0.1323		0.1323	0.1323		2,089.6052	2,089.6052	0.0401	0.0383	2,102.0226
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	17761.6	0.1916	1.7413	1.4627	0.0105		0.1323	0.1323		0.1323	0.1323		2,089.6052	2,089.6052	0.0401	0.0383	2,102.0226
Regional Shopping Center	98.6301	1.0600e-003	9.6700e-003	8.1200e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004		11.6036	11.6036	2.2000e-004	2.1000e-004	11.6725
Total		**0.8644**	**7.6463**	**5.0476**	**0.0472**		**0.5972**	**0.5972**		**0.5972**	**0.5972**		**9,429.6274**	**9,429.6274**	**0.1807**	**0.1729**	**9,485.6630**

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					
Apartments Mid Rise	36.0043	0.3883	3.3181	1.4119	0.0212		0.2683	0.2683		0.2683	0.2683		4,235.8031	4,235.8031	0.0812	0.0777	4,260.9743
Enclosed Parking with Elevator	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
Fast Food Restaurant w/o Drive Thru	1.42093	0.0153	0.1393	0.1170	8.4000e-004		0.0106	0.0106		0.0106	0.0106		167.1684	167.1684	3.2000e-003	3.0600e-003	168.1618
Fast Food Restaurant with Drive Thru	7.10466	0.0766	0.6965	0.5851	4.1800e-003		0.0529	0.0529		0.0529	0.0529		835.8421	835.8421	0.0160	0.0153	840.8091
High Turnover (Sit Down Restaurant)	17.7616	0.1916	1.7413	1.4627	0.0105		0.1323	0.1323		0.1323	0.1323		2,089.6052	2,089.6052	0.0401	0.0383	2,102.0226
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	17.7616	0.1916	1.7413	1.4627	0.0105		0.1323	0.1323		0.1323	0.1323		2,089.6052	2,089.6052	0.0401	0.0383	2,102.0226
Regional Shopping Center	0.0986301	1.0600e-003	9.6700e-003	8.1200e-003	6.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004		11.6036	11.6036	2.2000e-004	2.1000e-004	11.6725
Total		**0.8644**	**7.6463**	**5.0476**	**0.0472**		**0.5972**	**0.5972**		**0.5972**	**0.5972**		**9,429.6274**	**9,429.6274**	**0.1807**	**0.1729**	**9,485.6630**

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	35.1901	20.1745	103.3872	0.1268		2.0682	2.0682		2.0682	2.0682	0.0000	24,524.3992	24,524.3992	0.6332	0.4465	24,673.2779
Unmitigated	35.1901	20.1745	103.3872	0.1268		2.0682	2.0682		2.0682	2.0682	0.0000	24,524.3992	24,524.3992	0.6332	0.4465	24,673.2779

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	2.5111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.5508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.2324	19.0765	8.1177	0.1218		1.5424	1.5424		1.5424	1.5424	0.0000	24,352.9412	24,352.9412	0.4668	0.4465	24,497.6585
Landscaping	2.8958	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258		171.4580	171.4580	0.1665		175.6194
Total	**35.1901**	**20.1745**	**103.3872**	**0.1268**		**2.0682**	**2.0682**		**2.0682**	**2.0682**	**0.0000**	**24,524.3992**	**24,524.3992**	**0.6332**	**0.4465**	**24,673.2779**

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	2.5111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	27.5508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.2324	19.0765	8.1177	0.1218		1.5424	1.5424		1.5424	1.5424	0.0000	24,352.9412	24,352.9412	0.4668	0.4465	24,497.6585
Landscaping	2.8958	1.0980	95.2696	5.0300e-003		0.5258	0.5258		0.5258	0.5258		171.4580	171.4580	0.1665		175.6194
Total	**35.1901**	**20.1745**	**103.3872**	**0.1268**		**2.0682**	**2.0682**		**2.0682**	**2.0682**	**0.0000**	**24,524.3992**	**24,524.3992**	**0.6332**	**0.4465**	**24,673.2779**

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

APPENDIX 3.3:

CALEEMOD OPERATIONAL EMISSIONS MODEL OUTPUTS (EXISTING)

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The Bowery Mixed-Use Project (Existing Operations - Passenger Cars)

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	212.12	1000sqft	4.87	212,121.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**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

The Bowery Mixed-Use Project (Existing Operations - Passenger Cars) - Orange County, Summer

Project Characteristics -

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the Trip Generation

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.55	0.60
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.23
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.7970e-003	0.00
tblFleetMix	MCY	4.8300e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0410e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.6370e-003	0.00
tblFleetMix	SBUS	5.8300e-004	0.00
tblFleetMix	UBUS	1.6330e-003	0.00
tblLandUse	LandUseSquareFeet	212,120.00	212,121.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.11	1.0000e-006
tblVehicleEF	HHD	2.83	4.80
tblVehicleEF	HHD	1.29	1.00
tblVehicleEF	HHD	4.31	0.01
tblVehicleEF	HHD	4,148.19	1,017.94
tblVehicleEF	HHD	1,727.41	1,575.45
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	22.81	6.13
tblVehicleEF	HHD	4.81	4.97
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.7720e-003
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	1.9000e-004	1.0000e-005
tblVehicleEF	HHD	1.6300e-004	1.9000e-005
tblVehicleEF	HHD	8.1630e-003	1.2480e-003
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tblVehicleEF	HHD	1.1700e-004	1.3000e-005
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tblVehicleEF	HHD	7.1800e-004	4.5010e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.04	9.3380e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.0200e-004	2.0000e-006
tblVehicleEF	HHD	1.6300e-004	1.9000e-005
tblVehicleEF	HHD	8.1630e-003	1.2480e-003
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tblVehicleEF	HHD	1.1700e-004	1.3000e-005
tblVehicleEF	HHD	0.33	0.34
tblVehicleEF	HHD	7.1800e-004	4.5010e-003
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tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.11	1.0000e-006
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tblVehicleEF	HHD	4.11	0.01
tblVehicleEF	HHD	4,391.71	1,022.60
tblVehicleEF	HHD	1,727.41	1,575.45
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	23.54	6.05
tblVehicleEF	HHD	4.56	4.70
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.7720e-003
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tblVehicleEF	HHD	0.16	8.0130e-003

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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.08
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tblVehicleEF	HHD	0.03	0.03
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tblVehicleEF	HHD	0.03	9.2800e-003

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tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.05	0.08
tblVehicleEF	LDA	0.01	0.02
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tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
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tblVehicleEF	LDT1	0.29	0.23
tblVehicleEF	LDT1	0.11	0.12
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tblVehicleEF	LDT1	0.18	0.77
tblVehicleEF	LDT1	0.24	0.45
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tblVehicleEF	LDT1	8.1000e-004	6.7900e-004
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.29	0.23
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.77

tblVehicleEF	LDT1	0.26	0.49
tblVehicleEF	LDT1	0.01	8.6770e-003
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tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
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tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.16	0.71
tblVehicleEF	LDT1	0.21	0.40
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tblVehicleEF	LDT1	8.0200e-004	6.7200e-004
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tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.16	0.71
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tblVehicleEF	LDT1	0.01	8.0820e-003

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tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.21	0.92
tblVehicleEF	LDT1	0.24	0.46
tblVehicleEF	LDT1	3.3930e-003	3.2160e-003
tblVehicleEF	LDT1	8.1200e-004	6.8100e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.21	0.92
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	6.8790e-003	5.1110e-003
tblVehicleEF	LDT2	8.6540e-003	0.08
tblVehicleEF	LDT2	0.85	1.09

tblVehicleEF	LDT2	1.77	2.88
tblVehicleEF	LDT2	393.42	364.39
tblVehicleEF	LDT2	86.53	76.12
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LDT2	3.9410e-003	3.6050e-003
tblVehicleEF	LDT2	8.9500e-004	7.5300e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.13	0.41
tblVehicleEF	LDT2	7.2530e-003	5.4140e-003
tblVehicleEF	LDT2	7.7840e-003	0.07
tblVehicleEF	LDT2	0.93	1.18
tblVehicleEF	LDT2	1.53	2.48
tblVehicleEF	LDT2	409.58	376.30

tblVehicleEF	LDT2	86.53	75.36
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	4.1030e-003	3.7230e-003
tblVehicleEF	LDT2	8.9100e-004	7.4600e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.7510e-003	5.0130e-003
tblVehicleEF	LDT2	8.8330e-003	0.08
tblVehicleEF	LDT2	0.83	1.05
tblVehicleEF	LDT2	1.82	2.97
tblVehicleEF	LDT2	387.46	359.99
tblVehicleEF	LDT2	86.53	76.29
tblVehicleEF	LDT2	0.08	0.09

tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	3.8810e-003	3.5620e-003
tblVehicleEF	LDT2	8.9600e-004	7.5500e-004
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.13	0.42
tblVehicleEF	LHD1	6.3610e-003	6.2140e-003
tblVehicleEF	LHD1	0.01	6.1820e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.94	0.73
tblVehicleEF	LHD1	2.91	1.20
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.04
tblVehicleEF	LHD1	35.31	13.21

tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.47	1.00
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003
tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	3.0060e-003	2.5300e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8490e-003	1.5400e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.29	0.52
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005
tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0800e-004	1.3100e-004
tblVehicleEF	LHD1	3.0060e-003	2.5300e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.8490e-003	1.5400e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.29	0.52
tblVehicleEF	LHD1	0.34	0.10

tblVehicleEF	LHD1	6.3610e-003	6.2260e-003
tblVehicleEF	LHD1	0.01	6.2770e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.95	0.74
tblVehicleEF	LHD1	2.79	1.15
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.05
tblVehicleEF	LHD1	35.31	13.12
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.38	0.94
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003
tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	4.2030e-003	3.5460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5350e-003	2.1240e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.28	0.51
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005

tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0600e-004	1.3000e-004
tblVehicleEF	LHD1	4.2030e-003	3.5460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.1240e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.28	0.51
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	6.3610e-003	6.2110e-003
tblVehicleEF	LHD1	0.01	6.1560e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.94	0.73
tblVehicleEF	LHD1	2.93	1.20
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.03
tblVehicleEF	LHD1	35.31	13.22
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.44	0.98
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003

tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	3.1710e-003	2.6840e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8860e-003	1.5770e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.57
tblVehicleEF	LHD1	0.31	0.10
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005
tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0900e-004	1.3100e-004
tblVehicleEF	LHD1	3.1710e-003	2.6840e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.8860e-003	1.5770e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.57
tblVehicleEF	LHD1	0.34	0.10
tblVehicleEF	LHD2	4.8210e-003	4.6270e-003
tblVehicleEF	LHD2	5.5970e-003	4.4370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.51
tblVehicleEF	LHD2	1.65	0.86
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.11
tblVehicleEF	LHD2	30.51	10.81

tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.15	1.18
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.3970e-003	1.6410e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9000e-004	1.0050e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004
tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3600e-004	1.0700e-004
tblVehicleEF	LHD2	1.3970e-003	1.6410e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.9000e-004	1.0050e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.18	0.07

tblVehicleEF	LHD2	4.8210e-003	4.6370e-003
tblVehicleEF	LHD2	5.6690e-003	4.4870e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.51
tblVehicleEF	LHD2	1.58	0.82
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.12
tblVehicleEF	LHD2	30.51	10.75
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.12
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.9580e-003	2.3000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2220e-003	1.3860e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.16	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004

tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
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tblVehicleEF	LHD2	1.9580e-003	2.3000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2220e-003	1.3860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.17	0.07
tblVehicleEF	LHD2	4.8210e-003	4.6250e-003
tblVehicleEF	LHD2	5.5770e-003	4.4240e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.50
tblVehicleEF	LHD2	1.66	0.86
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.11
tblVehicleEF	LHD2	30.51	10.82
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.13	1.16
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.4510e-003	1.7220e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	1.0130e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.12	0.38
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004
tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3600e-004	1.0700e-004
tblVehicleEF	LHD2	1.4510e-003	1.7220e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.9600e-004	1.0130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.12	0.38
tblVehicleEF	LHD2	0.18	0.07
tblVehicleEF	MCY	0.47	0.36
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.31	19.68
tblVehicleEF	MCY	9.52	8.39
tblVehicleEF	MCY	176.22	214.43
tblVehicleEF	MCY	46.17	60.88
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003

tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003
tblVehicleEF	MCY	1.14	1.17
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.43	2.45
tblVehicleEF	MCY	0.69	2.27
tblVehicleEF	MCY	2.08	1.84
tblVehicleEF	MCY	2.1500e-003	2.1220e-003
tblVehicleEF	MCY	6.7900e-004	6.0200e-004
tblVehicleEF	MCY	1.14	1.17
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.99	3.00
tblVehicleEF	MCY	0.69	2.27
tblVehicleEF	MCY	2.27	2.01
tblVehicleEF	MCY	0.46	0.35
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	18.54	18.88
tblVehicleEF	MCY	8.79	7.71
tblVehicleEF	MCY	176.22	212.93
tblVehicleEF	MCY	46.17	59.14
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003
tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003

tblVehicleEF	MCY	1.72	1.76
tblVehicleEF	MCY	0.76	0.79
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	2.36	2.38
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	1.87	1.64
tblVehicleEF	MCY	2.1350e-003	2.1070e-003
tblVehicleEF	MCY	6.6000e-004	5.8500e-004
tblVehicleEF	MCY	1.72	1.76
tblVehicleEF	MCY	0.76	0.79
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.03	1.78
tblVehicleEF	MCY	0.47	0.36
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	19.42	19.80
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	176.22	214.67
tblVehicleEF	MCY	46.17	61.19
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003
tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003
tblVehicleEF	MCY	1.27	1.30
tblVehicleEF	MCY	0.93	0.96

tblVehicleEF	MCY	0.76	0.78
tblVehicleEF	MCY	2.44	2.46
tblVehicleEF	MCY	0.79	2.59
tblVehicleEF	MCY	2.12	1.88
tblVehicleEF	MCY	2.1520e-003	2.1240e-003
tblVehicleEF	MCY	6.8200e-004	6.0500e-004
tblVehicleEF	MCY	1.27	1.30
tblVehicleEF	MCY	0.93	0.96
tblVehicleEF	MCY	0.76	0.78
tblVehicleEF	MCY	3.00	3.02
tblVehicleEF	MCY	0.79	2.59
tblVehicleEF	MCY	2.31	2.05
tblVehicleEF	MDV	0.01	7.1710e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.51	1.34
tblVehicleEF	MDV	3.15	3.40
tblVehicleEF	MDV	527.72	446.33
tblVehicleEF	MDV	113.45	92.14
tblVehicleEF	MDV	0.17	0.13
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.10	0.44
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MDV	5.2890e-003	4.4130e-003
tblVehicleEF	MDV	1.1900e-003	9.1200e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.10	0.44
tblVehicleEF	MDV	0.27	0.53
tblVehicleEF	MDV	0.01	7.5390e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.62	1.44
tblVehicleEF	MDV	2.73	2.93
tblVehicleEF	MDV	548.79	458.88
tblVehicleEF	MDV	113.45	91.23
tblVehicleEF	MDV	0.15	0.12
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.22	0.44

tblVehicleEF	MDV	5.5020e-003	4.5370e-003
tblVehicleEF	MDV	1.1830e-003	9.0300e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.25	0.48
tblVehicleEF	MDV	0.01	7.0490e-003
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tblVehicleEF	MDV	1.47	1.30
tblVehicleEF	MDV	3.23	3.50
tblVehicleEF	MDV	519.95	441.69
tblVehicleEF	MDV	113.45	92.34
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.25	0.50
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tblVehicleEF	MDV	1.1920e-003	9.1400e-004

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tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.28	0.54
tblVehicleEF	MH	0.03	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.10	0.34
tblVehicleEF	MH	6.44	0.00
tblVehicleEF	MH	1,116.28	994.19
tblVehicleEF	MH	60.49	0.00
tblVehicleEF	MH	1.62	4.22
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.4790e-003	0.00
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tblVehicleEF	MH	0.03	0.11
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tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1800e-004	0.00

tblVehicleEF	MH	1.09	0.00
tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.04	3.5320e-003
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tblVehicleEF	MH	3.13	0.34
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tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.63	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1300e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.63	0.00
tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.03	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.09	0.34
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tblVehicleEF	MH	60.49	0.00
tblVehicleEF	MH	1.58	4.14
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tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
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tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.22	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
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tblVehicleEF	MH	0.01	9.3990e-003
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tblVehicleEF	MH	0.09	0.00
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tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.44	0.00
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tblVehicleEF	MHD	8.3500e-004	1.2400e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.9900e-004	3.3900e-004

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tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.45	0.07
tblVehicleEF	MHD	1.3790e-003	5.5400e-004
tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	1.2870e-003	5.3100e-004
tblVehicleEF	MHD	0.05	0.02
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tblVehicleEF	MHD	7.9900e-004	3.3900e-004
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tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.49	0.08
tblVehicleEF	MHD	0.02	4.8610e-003
tblVehicleEF	MHD	9.4650e-003	8.1370e-003
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tblVehicleEF	MHD	3.4240e-003	1.7690e-003
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tblVehicleEF	MHD	9.0700e-004	1.3500e-004

tblVehicleEF	MHD	3.2760e-003	1.6920e-003
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tblVehicleEF	MHD	8.3500e-004	1.2400e-004
tblVehicleEF	MHD	1.8220e-003	7.5400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.1230e-003	4.7800e-004
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tblVehicleEF	MHD	0.02	0.10
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4800e-004	1.3400e-004
tblVehicleEF	MHD	1.8220e-003	7.5400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	1.1230e-003	4.7800e-004
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tblVehicleEF	MHD	0.15	0.16
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tblVehicleEF	OBUS	1.5110e-003	1.8740e-003
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tblVehicleEF	OBUS	8.2100e-004	2.0700e-004

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tblVehicleEF	OBUS	2.0790e-003	2.5650e-003
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tblVehicleEF	OBUS	0.04	0.07

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tblVehicleEF	SBUS	1,108.93	1,157.60
tblVehicleEF	SBUS	51.39	5.03
tblVehicleEF	SBUS	11.54	4.12
tblVehicleEF	SBUS	5.13	6.69
tblVehicleEF	SBUS	0.01	6.3910e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	9.3700e-004	6.7000e-005
tblVehicleEF	SBUS	0.01	6.1150e-003
tblVehicleEF	SBUS	2.6990e-003	2.6820e-003
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	8.6100e-004	6.1000e-005
tblVehicleEF	SBUS	5.9890e-003	1.8250e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.95	0.30
tblVehicleEF	SBUS	2.9120e-003	8.3100e-004
tblVehicleEF	SBUS	0.15	0.16

tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.49	0.04
tblVehicleEF	SBUS	0.01	3.4810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6400e-004	5.0000e-005
tblVehicleEF	SBUS	5.9890e-003	1.8250e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.37	0.43
tblVehicleEF	SBUS	2.9120e-003	8.3100e-004
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.54	0.04
tblVehicleEF	SBUS	0.88	0.06
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.10	6.7100e-003
tblVehicleEF	SBUS	8.05	2.57
tblVehicleEF	SBUS	1.41	1.31
tblVehicleEF	SBUS	10.55	0.99
tblVehicleEF	SBUS	1,086.99	335.41
tblVehicleEF	SBUS	1,108.93	1,157.55
tblVehicleEF	SBUS	51.39	5.34
tblVehicleEF	SBUS	10.69	3.84
tblVehicleEF	SBUS	5.34	6.96
tblVehicleEF	SBUS	0.02	9.2130e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	9.3700e-004	6.7000e-005

tblVehicleEF	SBUS	0.02	8.8140e-003
tblVehicleEF	SBUS	2.6990e-003	2.6820e-003
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	8.6100e-004	6.1000e-005
tblVehicleEF	SBUS	4.6710e-003	1.4690e-003
tblVehicleEF	SBUS	0.05	0.01
tblVehicleEF	SBUS	0.96	0.30
tblVehicleEF	SBUS	2.1160e-003	6.2800e-004
tblVehicleEF	SBUS	0.14	0.16
tblVehicleEF	SBUS	0.03	0.13
tblVehicleEF	SBUS	0.56	0.04
tblVehicleEF	SBUS	0.01	3.2000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.9700e-004	5.3000e-005
tblVehicleEF	SBUS	4.6710e-003	1.4690e-003
tblVehicleEF	SBUS	0.05	0.01
tblVehicleEF	SBUS	1.38	0.43
tblVehicleEF	SBUS	2.1160e-003	6.2800e-004
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.13
tblVehicleEF	SBUS	0.61	0.04
tblVehicleEF	UBUS	2.19	7.32
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	10.98	27.66
tblVehicleEF	UBUS	14.08	1.81
tblVehicleEF	UBUS	1,864.44	2,044.16
tblVehicleEF	UBUS	130.39	22.76

tblVehicleEF	UBUS	6.14	4.10
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	6.9860e-003	1.9960e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	3.9610e-003	1.3650e-003
tblVehicleEF	UBUS	0.68	0.11
tblVehicleEF	UBUS	0.03	0.15
tblVehicleEF	UBUS	1.04	0.14
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5570e-003	2.2500e-004
tblVehicleEF	UBUS	6.9860e-003	1.9960e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	3.9610e-003	1.3650e-003
tblVehicleEF	UBUS	2.93	7.48
tblVehicleEF	UBUS	0.03	0.15
tblVehicleEF	UBUS	1.14	0.15
tblVehicleEF	UBUS	2.19	7.32
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	10.97	27.66
tblVehicleEF	UBUS	12.47	1.61

tblVehicleEF	UBUS	1,864.44	2,044.17
tblVehicleEF	UBUS	130.39	22.40
tblVehicleEF	UBUS	5.77	4.09
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	9.3910e-003	2.7340e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	5.3580e-003	1.8360e-003
tblVehicleEF	UBUS	0.68	0.11
tblVehicleEF	UBUS	0.03	0.13
tblVehicleEF	UBUS	0.96	0.13
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5290e-003	2.2200e-004
tblVehicleEF	UBUS	9.3910e-003	2.7340e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	5.3580e-003	1.8360e-003
tblVehicleEF	UBUS	2.94	7.48
tblVehicleEF	UBUS	0.03	0.13
tblVehicleEF	UBUS	1.05	0.14
tblVehicleEF	UBUS	2.18	7.32
tblVehicleEF	UBUS	0.08	0.03

tblVehicleEF	UBUS	10.97	27.66
tblVehicleEF	UBUS	14.36	1.85
tblVehicleEF	UBUS	1,864.44	2,044.16
tblVehicleEF	UBUS	130.39	22.82
tblVehicleEF	UBUS	6.02	4.10
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	8.0730e-003	1.9320e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2740e-003	1.3000e-003
tblVehicleEF	UBUS	0.67	0.11
tblVehicleEF	UBUS	0.04	0.18
tblVehicleEF	UBUS	1.05	0.14
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5620e-003	2.2600e-004
tblVehicleEF	UBUS	8.0730e-003	1.9320e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2740e-003	1.3000e-003
tblVehicleEF	UBUS	2.93	7.48
tblVehicleEF	UBUS	0.04	0.18
tblVehicleEF	UBUS	1.15	0.15

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	2.49	1.34
tblVehicleTrips	SU_TR	0.73	0.66
tblVehicleTrips	WD_TR	6.83	1.79

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					
2019	0.0000	0.0000	0.0000	0.0000	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					
2019	0.0000	0.0000	0.0000	0.0000	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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Energy	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Mobile	1.0644	1.0499	16.6493	0.0466	4.7884	0.0273	4.8157	1.2694	0.0252	1.2945		4,715.0104	4,715.0104	0.1214		4,718.0455
Total	**5.8624**	**1.5709**	**17.1086**	**0.0498**	**4.7884**	**0.0670**	**4.8554**	**1.2694**	**0.0648**	**1.3342**		**5,339.9677**	**5,339.9677**	**0.1335**	**0.0115**	**5,346.7195**

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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Energy	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Mobile	1.0644	1.0499	16.6493	0.0466	4.7884	0.0273	4.8157	1.2694	0.0252	1.2945		4,715.0104	4,715.0104	0.1214		4,718.0455
Total	**5.8624**	**1.5709**	**17.1086**	**0.0498**	**4.7884**	**0.0670**	**4.8554**	**1.2694**	**0.0648**	**1.3342**		**5,339.9677**	**5,339.9677**	**0.1335**	**0.0115**	**5,346.7195**

	ROG	NOx	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	11/14/2019	11/14/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

3.2 Demolition - 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	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 Demolition - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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	1.0644	1.0499	16.6493	0.0466	4.7884	0.0273	4.8157	1.2694	0.0252	1.2945		4,715.0104	4,715.0104	0.1214		4,718.0455
Unmitigated	1.0644	1.0499	16.6493	0.0466	4.7884	0.0273	4.8157	1.2694	0.0252	1.2945		4,715.0104	4,715.0104	0.1214		4,718.0455

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	379.69	284.24	140.00	2,004,967	2,004,967
Total	379.69	284.24	140.00	2,004,967	2,004,967

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
Industrial Park	16.60	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
Industrial Park	0.595976	0.047720	0.227789	0.128515	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	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
NaturalGas Unmitigated	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244

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					
Industrial Park	5311.74	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Total		**0.0573**	**0.5208**	**0.4374**	**3.1200e-003**		**0.0396**	**0.0396**		**0.0396**	**0.0396**		**624.9109**	**624.9109**	**0.0120**	**0.0115**	**628.6244**

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					
Industrial Park	5.31174	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Total		**0.0573**	**0.5208**	**0.4374**	**3.1200e-003**		**0.0396**	**0.0396**		**0.0396**	**0.0396**		**624.9109**	**624.9109**	**0.0120**	**0.0115**	**628.6244**

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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Unmitigated	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496

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	0.5387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Total	**4.7408**	**2.0000e-004**	**0.0219**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0464**	**0.0464**	**1.3000e-004**		**0.0496**

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	0.5387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Total	**4.7408**	**2.0000e-004**	**0.0219**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0464**	**0.0464**	**1.3000e-004**		**0.0496**

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

The Bowery Mixed-Use Project (Existing Operations - Passenger Cars)

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	212.12	1000sqft	4.87	212,121.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**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

The Bowery Mixed-Use Project (Existing Operations - Passenger Cars) - Orange County, Winter

Project Characteristics -

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the Trip Generation

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.55	0.60
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.23
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.7970e-003	0.00
tblFleetMix	MCY	4.8300e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0410e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.6370e-003	0.00
tblFleetMix	SBUS	5.8300e-004	0.00
tblFleetMix	UBUS	1.6330e-003	0.00
tblLandUse	LandUseSquareFeet	212,120.00	212,121.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.11	1.0000e-006
tblVehicleEF	HHD	2.83	4.80
tblVehicleEF	HHD	1.29	1.00
tblVehicleEF	HHD	4.31	0.01
tblVehicleEF	HHD	4,148.19	1,017.94
tblVehicleEF	HHD	1,727.41	1,575.45
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	22.81	6.13
tblVehicleEF	HHD	4.81	4.97
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.7720e-003
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	1.9000e-004	1.0000e-005
tblVehicleEF	HHD	1.6300e-004	1.9000e-005
tblVehicleEF	HHD	8.1630e-003	1.2480e-003
tblVehicleEF	HHD	0.69	0.42

tblVehicleEF	HHD	1.1700e-004	1.3000e-005
tblVehicleEF	HHD	0.15	0.18
tblVehicleEF	HHD	7.1800e-004	4.5010e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.04	9.3380e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.0200e-004	2.0000e-006
tblVehicleEF	HHD	1.6300e-004	1.9000e-005
tblVehicleEF	HHD	8.1630e-003	1.2480e-003
tblVehicleEF	HHD	0.82	0.49
tblVehicleEF	HHD	1.1700e-004	1.3000e-005
tblVehicleEF	HHD	0.33	0.34
tblVehicleEF	HHD	7.1800e-004	4.5010e-003
tblVehicleEF	HHD	0.14	5.0000e-006
tblVehicleEF	HHD	0.70	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.11	1.0000e-006
tblVehicleEF	HHD	2.06	4.63
tblVehicleEF	HHD	1.30	1.00
tblVehicleEF	HHD	4.11	0.01
tblVehicleEF	HHD	4,391.71	1,022.60
tblVehicleEF	HHD	1,727.41	1,575.45
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	23.54	6.05
tblVehicleEF	HHD	4.56	4.70
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.7720e-003
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	1.9000e-004	1.0000e-005
tblVehicleEF	HHD	2.3600e-004	2.8000e-005
tblVehicleEF	HHD	8.1860e-003	1.2280e-003
tblVehicleEF	HHD	0.65	0.43
tblVehicleEF	HHD	1.7000e-004	1.9000e-005
tblVehicleEF	HHD	0.15	0.18
tblVehicleEF	HHD	7.0300e-004	4.4500e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.04	9.3800e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.9900e-004	2.0000e-006
tblVehicleEF	HHD	2.3600e-004	2.8000e-005
tblVehicleEF	HHD	8.1860e-003	1.2280e-003
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tblVehicleEF	HHD	1.7000e-004	1.9000e-005
tblVehicleEF	HHD	0.33	0.34
tblVehicleEF	HHD	7.0300e-004	4.4500e-003
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tblVehicleEF	HHD	0.80	0.02
tblVehicleEF	HHD	0.16	8.0130e-003

tblVehicleEF	HHD	0.11	1.0000e-006
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tblVehicleEF	HHD	1.29	0.68
tblVehicleEF	HHD	4.34	0.01
tblVehicleEF	HHD	3,811.92	982.27
tblVehicleEF	HHD	1,727.41	1,488.13
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	21.81	6.05
tblVehicleEF	HHD	4.73	4.79
tblVehicleEF	HHD	0.04	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.04	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.5470e-003
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	1.9000e-004	1.0000e-005
tblVehicleEF	HHD	1.6800e-004	2.1000e-005
tblVehicleEF	HHD	9.6220e-003	1.6080e-003
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tblVehicleEF	HHD	1.2100e-004	1.4000e-005
tblVehicleEF	HHD	0.15	0.17
tblVehicleEF	HHD	7.7000e-004	4.7670e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.03	9.2800e-003

tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.0300e-004	2.0000e-006
tblVehicleEF	HHD	1.6800e-004	2.1000e-005
tblVehicleEF	HHD	9.6220e-003	1.6080e-003
tblVehicleEF	HHD	0.88	0.47
tblVehicleEF	HHD	1.2100e-004	1.4000e-005
tblVehicleEF	HHD	0.33	0.19
tblVehicleEF	HHD	7.7000e-004	4.7670e-003
tblVehicleEF	HHD	0.15	5.0000e-006
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tblVehicleEF	LDA	1.37	2.24
tblVehicleEF	LDA	285.52	281.02
tblVehicleEF	LDA	62.52	57.40
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.9530e-003	1.7960e-003
tblVehicleEF	LDA	2.2880e-003	2.0630e-003
tblVehicleEF	LDA	1.8010e-003	1.6550e-003
tblVehicleEF	LDA	2.1040e-003	1.8970e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.28
tblVehicleEF	LDA	2.8600e-003	2.7800e-003

tblVehicleEF	LDA	6.4900e-004	5.6800e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.10	0.31
tblVehicleEF	LDA	5.6080e-003	3.8080e-003
tblVehicleEF	LDA	6.1910e-003	0.05
tblVehicleEF	LDA	0.73	0.89
tblVehicleEF	LDA	1.18	1.93
tblVehicleEF	LDA	297.57	292.58
tblVehicleEF	LDA	62.52	56.81
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	1.9530e-003	1.7960e-003
tblVehicleEF	LDA	2.2880e-003	2.0630e-003
tblVehicleEF	LDA	1.8010e-003	1.6550e-003
tblVehicleEF	LDA	2.1040e-003	1.8970e-003
tblVehicleEF	LDA	0.06	0.09
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.05	0.08
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.9810e-003	2.8940e-003
tblVehicleEF	LDA	6.4500e-004	5.6200e-004
tblVehicleEF	LDA	0.06	0.09

tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.05	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.09	0.28
tblVehicleEF	LDA	5.2140e-003	3.5120e-003
tblVehicleEF	LDA	7.0400e-003	0.06
tblVehicleEF	LDA	0.65	0.79
tblVehicleEF	LDA	1.41	2.31
tblVehicleEF	LDA	281.07	276.76
tblVehicleEF	LDA	62.52	57.53
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.9530e-003	1.7960e-003
tblVehicleEF	LDA	2.2880e-003	2.0630e-003
tblVehicleEF	LDA	1.8010e-003	1.6550e-003
tblVehicleEF	LDA	2.1040e-003	1.8970e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.26
tblVehicleEF	LDA	0.09	0.29
tblVehicleEF	LDA	2.8150e-003	2.7380e-003
tblVehicleEF	LDA	6.4900e-004	5.6900e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.26
tblVehicleEF	LDA	0.10	0.31
tblVehicleEF	LDT1	0.01	8.2280e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.43	1.58
tblVehicleEF	LDT1	3.36	2.49
tblVehicleEF	LDT1	342.68	329.39
tblVehicleEF	LDT1	75.08	68.62
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.7770e-003	2.6580e-003
tblVehicleEF	LDT1	3.5610e-003	3.0010e-003
tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.29	0.23
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.18	0.77
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT1	3.4440e-003	3.2600e-003
tblVehicleEF	LDT1	8.1000e-004	6.7900e-004
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.29	0.23
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.77

tblVehicleEF	LDT1	0.26	0.49
tblVehicleEF	LDT1	0.01	8.6770e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.70
tblVehicleEF	LDT1	2.89	2.14
tblVehicleEF	LDT1	356.48	341.21
tblVehicleEF	LDT1	75.08	67.90
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	2.7770e-003	2.6580e-003
tblVehicleEF	LDT1	3.5610e-003	3.0010e-003
tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.20	0.22
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.16	0.71
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.5840e-003	3.3760e-003
tblVehicleEF	LDT1	8.0200e-004	6.7200e-004
tblVehicleEF	LDT1	0.20	0.22
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.16	0.71
tblVehicleEF	LDT1	0.23	0.44
tblVehicleEF	LDT1	0.01	8.0820e-003

tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.39	1.53
tblVehicleEF	LDT1	3.46	2.57
tblVehicleEF	LDT1	337.59	325.03
tblVehicleEF	LDT1	75.08	68.77
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.7770e-003	2.6580e-003
tblVehicleEF	LDT1	3.5610e-003	3.0010e-003
tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.21	0.92
tblVehicleEF	LDT1	0.24	0.46
tblVehicleEF	LDT1	3.3930e-003	3.2160e-003
tblVehicleEF	LDT1	8.1200e-004	6.8100e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.21	0.92
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	6.8790e-003	5.1110e-003
tblVehicleEF	LDT2	8.6540e-003	0.08
tblVehicleEF	LDT2	0.85	1.09

tblVehicleEF	LDT2	1.77	2.88
tblVehicleEF	LDT2	393.42	364.39
tblVehicleEF	LDT2	86.53	76.12
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LDT2	3.9410e-003	3.6050e-003
tblVehicleEF	LDT2	8.9500e-004	7.5300e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.13	0.41
tblVehicleEF	LDT2	7.2530e-003	5.4140e-003
tblVehicleEF	LDT2	7.7840e-003	0.07
tblVehicleEF	LDT2	0.93	1.18
tblVehicleEF	LDT2	1.53	2.48
tblVehicleEF	LDT2	409.58	376.30

tblVehicleEF	LDT2	86.53	75.36
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	4.1030e-003	3.7230e-003
tblVehicleEF	LDT2	8.9100e-004	7.4600e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.7510e-003	5.0130e-003
tblVehicleEF	LDT2	8.8330e-003	0.08
tblVehicleEF	LDT2	0.83	1.05
tblVehicleEF	LDT2	1.82	2.97
tblVehicleEF	LDT2	387.46	359.99
tblVehicleEF	LDT2	86.53	76.29
tblVehicleEF	LDT2	0.08	0.09

tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	3.8810e-003	3.5620e-003
tblVehicleEF	LDT2	8.9600e-004	7.5500e-004
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.13	0.42
tblVehicleEF	LHD1	6.3610e-003	6.2140e-003
tblVehicleEF	LHD1	0.01	6.1820e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.94	0.73
tblVehicleEF	LHD1	2.91	1.20
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.04
tblVehicleEF	LHD1	35.31	13.21

tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.47	1.00
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003
tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	3.0060e-003	2.5300e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8490e-003	1.5400e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.29	0.52
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005
tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0800e-004	1.3100e-004
tblVehicleEF	LHD1	3.0060e-003	2.5300e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.8490e-003	1.5400e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.29	0.52
tblVehicleEF	LHD1	0.34	0.10

tblVehicleEF	LHD1	6.3610e-003	6.2260e-003
tblVehicleEF	LHD1	0.01	6.2770e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.95	0.74
tblVehicleEF	LHD1	2.79	1.15
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.05
tblVehicleEF	LHD1	35.31	13.12
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.38	0.94
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003
tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	4.2030e-003	3.5460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5350e-003	2.1240e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.28	0.51
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005

tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0600e-004	1.3000e-004
tblVehicleEF	LHD1	4.2030e-003	3.5460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.1240e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.28	0.51
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	6.3610e-003	6.2110e-003
tblVehicleEF	LHD1	0.01	6.1560e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.94	0.73
tblVehicleEF	LHD1	2.93	1.20
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.03
tblVehicleEF	LHD1	35.31	13.22
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.44	0.98
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003

tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	3.1710e-003	2.6840e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8860e-003	1.5770e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.57
tblVehicleEF	LHD1	0.31	0.10
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005
tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0900e-004	1.3100e-004
tblVehicleEF	LHD1	3.1710e-003	2.6840e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.8860e-003	1.5770e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.57
tblVehicleEF	LHD1	0.34	0.10
tblVehicleEF	LHD2	4.8210e-003	4.6270e-003
tblVehicleEF	LHD2	5.5970e-003	4.4370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.51
tblVehicleEF	LHD2	1.65	0.86
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.11
tblVehicleEF	LHD2	30.51	10.81

tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.15	1.18
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.3970e-003	1.6410e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9000e-004	1.0050e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004
tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3600e-004	1.0700e-004
tblVehicleEF	LHD2	1.3970e-003	1.6410e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.9000e-004	1.0050e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.18	0.07

tblVehicleEF	LHD2	4.8210e-003	4.6370e-003
tblVehicleEF	LHD2	5.6690e-003	4.4870e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.51
tblVehicleEF	LHD2	1.58	0.82
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.12
tblVehicleEF	LHD2	30.51	10.75
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.12
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.9580e-003	2.3000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2220e-003	1.3860e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.16	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004

tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3400e-004	1.0600e-004
tblVehicleEF	LHD2	1.9580e-003	2.3000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2220e-003	1.3860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.17	0.07
tblVehicleEF	LHD2	4.8210e-003	4.6250e-003
tblVehicleEF	LHD2	5.5770e-003	4.4240e-003
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tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.50
tblVehicleEF	LHD2	1.66	0.86
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.11
tblVehicleEF	LHD2	30.51	10.82
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.13	1.16
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.4510e-003	1.7220e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	1.0130e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.12	0.38
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004
tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3600e-004	1.0700e-004
tblVehicleEF	LHD2	1.4510e-003	1.7220e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.9600e-004	1.0130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.12	0.38
tblVehicleEF	LHD2	0.18	0.07
tblVehicleEF	MCY	0.47	0.36
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.31	19.68
tblVehicleEF	MCY	9.52	8.39
tblVehicleEF	MCY	176.22	214.43
tblVehicleEF	MCY	46.17	60.88
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003

tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003
tblVehicleEF	MCY	1.14	1.17
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.43	2.45
tblVehicleEF	MCY	0.69	2.27
tblVehicleEF	MCY	2.08	1.84
tblVehicleEF	MCY	2.1500e-003	2.1220e-003
tblVehicleEF	MCY	6.7900e-004	6.0200e-004
tblVehicleEF	MCY	1.14	1.17
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.99	3.00
tblVehicleEF	MCY	0.69	2.27
tblVehicleEF	MCY	2.27	2.01
tblVehicleEF	MCY	0.46	0.35
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	18.54	18.88
tblVehicleEF	MCY	8.79	7.71
tblVehicleEF	MCY	176.22	212.93
tblVehicleEF	MCY	46.17	59.14
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003
tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003

tblVehicleEF	MCY	1.72	1.76
tblVehicleEF	MCY	0.76	0.79
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	2.36	2.38
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	1.87	1.64
tblVehicleEF	MCY	2.1350e-003	2.1070e-003
tblVehicleEF	MCY	6.6000e-004	5.8500e-004
tblVehicleEF	MCY	1.72	1.76
tblVehicleEF	MCY	0.76	0.79
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.03	1.78
tblVehicleEF	MCY	0.47	0.36
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	19.42	19.80
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	176.22	214.67
tblVehicleEF	MCY	46.17	61.19
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003
tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003
tblVehicleEF	MCY	1.27	1.30
tblVehicleEF	MCY	0.93	0.96

tblVehicleEF	MCY	0.76	0.78
tblVehicleEF	MCY	2.44	2.46
tblVehicleEF	MCY	0.79	2.59
tblVehicleEF	MCY	2.12	1.88
tblVehicleEF	MCY	2.1520e-003	2.1240e-003
tblVehicleEF	MCY	6.8200e-004	6.0500e-004
tblVehicleEF	MCY	1.27	1.30
tblVehicleEF	MCY	0.93	0.96
tblVehicleEF	MCY	0.76	0.78
tblVehicleEF	MCY	3.00	3.02
tblVehicleEF	MCY	0.79	2.59
tblVehicleEF	MCY	2.31	2.05
tblVehicleEF	MDV	0.01	7.1710e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.51	1.34
tblVehicleEF	MDV	3.15	3.40
tblVehicleEF	MDV	527.72	446.33
tblVehicleEF	MDV	113.45	92.14
tblVehicleEF	MDV	0.17	0.13
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.10	0.44
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MDV	5.2890e-003	4.4130e-003
tblVehicleEF	MDV	1.1900e-003	9.1200e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.10	0.44
tblVehicleEF	MDV	0.27	0.53
tblVehicleEF	MDV	0.01	7.5390e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.62	1.44
tblVehicleEF	MDV	2.73	2.93
tblVehicleEF	MDV	548.79	458.88
tblVehicleEF	MDV	113.45	91.23
tblVehicleEF	MDV	0.15	0.12
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.22	0.44

tblVehicleEF	MDV	5.5020e-003	4.5370e-003
tblVehicleEF	MDV	1.1830e-003	9.0300e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.25	0.48
tblVehicleEF	MDV	0.01	7.0490e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.47	1.30
tblVehicleEF	MDV	3.23	3.50
tblVehicleEF	MDV	519.95	441.69
tblVehicleEF	MDV	113.45	92.34
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.25	0.50
tblVehicleEF	MDV	5.2110e-003	4.3670e-003
tblVehicleEF	MDV	1.1920e-003	9.1400e-004

tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.28	0.54
tblVehicleEF	MH	0.03	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.10	0.34
tblVehicleEF	MH	6.44	0.00
tblVehicleEF	MH	1,116.28	994.19
tblVehicleEF	MH	60.49	0.00
tblVehicleEF	MH	1.62	4.22
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.09	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1800e-004	0.00

tblVehicleEF	MH	1.09	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.04	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.13	0.34
tblVehicleEF	MH	6.11	0.00
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tblVehicleEF	MH	1.50	3.99
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.63	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1300e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.07	0.00
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tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.03	3.5320e-003
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tblVehicleEF	MH	1.58	4.14
tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.22	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.01	9.3990e-003
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tblVehicleEF	MH	0.09	0.00
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tblVehicleEF	MH	0.16	0.09
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tblVehicleEF	MHD	8.3500e-004	1.2400e-004
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tblVehicleEF	MHD	7.9900e-004	3.3900e-004

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tblVehicleEF	MHD	0.45	0.07
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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	1.2870e-003	5.3100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	7.9900e-004	3.3900e-004
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tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.49	0.08
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tblVehicleEF	MHD	3.2760e-003	1.6920e-003
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tblVehicleEF	MHD	1.8220e-003	7.5400e-004
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tblVehicleEF	MHD	1.1230e-003	4.7800e-004
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tblVehicleEF	MHD	0.02	0.10
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tblVehicleEF	MHD	1.8220e-003	7.5400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	1.1230e-003	4.7800e-004
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tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.47	0.07
tblVehicleEF	MHD	0.02	5.5400e-003
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tblVehicleEF	MHD	1.3680e-003	5.5800e-004
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tblVehicleEF	MHD	0.05	0.04
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tblVehicleEF	MHD	0.15	0.16
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.49	0.08

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tblVehicleEF	OBUS	2.6400e-004	3.5380e-003
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tblVehicleEF	OBUS	8.2100e-004	2.0700e-004

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tblVehicleEF	OBUS	2.2300e-004	2.9860e-003
tblVehicleEF	OBUS	9.3090e-003	0.06
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tblVehicleEF	OBUS	2.0790e-003	2.5650e-003
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tblVehicleEF	OBUS	0.04	0.07

tblVehicleEF	OBUS	1.0980e-003	1.3340e-003
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tblVehicleEF	SBUS	0.14	0.16
tblVehicleEF	SBUS	0.03	0.13
tblVehicleEF	SBUS	0.56	0.04
tblVehicleEF	SBUS	0.01	3.2000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.9700e-004	5.3000e-005
tblVehicleEF	SBUS	4.6710e-003	1.4690e-003
tblVehicleEF	SBUS	0.05	0.01
tblVehicleEF	SBUS	1.38	0.43
tblVehicleEF	SBUS	2.1160e-003	6.2800e-004
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.13
tblVehicleEF	SBUS	0.61	0.04
tblVehicleEF	UBUS	2.19	7.32
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	10.98	27.66
tblVehicleEF	UBUS	14.08	1.81
tblVehicleEF	UBUS	1,864.44	2,044.16
tblVehicleEF	UBUS	130.39	22.76

tblVehicleEF	UBUS	6.14	4.10
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	6.9860e-003	1.9960e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	3.9610e-003	1.3650e-003
tblVehicleEF	UBUS	0.68	0.11
tblVehicleEF	UBUS	0.03	0.15
tblVehicleEF	UBUS	1.04	0.14
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5570e-003	2.2500e-004
tblVehicleEF	UBUS	6.9860e-003	1.9960e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	3.9610e-003	1.3650e-003
tblVehicleEF	UBUS	2.93	7.48
tblVehicleEF	UBUS	0.03	0.15
tblVehicleEF	UBUS	1.14	0.15
tblVehicleEF	UBUS	2.19	7.32
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	10.97	27.66
tblVehicleEF	UBUS	12.47	1.61

tblVehicleEF	UBUS	1,864.44	2,044.17
tblVehicleEF	UBUS	130.39	22.40
tblVehicleEF	UBUS	5.77	4.09
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	9.3910e-003	2.7340e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	5.3580e-003	1.8360e-003
tblVehicleEF	UBUS	0.68	0.11
tblVehicleEF	UBUS	0.03	0.13
tblVehicleEF	UBUS	0.96	0.13
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5290e-003	2.2200e-004
tblVehicleEF	UBUS	9.3910e-003	2.7340e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	5.3580e-003	1.8360e-003
tblVehicleEF	UBUS	2.94	7.48
tblVehicleEF	UBUS	0.03	0.13
tblVehicleEF	UBUS	1.05	0.14
tblVehicleEF	UBUS	2.18	7.32
tblVehicleEF	UBUS	0.08	0.03

tblVehicleEF	UBUS	10.97	27.66
tblVehicleEF	UBUS	14.36	1.85
tblVehicleEF	UBUS	1,864.44	2,044.16
tblVehicleEF	UBUS	130.39	22.82
tblVehicleEF	UBUS	6.02	4.10
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	8.0730e-003	1.9320e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2740e-003	1.3000e-003
tblVehicleEF	UBUS	0.67	0.11
tblVehicleEF	UBUS	0.04	0.18
tblVehicleEF	UBUS	1.05	0.14
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5620e-003	2.2600e-004
tblVehicleEF	UBUS	8.0730e-003	1.9320e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2740e-003	1.3000e-003
tblVehicleEF	UBUS	2.93	7.48
tblVehicleEF	UBUS	0.04	0.18
tblVehicleEF	UBUS	1.15	0.15

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	2.49	1.34
tblVehicleTrips	SU_TR	0.73	0.66
tblVehicleTrips	WD_TR	6.83	1.79

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					
2019	0.0000	0.0000	0.0000	0.0000	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					
2019	0.0000	0.0000	0.0000	0.0000	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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Energy	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Mobile	1.0971	1.1529	15.4188	0.0444	4.7884	0.0273	4.8157	1.2694	0.0252	1.2945		4,491.6371	4,491.6371	0.1232		4,494.7166
Total	**5.8952**	**1.6738**	**15.8781**	**0.0476**	**4.7884**	**0.0670**	**4.8554**	**1.2694**	**0.0648**	**1.3342**		**5,116.5944**	**5,116.5944**	**0.1353**	**0.0115**	**5,123.3906**

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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Energy	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Mobile	1.0971	1.1529	15.4188	0.0444	4.7884	0.0273	4.8157	1.2694	0.0252	1.2945		4,491.6371	4,491.6371	0.1232		4,494.7166
Total	**5.8952**	**1.6738**	**15.8781**	**0.0476**	**4.7884**	**0.0670**	**4.8554**	**1.2694**	**0.0648**	**1.3342**		**5,116.5944**	**5,116.5944**	**0.1353**	**0.0115**	**5,123.3906**

	ROG	NOx	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	11/14/2019	11/14/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

3.2 Demolition - 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	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 Demolition - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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	1.0971	1.1529	15.4188	0.0444	4.7884	0.0273	4.8157	1.2694	0.0252	1.2945		4,491.6371	4,491.6371	0.1232		4,494.7166
Unmitigated	1.0971	1.1529	15.4188	0.0444	4.7884	0.0273	4.8157	1.2694	0.0252	1.2945		4,491.6371	4,491.6371	0.1232		4,494.7166

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	379.69	284.24	140.00	2,004,967	2,004,967
Total	379.69	284.24	140.00	2,004,967	2,004,967

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
Industrial Park	16.60	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
Industrial Park	0.595976	0.047720	0.227789	0.128515	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	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
NaturalGas Unmitigated	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244

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					
Industrial Park	5311.74	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Total		**0.0573**	**0.5208**	**0.4374**	**3.1200e-003**		**0.0396**	**0.0396**		**0.0396**	**0.0396**		**624.9109**	**624.9109**	**0.0120**	**0.0115**	**628.6244**

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					
Industrial Park	5.31174	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Total		**0.0573**	**0.5208**	**0.4374**	**3.1200e-003**		**0.0396**	**0.0396**		**0.0396**	**0.0396**		**624.9109**	**624.9109**	**0.0120**	**0.0115**	**628.6244**

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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Unmitigated	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496

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	0.5387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Total	**4.7408**	**2.0000e-004**	**0.0219**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0464**	**0.0464**	**1.3000e-004**		**0.0496**

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	0.5387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Total	**4.7408**	**2.0000e-004**	**0.0219**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0464**	**0.0464**	**1.3000e-004**		**0.0496**

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

The Bowery Mixed-Use Project (Existing Operations - Trucks)

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	212.12	1000sqft	4.87	212,121.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**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

The Bowery Mixed-Use Project (Existing Operations - Trucks) - Orange County, Summer

Project Characteristics -

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the Trip Generation

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the TIA.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.02	0.84
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.02	0.09
tblFleetMix	LHD2	5.7970e-003	0.00
tblFleetMix	MCY	4.8300e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0410e-003	0.00
tblFleetMix	MHD	0.02	0.07
tblFleetMix	OBUS	1.6370e-003	0.00
tblFleetMix	SBUS	5.8300e-004	0.00
tblFleetMix	UBUS	1.6330e-003	0.00
tblLandUse	LandUseSquareFeet	212,120.00	212,121.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.11	1.0000e-006
tblVehicleEF	HHD	2.83	4.80
tblVehicleEF	HHD	1.29	1.00
tblVehicleEF	HHD	4.31	0.01
tblVehicleEF	HHD	4,148.19	1,017.94
tblVehicleEF	HHD	1,727.41	1,575.45
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	22.81	6.13
tblVehicleEF	HHD	4.81	4.97
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.7720e-003
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	1.9000e-004	1.0000e-005
tblVehicleEF	HHD	1.6300e-004	1.9000e-005
tblVehicleEF	HHD	8.1630e-003	1.2480e-003
tblVehicleEF	HHD	0.69	0.42

tblVehicleEF	HHD	1.1700e-004	1.3000e-005
tblVehicleEF	HHD	0.15	0.18
tblVehicleEF	HHD	7.1800e-004	4.5010e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.04	9.3380e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.0200e-004	2.0000e-006
tblVehicleEF	HHD	1.6300e-004	1.9000e-005
tblVehicleEF	HHD	8.1630e-003	1.2480e-003
tblVehicleEF	HHD	0.82	0.49
tblVehicleEF	HHD	1.1700e-004	1.3000e-005
tblVehicleEF	HHD	0.33	0.34
tblVehicleEF	HHD	7.1800e-004	4.5010e-003
tblVehicleEF	HHD	0.14	5.0000e-006
tblVehicleEF	HHD	0.70	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.11	1.0000e-006
tblVehicleEF	HHD	2.06	4.63
tblVehicleEF	HHD	1.30	1.00
tblVehicleEF	HHD	4.11	0.01
tblVehicleEF	HHD	4,391.71	1,022.60
tblVehicleEF	HHD	1,727.41	1,575.45
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	23.54	6.05
tblVehicleEF	HHD	4.56	4.70
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.7720e-003
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tblVehicleEF	HHD	2.3600e-004	2.8000e-005
tblVehicleEF	HHD	8.1860e-003	1.2280e-003
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tblVehicleEF	HHD	1.7000e-004	1.9000e-005
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tblVehicleEF	HHD	7.0300e-004	4.4500e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.04	9.3800e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.9900e-004	2.0000e-006
tblVehicleEF	HHD	2.3600e-004	2.8000e-005
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tblVehicleEF	HHD	1.7000e-004	1.9000e-005
tblVehicleEF	HHD	0.33	0.34
tblVehicleEF	HHD	7.0300e-004	4.4500e-003
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tblVehicleEF	HHD	0.80	0.02
tblVehicleEF	HHD	0.16	8.0130e-003

tblVehicleEF	HHD	0.11	1.0000e-006
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tblVehicleEF	HHD	1.29	0.68
tblVehicleEF	HHD	4.34	0.01
tblVehicleEF	HHD	3,811.92	982.27
tblVehicleEF	HHD	1,727.41	1,488.13
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	21.81	6.05
tblVehicleEF	HHD	4.73	4.79
tblVehicleEF	HHD	0.04	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.08
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tblVehicleEF	HHD	0.04	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.5470e-003
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	1.9000e-004	1.0000e-005
tblVehicleEF	HHD	1.6800e-004	2.1000e-005
tblVehicleEF	HHD	9.6220e-003	1.6080e-003
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tblVehicleEF	HHD	1.2100e-004	1.4000e-005
tblVehicleEF	HHD	0.15	0.17
tblVehicleEF	HHD	7.7000e-004	4.7670e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.03	9.2800e-003

tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.0300e-004	2.0000e-006
tblVehicleEF	HHD	1.6800e-004	2.1000e-005
tblVehicleEF	HHD	9.6220e-003	1.6080e-003
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tblVehicleEF	HHD	1.2100e-004	1.4000e-005
tblVehicleEF	HHD	0.33	0.19
tblVehicleEF	HHD	7.7000e-004	4.7670e-003
tblVehicleEF	HHD	0.15	5.0000e-006
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tblVehicleEF	LDA	62.52	57.40
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tblVehicleEF	LDA	2.2880e-003	2.0630e-003
tblVehicleEF	LDA	1.8010e-003	1.6550e-003
tblVehicleEF	LDA	2.1040e-003	1.8970e-003
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tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.28
tblVehicleEF	LDA	2.8600e-003	2.7800e-003

tblVehicleEF	LDA	6.4900e-004	5.6800e-004
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tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.10	0.31
tblVehicleEF	LDA	5.6080e-003	3.8080e-003
tblVehicleEF	LDA	6.1910e-003	0.05
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tblVehicleEF	LDA	297.57	292.58
tblVehicleEF	LDA	62.52	56.81
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	1.9530e-003	1.7960e-003
tblVehicleEF	LDA	2.2880e-003	2.0630e-003
tblVehicleEF	LDA	1.8010e-003	1.6550e-003
tblVehicleEF	LDA	2.1040e-003	1.8970e-003
tblVehicleEF	LDA	0.06	0.09
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.05	0.08
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.9810e-003	2.8940e-003
tblVehicleEF	LDA	6.4500e-004	5.6200e-004
tblVehicleEF	LDA	0.06	0.09

tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.05	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.09	0.28
tblVehicleEF	LDA	5.2140e-003	3.5120e-003
tblVehicleEF	LDA	7.0400e-003	0.06
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tblVehicleEF	LDA	281.07	276.76
tblVehicleEF	LDA	62.52	57.53
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.9530e-003	1.7960e-003
tblVehicleEF	LDA	2.2880e-003	2.0630e-003
tblVehicleEF	LDA	1.8010e-003	1.6550e-003
tblVehicleEF	LDA	2.1040e-003	1.8970e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.26
tblVehicleEF	LDA	0.09	0.29
tblVehicleEF	LDA	2.8150e-003	2.7380e-003
tblVehicleEF	LDA	6.4900e-004	5.6900e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.26
tblVehicleEF	LDA	0.10	0.31
tblVehicleEF	LDT1	0.01	8.2280e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.43	1.58
tblVehicleEF	LDT1	3.36	2.49
tblVehicleEF	LDT1	342.68	329.39
tblVehicleEF	LDT1	75.08	68.62
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.7770e-003	2.6580e-003
tblVehicleEF	LDT1	3.5610e-003	3.0010e-003
tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.29	0.23
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.18	0.77
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT1	3.4440e-003	3.2600e-003
tblVehicleEF	LDT1	8.1000e-004	6.7900e-004
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tblVehicleEF	LDT1	0.29	0.23
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.77

tblVehicleEF	LDT1	0.26	0.49
tblVehicleEF	LDT1	0.01	8.6770e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.70
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tblVehicleEF	LDT1	75.08	67.90
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tblVehicleEF	LDT1	2.7770e-003	2.6580e-003
tblVehicleEF	LDT1	3.5610e-003	3.0010e-003
tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.20	0.22
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.16	0.71
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.5840e-003	3.3760e-003
tblVehicleEF	LDT1	8.0200e-004	6.7200e-004
tblVehicleEF	LDT1	0.20	0.22
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.16	0.71
tblVehicleEF	LDT1	0.23	0.44
tblVehicleEF	LDT1	0.01	8.0820e-003

tblVehicleEF	LDT1	0.02	0.09
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tblVehicleEF	LDT1	75.08	68.77
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.7770e-003	2.6580e-003
tblVehicleEF	LDT1	3.5610e-003	3.0010e-003
tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.21	0.92
tblVehicleEF	LDT1	0.24	0.46
tblVehicleEF	LDT1	3.3930e-003	3.2160e-003
tblVehicleEF	LDT1	8.1200e-004	6.8100e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.21	0.92
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	6.8790e-003	5.1110e-003
tblVehicleEF	LDT2	8.6540e-003	0.08
tblVehicleEF	LDT2	0.85	1.09

tblVehicleEF	LDT2	1.77	2.88
tblVehicleEF	LDT2	393.42	364.39
tblVehicleEF	LDT2	86.53	76.12
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LDT2	3.9410e-003	3.6050e-003
tblVehicleEF	LDT2	8.9500e-004	7.5300e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.13	0.41
tblVehicleEF	LDT2	7.2530e-003	5.4140e-003
tblVehicleEF	LDT2	7.7840e-003	0.07
tblVehicleEF	LDT2	0.93	1.18
tblVehicleEF	LDT2	1.53	2.48
tblVehicleEF	LDT2	409.58	376.30

tblVehicleEF	LDT2	86.53	75.36
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	4.1030e-003	3.7230e-003
tblVehicleEF	LDT2	8.9100e-004	7.4600e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.7510e-003	5.0130e-003
tblVehicleEF	LDT2	8.8330e-003	0.08
tblVehicleEF	LDT2	0.83	1.05
tblVehicleEF	LDT2	1.82	2.97
tblVehicleEF	LDT2	387.46	359.99
tblVehicleEF	LDT2	86.53	76.29
tblVehicleEF	LDT2	0.08	0.09

tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	3.8810e-003	3.5620e-003
tblVehicleEF	LDT2	8.9600e-004	7.5500e-004
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.13	0.42
tblVehicleEF	LHD1	6.3610e-003	6.2140e-003
tblVehicleEF	LHD1	0.01	6.1820e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.94	0.73
tblVehicleEF	LHD1	2.91	1.20
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.04
tblVehicleEF	LHD1	35.31	13.21

tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.47	1.00
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003
tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	3.0060e-003	2.5300e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8490e-003	1.5400e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.29	0.52
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005
tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0800e-004	1.3100e-004
tblVehicleEF	LHD1	3.0060e-003	2.5300e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.8490e-003	1.5400e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.29	0.52
tblVehicleEF	LHD1	0.34	0.10

tblVehicleEF	LHD1	6.3610e-003	6.2260e-003
tblVehicleEF	LHD1	0.01	6.2770e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.95	0.74
tblVehicleEF	LHD1	2.79	1.15
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.05
tblVehicleEF	LHD1	35.31	13.12
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.38	0.94
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003
tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	4.2030e-003	3.5460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5350e-003	2.1240e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.28	0.51
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005

tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0600e-004	1.3000e-004
tblVehicleEF	LHD1	4.2030e-003	3.5460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.1240e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.28	0.51
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	6.3610e-003	6.2110e-003
tblVehicleEF	LHD1	0.01	6.1560e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.94	0.73
tblVehicleEF	LHD1	2.93	1.20
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.03
tblVehicleEF	LHD1	35.31	13.22
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.44	0.98
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003

tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	3.1710e-003	2.6840e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8860e-003	1.5770e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.57
tblVehicleEF	LHD1	0.31	0.10
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005
tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0900e-004	1.3100e-004
tblVehicleEF	LHD1	3.1710e-003	2.6840e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.8860e-003	1.5770e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.57
tblVehicleEF	LHD1	0.34	0.10
tblVehicleEF	LHD2	4.8210e-003	4.6270e-003
tblVehicleEF	LHD2	5.5970e-003	4.4370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.51
tblVehicleEF	LHD2	1.65	0.86
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.11
tblVehicleEF	LHD2	30.51	10.81

tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.15	1.18
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.3970e-003	1.6410e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9000e-004	1.0050e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004
tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3600e-004	1.0700e-004
tblVehicleEF	LHD2	1.3970e-003	1.6410e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.9000e-004	1.0050e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.18	0.07

tblVehicleEF	LHD2	4.8210e-003	4.6370e-003
tblVehicleEF	LHD2	5.6690e-003	4.4870e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.51
tblVehicleEF	LHD2	1.58	0.82
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.12
tblVehicleEF	LHD2	30.51	10.75
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.12
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.9580e-003	2.3000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2220e-003	1.3860e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.16	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004

tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3400e-004	1.0600e-004
tblVehicleEF	LHD2	1.9580e-003	2.3000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2220e-003	1.3860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.17	0.07
tblVehicleEF	LHD2	4.8210e-003	4.6250e-003
tblVehicleEF	LHD2	5.5770e-003	4.4240e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.50
tblVehicleEF	LHD2	1.66	0.86
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.11
tblVehicleEF	LHD2	30.51	10.82
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.13	1.16
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.4510e-003	1.7220e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	1.0130e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.12	0.38
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004
tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3600e-004	1.0700e-004
tblVehicleEF	LHD2	1.4510e-003	1.7220e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.9600e-004	1.0130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.12	0.38
tblVehicleEF	LHD2	0.18	0.07
tblVehicleEF	MCY	0.47	0.36
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.31	19.68
tblVehicleEF	MCY	9.52	8.39
tblVehicleEF	MCY	176.22	214.43
tblVehicleEF	MCY	46.17	60.88
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003

tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003
tblVehicleEF	MCY	1.14	1.17
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.43	2.45
tblVehicleEF	MCY	0.69	2.27
tblVehicleEF	MCY	2.08	1.84
tblVehicleEF	MCY	2.1500e-003	2.1220e-003
tblVehicleEF	MCY	6.7900e-004	6.0200e-004
tblVehicleEF	MCY	1.14	1.17
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.99	3.00
tblVehicleEF	MCY	0.69	2.27
tblVehicleEF	MCY	2.27	2.01
tblVehicleEF	MCY	0.46	0.35
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	18.54	18.88
tblVehicleEF	MCY	8.79	7.71
tblVehicleEF	MCY	176.22	212.93
tblVehicleEF	MCY	46.17	59.14
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003
tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003

tblVehicleEF	MCY	1.72	1.76
tblVehicleEF	MCY	0.76	0.79
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	2.36	2.38
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	1.87	1.64
tblVehicleEF	MCY	2.1350e-003	2.1070e-003
tblVehicleEF	MCY	6.6000e-004	5.8500e-004
tblVehicleEF	MCY	1.72	1.76
tblVehicleEF	MCY	0.76	0.79
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.03	1.78
tblVehicleEF	MCY	0.47	0.36
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	19.42	19.80
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	176.22	214.67
tblVehicleEF	MCY	46.17	61.19
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003
tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003
tblVehicleEF	MCY	1.27	1.30
tblVehicleEF	MCY	0.93	0.96

tblVehicleEF	MCY	0.76	0.78
tblVehicleEF	MCY	2.44	2.46
tblVehicleEF	MCY	0.79	2.59
tblVehicleEF	MCY	2.12	1.88
tblVehicleEF	MCY	2.1520e-003	2.1240e-003
tblVehicleEF	MCY	6.8200e-004	6.0500e-004
tblVehicleEF	MCY	1.27	1.30
tblVehicleEF	MCY	0.93	0.96
tblVehicleEF	MCY	0.76	0.78
tblVehicleEF	MCY	3.00	3.02
tblVehicleEF	MCY	0.79	2.59
tblVehicleEF	MCY	2.31	2.05
tblVehicleEF	MDV	0.01	7.1710e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.51	1.34
tblVehicleEF	MDV	3.15	3.40
tblVehicleEF	MDV	527.72	446.33
tblVehicleEF	MDV	113.45	92.14
tblVehicleEF	MDV	0.17	0.13
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.10	0.44
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MDV	5.2890e-003	4.4130e-003
tblVehicleEF	MDV	1.1900e-003	9.1200e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.10	0.44
tblVehicleEF	MDV	0.27	0.53
tblVehicleEF	MDV	0.01	7.5390e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.62	1.44
tblVehicleEF	MDV	2.73	2.93
tblVehicleEF	MDV	548.79	458.88
tblVehicleEF	MDV	113.45	91.23
tblVehicleEF	MDV	0.15	0.12
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.22	0.44

tblVehicleEF	MDV	5.5020e-003	4.5370e-003
tblVehicleEF	MDV	1.1830e-003	9.0300e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.25	0.48
tblVehicleEF	MDV	0.01	7.0490e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.47	1.30
tblVehicleEF	MDV	3.23	3.50
tblVehicleEF	MDV	519.95	441.69
tblVehicleEF	MDV	113.45	92.34
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.25	0.50
tblVehicleEF	MDV	5.2110e-003	4.3670e-003
tblVehicleEF	MDV	1.1920e-003	9.1400e-004

tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.28	0.54
tblVehicleEF	MH	0.03	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.10	0.34
tblVehicleEF	MH	6.44	0.00
tblVehicleEF	MH	1,116.28	994.19
tblVehicleEF	MH	60.49	0.00
tblVehicleEF	MH	1.62	4.22
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.09	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1800e-004	0.00

tblVehicleEF	MH	1.09	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.04	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.13	0.34
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,116.28	994.19
tblVehicleEF	MH	60.49	0.00
tblVehicleEF	MH	1.50	3.99
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.63	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1300e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.63	0.00
tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.03	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.09	0.34
tblVehicleEF	MH	6.48	0.00
tblVehicleEF	MH	1,116.28	994.19
tblVehicleEF	MH	60.49	0.00
tblVehicleEF	MH	1.58	4.14
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.22	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1900e-004	0.00

tblVehicleEF	MH	1.22	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.44	0.00
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tblVehicleEF	MHD	9.3840e-003	8.0870e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.67	0.72
tblVehicleEF	MHD	7.25	1.47
tblVehicleEF	MHD	143.27	58.14
tblVehicleEF	MHD	1,150.33	1,132.84
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tblVehicleEF	MHD	2.51	2.53
tblVehicleEF	MHD	4.0620e-003	2.0960e-003
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tblVehicleEF	MHD	9.0700e-004	1.3500e-004
tblVehicleEF	MHD	3.8860e-003	2.0050e-003
tblVehicleEF	MHD	0.07	0.07
tblVehicleEF	MHD	8.3500e-004	1.2400e-004
tblVehicleEF	MHD	1.2870e-003	5.3100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.9900e-004	3.3900e-004

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tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.45	0.07
tblVehicleEF	MHD	1.3790e-003	5.5400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.5400e-004	1.3500e-004
tblVehicleEF	MHD	1.2870e-003	5.3100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	7.9900e-004	3.3900e-004
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tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.49	0.08
tblVehicleEF	MHD	0.02	4.8610e-003
tblVehicleEF	MHD	9.4650e-003	8.1370e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.35	0.31
tblVehicleEF	MHD	0.67	0.73
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tblVehicleEF	MHD	2.37	2.39
tblVehicleEF	MHD	3.4240e-003	1.7690e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.0700e-004	1.3500e-004

tblVehicleEF	MHD	3.2760e-003	1.6920e-003
tblVehicleEF	MHD	0.07	0.07
tblVehicleEF	MHD	8.3500e-004	1.2400e-004
tblVehicleEF	MHD	1.8220e-003	7.5400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.1230e-003	4.7800e-004
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	1.4590e-003	5.6700e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4800e-004	1.3400e-004
tblVehicleEF	MHD	1.8220e-003	7.5400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	1.1230e-003	4.7800e-004
tblVehicleEF	MHD	0.15	0.16
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.47	0.07
tblVehicleEF	MHD	0.02	5.5400e-003
tblVehicleEF	MHD	9.3600e-003	8.0700e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.66	0.52
tblVehicleEF	MHD	0.67	0.72
tblVehicleEF	MHD	7.32	1.48
tblVehicleEF	MHD	131.55	56.18

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tblVehicleEF	MHD	2.46	2.48
tblVehicleEF	MHD	4.9420e-003	2.5480e-003
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tblVehicleEF	MHD	4.7280e-003	2.4380e-003
tblVehicleEF	MHD	0.07	0.07
tblVehicleEF	MHD	8.3500e-004	1.2400e-004
tblVehicleEF	MHD	1.3680e-003	5.5800e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.2500e-004	3.4600e-004
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.45	0.07
tblVehicleEF	MHD	1.2690e-003	5.3500e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.5500e-004	1.3600e-004
tblVehicleEF	MHD	1.3680e-003	5.5800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	8.2500e-004	3.4600e-004
tblVehicleEF	MHD	0.15	0.16
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.49	0.08

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tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	8.4600e-004	2.0600e-004
tblVehicleEF	OBUS	2.6400e-004	3.5380e-003
tblVehicleEF	OBUS	9.3090e-003	0.06
tblVehicleEF	OBUS	7.8000e-004	1.9000e-004
tblVehicleEF	OBUS	1.5110e-003	1.8740e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.9200e-004	9.7100e-004
tblVehicleEF	OBUS	0.07	0.16
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2100e-004	2.0700e-004

tblVehicleEF	OBUS	1.5110e-003	1.8740e-003
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tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	7.9200e-004	9.7100e-004
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tblVehicleEF	OBUS	0.44	0.14
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tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	1.83	2.46
tblVehicleEF	OBUS	2.3300e-004	3.1210e-003
tblVehicleEF	OBUS	9.7470e-003	0.06
tblVehicleEF	OBUS	8.4600e-004	2.0600e-004
tblVehicleEF	OBUS	2.2300e-004	2.9860e-003
tblVehicleEF	OBUS	9.3090e-003	0.06
tblVehicleEF	OBUS	7.8000e-004	1.9000e-004
tblVehicleEF	OBUS	2.0790e-003	2.5650e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07

tblVehicleEF	OBUS	1.0980e-003	1.3340e-003
tblVehicleEF	OBUS	0.07	0.16
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.39	0.12
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tblVehicleEF	OBUS	2.0790e-003	2.5650e-003
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tblVehicleEF	OBUS	1.0980e-003	1.3340e-003
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tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.4080e-003
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tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.61
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tblVehicleEF	OBUS	1,239.45	1,470.77
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tblVehicleEF	OBUS	3.3600e-004	4.4940e-003
tblVehicleEF	OBUS	9.7470e-003	0.06

tblVehicleEF	OBUS	8.4600e-004	2.0600e-004
tblVehicleEF	OBUS	3.2100e-004	4.3000e-003
tblVehicleEF	OBUS	9.3090e-003	0.06
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tblVehicleEF	OBUS	1.5690e-003	1.9560e-003
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tblVehicleEF	SBUS	0.01	7.5760e-003
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tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	9.3700e-004	6.7000e-005
tblVehicleEF	SBUS	0.01	7.2490e-003
tblVehicleEF	SBUS	2.6990e-003	2.6820e-003
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tblVehicleEF	SBUS	4.4090e-003	1.3490e-003
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tblVehicleEF	SBUS	0.55	0.04
tblVehicleEF	SBUS	0.01	3.3630e-003
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tblVehicleEF	SBUS	2.1150e-003	6.1100e-004

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tblVehicleEF	SBUS	9.3700e-004	6.7000e-005
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tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	6.9860e-003	1.9960e-003
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tblVehicleEF	UBUS	3.9610e-003	1.3650e-003
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tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
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tblVehicleEF	UBUS	3.9610e-003	1.3650e-003
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tblVehicleEF	UBUS	0.03	0.15
tblVehicleEF	UBUS	1.14	0.15
tblVehicleEF	UBUS	2.19	7.32
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tblVehicleEF	UBUS	10.97	27.66
tblVehicleEF	UBUS	12.47	1.61

tblVehicleEF	UBUS	1,864.44	2,044.17
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tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	9.3910e-003	2.7340e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	5.3580e-003	1.8360e-003
tblVehicleEF	UBUS	0.68	0.11
tblVehicleEF	UBUS	0.03	0.13
tblVehicleEF	UBUS	0.96	0.13
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5290e-003	2.2200e-004
tblVehicleEF	UBUS	9.3910e-003	2.7340e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	5.3580e-003	1.8360e-003
tblVehicleEF	UBUS	2.94	7.48
tblVehicleEF	UBUS	0.03	0.13
tblVehicleEF	UBUS	1.05	0.14
tblVehicleEF	UBUS	2.18	7.32
tblVehicleEF	UBUS	0.08	0.03

tblVehicleEF	UBUS	10.97	27.66
tblVehicleEF	UBUS	14.36	1.85
tblVehicleEF	UBUS	1,864.44	2,044.16
tblVehicleEF	UBUS	130.39	22.82
tblVehicleEF	UBUS	6.02	4.10
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	8.0730e-003	1.9320e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2740e-003	1.3000e-003
tblVehicleEF	UBUS	0.67	0.11
tblVehicleEF	UBUS	0.04	0.18
tblVehicleEF	UBUS	1.05	0.14
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5620e-003	2.2600e-004
tblVehicleEF	UBUS	8.0730e-003	1.9320e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2740e-003	1.3000e-003
tblVehicleEF	UBUS	2.93	7.48
tblVehicleEF	UBUS	0.04	0.18
tblVehicleEF	UBUS	1.15	0.15

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	2.49	1.20
tblVehicleTrips	SU_TR	0.73	0.59
tblVehicleTrips	WD_TR	6.83	1.59

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					
2019	0.0000	0.0000	0.0000	0.0000	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					
2019	0.0000	0.0000	0.0000	0.0000	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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Energy	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Mobile	5.2754	141.9743	31.6843	0.3987	11.8276	2.1223	13.9499	3.2700	2.0304	5.3004		44,312.2675	44,312.2675	3.5542		44,401.1223
Total	**10.0734**	**142.4953**	**32.1436**	**0.4018**	**11.8276**	**2.1620**	**13.9896**	**3.2700**	**2.0701**	**5.3400**		**44,937.2247**	**44,937.2247**	**3.5663**	**0.0115**	**45,029.7963**

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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Energy	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Mobile	5.2754	141.9743	31.6843	0.3987	11.8276	2.1223	13.9499	3.2700	2.0304	5.3004		44,312.2675	44,312.2675	3.5542		44,401.1223
Total	**10.0734**	**142.4953**	**32.1436**	**0.4018**	**11.8276**	**2.1620**	**13.9896**	**3.2700**	**2.0701**	**5.3400**		**44,937.2247**	**44,937.2247**	**3.5663**	**0.0115**	**45,029.7963**

	ROG	NOx	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	11/14/2019	11/14/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

3.2 Demolition - 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	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 Demolition - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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	5.2754	141.9743	31.6843	0.3987	11.8276	2.1223	13.9499	3.2700	2.0304	5.3004		44,312.2675	44,312.2675	3.5542		44,401.1223
Unmitigated	5.2754	141.9743	31.6843	0.3987	11.8276	2.1223	13.9499	3.2700	2.0304	5.3004		44,312.2675	44,312.2675	3.5542		44,401.1223

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	337.27	254.54	125.15	4,297,382	4,297,382
Total	337.27	254.54	125.15	4,297,382	4,297,382

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
Industrial Park	40.00	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
Industrial Park	0.000000	0.000000	0.000000	0.000000	0.085799	0.000000	0.071006	0.843195	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	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
NaturalGas Unmitigated	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244

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					
Industrial Park	5311.74	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Total		**0.0573**	**0.5208**	**0.4374**	**3.1200e-003**		**0.0396**	**0.0396**		**0.0396**	**0.0396**		**624.9109**	**624.9109**	**0.0120**	**0.0115**	**628.6244**

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					
Industrial Park	5.31174	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Total		**0.0573**	**0.5208**	**0.4374**	**3.1200e-003**		**0.0396**	**0.0396**		**0.0396**	**0.0396**		**624.9109**	**624.9109**	**0.0120**	**0.0115**	**628.6244**

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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Unmitigated	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496

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	0.5387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Total	**4.7408**	**2.0000e-004**	**0.0219**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0464**	**0.0464**	**1.3000e-004**		**0.0496**

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	0.5387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Total	**4.7408**	**2.0000e-004**	**0.0219**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0464**	**0.0464**	**1.3000e-004**		**0.0496**

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

The Bowery Mixed-Use Project (Existing Operations - Trucks)

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	212.12	1000sqft	4.87	212,121.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**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

The Bowery Mixed-Use Project (Existing Operations - Trucks) - Orange County, Winter

Project Characteristics -

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the Trip Generation

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the TIA.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFleetMix	HHD	0.02	0.84
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.02	0.09
tblFleetMix	LHD2	5.7970e-003	0.00
tblFleetMix	MCY	4.8300e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0410e-003	0.00
tblFleetMix	MHD	0.02	0.07
tblFleetMix	OBUS	1.6370e-003	0.00
tblFleetMix	SBUS	5.8300e-004	0.00
tblFleetMix	UBUS	1.6330e-003	0.00
tblLandUse	LandUseSquareFeet	212,120.00	212,121.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleEF	HHD	0.75	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.11	1.0000e-006
tblVehicleEF	HHD	2.83	4.80
tblVehicleEF	HHD	1.29	1.00
tblVehicleEF	HHD	4.31	0.01
tblVehicleEF	HHD	4,148.19	1,017.94
tblVehicleEF	HHD	1,727.41	1,575.45
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	22.81	6.13
tblVehicleEF	HHD	4.81	4.97
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.7720e-003
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	1.9000e-004	1.0000e-005
tblVehicleEF	HHD	1.6300e-004	1.9000e-005
tblVehicleEF	HHD	8.1630e-003	1.2480e-003
tblVehicleEF	HHD	0.69	0.42

tblVehicleEF	HHD	1.1700e-004	1.3000e-005
tblVehicleEF	HHD	0.15	0.18
tblVehicleEF	HHD	7.1800e-004	4.5010e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.04	9.3380e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.0200e-004	2.0000e-006
tblVehicleEF	HHD	1.6300e-004	1.9000e-005
tblVehicleEF	HHD	8.1630e-003	1.2480e-003
tblVehicleEF	HHD	0.82	0.49
tblVehicleEF	HHD	1.1700e-004	1.3000e-005
tblVehicleEF	HHD	0.33	0.34
tblVehicleEF	HHD	7.1800e-004	4.5010e-003
tblVehicleEF	HHD	0.14	5.0000e-006
tblVehicleEF	HHD	0.70	0.03
tblVehicleEF	HHD	0.16	0.14
tblVehicleEF	HHD	0.11	1.0000e-006
tblVehicleEF	HHD	2.06	4.63
tblVehicleEF	HHD	1.30	1.00
tblVehicleEF	HHD	4.11	0.01
tblVehicleEF	HHD	4,391.71	1,022.60
tblVehicleEF	HHD	1,727.41	1,575.45
tblVehicleEF	HHD	13.07	0.20
tblVehicleEF	HHD	23.54	6.05
tblVehicleEF	HHD	4.56	4.70
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06

tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.7720e-003
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	1.9000e-004	1.0000e-005
tblVehicleEF	HHD	2.3600e-004	2.8000e-005
tblVehicleEF	HHD	8.1860e-003	1.2280e-003
tblVehicleEF	HHD	0.65	0.43
tblVehicleEF	HHD	1.7000e-004	1.9000e-005
tblVehicleEF	HHD	0.15	0.18
tblVehicleEF	HHD	7.0300e-004	4.4500e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.04	9.3800e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.9900e-004	2.0000e-006
tblVehicleEF	HHD	2.3600e-004	2.8000e-005
tblVehicleEF	HHD	8.1860e-003	1.2280e-003
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tblVehicleEF	HHD	1.7000e-004	1.9000e-005
tblVehicleEF	HHD	0.33	0.34
tblVehicleEF	HHD	7.0300e-004	4.4500e-003
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tblVehicleEF	HHD	0.80	0.02
tblVehicleEF	HHD	0.16	8.0130e-003

tblVehicleEF	HHD	0.11	1.0000e-006
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tblVehicleEF	HHD	1.29	0.68
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tblVehicleEF	HHD	3,811.92	982.27
tblVehicleEF	HHD	1,727.41	1,488.13
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tblVehicleEF	HHD	4.73	4.79
tblVehicleEF	HHD	0.04	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	2.0400e-004	1.0000e-005
tblVehicleEF	HHD	0.04	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6810e-003	8.5470e-003
tblVehicleEF	HHD	0.02	0.07
tblVehicleEF	HHD	1.9000e-004	1.0000e-005
tblVehicleEF	HHD	1.6800e-004	2.1000e-005
tblVehicleEF	HHD	9.6220e-003	1.6080e-003
tblVehicleEF	HHD	0.74	0.41
tblVehicleEF	HHD	1.2100e-004	1.4000e-005
tblVehicleEF	HHD	0.15	0.17
tblVehicleEF	HHD	7.7000e-004	4.7670e-003
tblVehicleEF	HHD	0.13	4.0000e-006
tblVehicleEF	HHD	0.03	9.2800e-003

tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.0300e-004	2.0000e-006
tblVehicleEF	HHD	1.6800e-004	2.1000e-005
tblVehicleEF	HHD	9.6220e-003	1.6080e-003
tblVehicleEF	HHD	0.88	0.47
tblVehicleEF	HHD	1.2100e-004	1.4000e-005
tblVehicleEF	HHD	0.33	0.19
tblVehicleEF	HHD	7.7000e-004	4.7670e-003
tblVehicleEF	HHD	0.15	5.0000e-006
tblVehicleEF	LDA	5.3160e-003	3.5840e-003
tblVehicleEF	LDA	6.8950e-003	0.06
tblVehicleEF	LDA	0.67	0.82
tblVehicleEF	LDA	1.37	2.24
tblVehicleEF	LDA	285.52	281.02
tblVehicleEF	LDA	62.52	57.40
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.9530e-003	1.7960e-003
tblVehicleEF	LDA	2.2880e-003	2.0630e-003
tblVehicleEF	LDA	1.8010e-003	1.6550e-003
tblVehicleEF	LDA	2.1040e-003	1.8970e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.28
tblVehicleEF	LDA	2.8600e-003	2.7800e-003

tblVehicleEF	LDA	6.4900e-004	5.6800e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.10	0.31
tblVehicleEF	LDA	5.6080e-003	3.8080e-003
tblVehicleEF	LDA	6.1910e-003	0.05
tblVehicleEF	LDA	0.73	0.89
tblVehicleEF	LDA	1.18	1.93
tblVehicleEF	LDA	297.57	292.58
tblVehicleEF	LDA	62.52	56.81
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	1.9530e-003	1.7960e-003
tblVehicleEF	LDA	2.2880e-003	2.0630e-003
tblVehicleEF	LDA	1.8010e-003	1.6550e-003
tblVehicleEF	LDA	2.1040e-003	1.8970e-003
tblVehicleEF	LDA	0.06	0.09
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.05	0.08
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	2.9810e-003	2.8940e-003
tblVehicleEF	LDA	6.4500e-004	5.6200e-004
tblVehicleEF	LDA	0.06	0.09

tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.05	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.09	0.28
tblVehicleEF	LDA	5.2140e-003	3.5120e-003
tblVehicleEF	LDA	7.0400e-003	0.06
tblVehicleEF	LDA	0.65	0.79
tblVehicleEF	LDA	1.41	2.31
tblVehicleEF	LDA	281.07	276.76
tblVehicleEF	LDA	62.52	57.53
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	1.9530e-003	1.7960e-003
tblVehicleEF	LDA	2.2880e-003	2.0630e-003
tblVehicleEF	LDA	1.8010e-003	1.6550e-003
tblVehicleEF	LDA	2.1040e-003	1.8970e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.05	0.26
tblVehicleEF	LDA	0.09	0.29
tblVehicleEF	LDA	2.8150e-003	2.7380e-003
tblVehicleEF	LDA	6.4900e-004	5.6900e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.26
tblVehicleEF	LDA	0.10	0.31
tblVehicleEF	LDT1	0.01	8.2280e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.43	1.58
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tblVehicleEF	LDT1	342.68	329.39
tblVehicleEF	LDT1	75.08	68.62
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.7770e-003	2.6580e-003
tblVehicleEF	LDT1	3.5610e-003	3.0010e-003
tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.29	0.23
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.18	0.77
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT1	3.4440e-003	3.2600e-003
tblVehicleEF	LDT1	8.1000e-004	6.7900e-004
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.29	0.23
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.77

tblVehicleEF	LDT1	0.26	0.49
tblVehicleEF	LDT1	0.01	8.6770e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.54	1.70
tblVehicleEF	LDT1	2.89	2.14
tblVehicleEF	LDT1	356.48	341.21
tblVehicleEF	LDT1	75.08	67.90
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	2.7770e-003	2.6580e-003
tblVehicleEF	LDT1	3.5610e-003	3.0010e-003
tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.20	0.22
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.16	0.71
tblVehicleEF	LDT1	0.21	0.40
tblVehicleEF	LDT1	3.5840e-003	3.3760e-003
tblVehicleEF	LDT1	8.0200e-004	6.7200e-004
tblVehicleEF	LDT1	0.20	0.22
tblVehicleEF	LDT1	0.30	0.23
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.16	0.71
tblVehicleEF	LDT1	0.23	0.44
tblVehicleEF	LDT1	0.01	8.0820e-003

tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.39	1.53
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tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.7770e-003	2.6580e-003
tblVehicleEF	LDT1	3.5610e-003	3.0010e-003
tblVehicleEF	LDT1	2.5570e-003	2.4460e-003
tblVehicleEF	LDT1	3.2750e-003	2.7590e-003
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.21	0.92
tblVehicleEF	LDT1	0.24	0.46
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tblVehicleEF	LDT1	8.1200e-004	6.8100e-004
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.33	0.26
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.21	0.92
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	6.8790e-003	5.1110e-003
tblVehicleEF	LDT2	8.6540e-003	0.08
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tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LDT2	3.9410e-003	3.6050e-003
tblVehicleEF	LDT2	8.9500e-004	7.5300e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.13	0.41
tblVehicleEF	LDT2	7.2530e-003	5.4140e-003
tblVehicleEF	LDT2	7.7840e-003	0.07
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tblVehicleEF	LDT2	86.53	75.36
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	4.1030e-003	3.7230e-003
tblVehicleEF	LDT2	8.9100e-004	7.4600e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.38
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.7510e-003	5.0130e-003
tblVehicleEF	LDT2	8.8330e-003	0.08
tblVehicleEF	LDT2	0.83	1.05
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tblVehicleEF	LDT2	387.46	359.99
tblVehicleEF	LDT2	86.53	76.29
tblVehicleEF	LDT2	0.08	0.09

tblVehicleEF	LDT2	1.7760e-003	1.7420e-003
tblVehicleEF	LDT2	2.1460e-003	1.9370e-003
tblVehicleEF	LDT2	1.6330e-003	1.6030e-003
tblVehicleEF	LDT2	1.9730e-003	1.7810e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.12	0.38
tblVehicleEF	LDT2	3.8810e-003	3.5620e-003
tblVehicleEF	LDT2	8.9600e-004	7.5500e-004
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.48
tblVehicleEF	LDT2	0.13	0.42
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tblVehicleEF	LHD1	0.01	6.1820e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.94	0.73
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tblVehicleEF	LHD1	621.06	691.04
tblVehicleEF	LHD1	35.31	13.21

tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.47	1.00
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003
tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	3.0060e-003	2.5300e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8490e-003	1.5400e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.29	0.52
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005
tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0800e-004	1.3100e-004
tblVehicleEF	LHD1	3.0060e-003	2.5300e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.8490e-003	1.5400e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.29	0.52
tblVehicleEF	LHD1	0.34	0.10

tblVehicleEF	LHD1	6.3610e-003	6.2260e-003
tblVehicleEF	LHD1	0.01	6.2770e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.95	0.74
tblVehicleEF	LHD1	2.79	1.15
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.05
tblVehicleEF	LHD1	35.31	13.12
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.38	0.94
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003
tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	4.2030e-003	3.5460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5350e-003	2.1240e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.28	0.51
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005

tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0600e-004	1.3000e-004
tblVehicleEF	LHD1	4.2030e-003	3.5460e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.1240e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.28	0.51
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	6.3610e-003	6.2110e-003
tblVehicleEF	LHD1	0.01	6.1560e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.19
tblVehicleEF	LHD1	0.94	0.73
tblVehicleEF	LHD1	2.93	1.20
tblVehicleEF	LHD1	9.00	9.11
tblVehicleEF	LHD1	621.06	691.03
tblVehicleEF	LHD1	35.31	13.22
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.44	0.98
tblVehicleEF	LHD1	8.2000e-004	6.9400e-004
tblVehicleEF	LHD1	9.8890e-003	9.5110e-003
tblVehicleEF	LHD1	0.01	7.7420e-003
tblVehicleEF	LHD1	1.0720e-003	3.0100e-004
tblVehicleEF	LHD1	7.8500e-004	6.6400e-004
tblVehicleEF	LHD1	2.4720e-003	2.3780e-003
tblVehicleEF	LHD1	0.01	7.3790e-003

tblVehicleEF	LHD1	9.8700e-004	2.7800e-004
tblVehicleEF	LHD1	3.1710e-003	2.6840e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8860e-003	1.5770e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.57
tblVehicleEF	LHD1	0.31	0.10
tblVehicleEF	LHD1	9.1000e-005	8.9000e-005
tblVehicleEF	LHD1	6.1100e-003	6.7570e-003
tblVehicleEF	LHD1	4.0900e-004	1.3100e-004
tblVehicleEF	LHD1	3.1710e-003	2.6840e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.8860e-003	1.5770e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.57
tblVehicleEF	LHD1	0.34	0.10
tblVehicleEF	LHD2	4.8210e-003	4.6270e-003
tblVehicleEF	LHD2	5.5970e-003	4.4370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.51
tblVehicleEF	LHD2	1.65	0.86
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.11
tblVehicleEF	LHD2	30.51	10.81

tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.15	1.18
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.3970e-003	1.6410e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9000e-004	1.0050e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004
tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3600e-004	1.0700e-004
tblVehicleEF	LHD2	1.3970e-003	1.6410e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.9000e-004	1.0050e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.11	0.35
tblVehicleEF	LHD2	0.18	0.07

tblVehicleEF	LHD2	4.8210e-003	4.6370e-003
tblVehicleEF	LHD2	5.6690e-003	4.4870e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.51
tblVehicleEF	LHD2	1.58	0.82
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.12
tblVehicleEF	LHD2	30.51	10.75
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.09	1.12
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.9580e-003	2.3000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2220e-003	1.3860e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.16	0.06
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004

tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3400e-004	1.0600e-004
tblVehicleEF	LHD2	1.9580e-003	2.3000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2220e-003	1.3860e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.34
tblVehicleEF	LHD2	0.17	0.07
tblVehicleEF	LHD2	4.8210e-003	4.6250e-003
tblVehicleEF	LHD2	5.5770e-003	4.4240e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.47	0.50
tblVehicleEF	LHD2	1.66	0.86
tblVehicleEF	LHD2	13.64	13.60
tblVehicleEF	LHD2	636.99	705.11
tblVehicleEF	LHD2	30.51	10.82
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.13	1.16
tblVehicleEF	LHD2	1.1850e-003	1.1350e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5000e-004	1.6900e-004
tblVehicleEF	LHD2	1.1340e-003	1.0860e-003
tblVehicleEF	LHD2	2.6220e-003	2.5820e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	5.0700e-004	1.5500e-004
tblVehicleEF	LHD2	1.4510e-003	1.7220e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	1.0130e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.12	0.38
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3400e-004	1.3100e-004
tblVehicleEF	LHD2	6.2170e-003	6.8390e-003
tblVehicleEF	LHD2	3.3600e-004	1.0700e-004
tblVehicleEF	LHD2	1.4510e-003	1.7220e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.9600e-004	1.0130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.12	0.38
tblVehicleEF	LHD2	0.18	0.07
tblVehicleEF	MCY	0.47	0.36
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.31	19.68
tblVehicleEF	MCY	9.52	8.39
tblVehicleEF	MCY	176.22	214.43
tblVehicleEF	MCY	46.17	60.88
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003

tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003
tblVehicleEF	MCY	1.14	1.17
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.43	2.45
tblVehicleEF	MCY	0.69	2.27
tblVehicleEF	MCY	2.08	1.84
tblVehicleEF	MCY	2.1500e-003	2.1220e-003
tblVehicleEF	MCY	6.7900e-004	6.0200e-004
tblVehicleEF	MCY	1.14	1.17
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	0.72	0.74
tblVehicleEF	MCY	2.99	3.00
tblVehicleEF	MCY	0.69	2.27
tblVehicleEF	MCY	2.27	2.01
tblVehicleEF	MCY	0.46	0.35
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	18.54	18.88
tblVehicleEF	MCY	8.79	7.71
tblVehicleEF	MCY	176.22	212.93
tblVehicleEF	MCY	46.17	59.14
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003
tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003

tblVehicleEF	MCY	1.72	1.76
tblVehicleEF	MCY	0.76	0.79
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	2.36	2.38
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	1.87	1.64
tblVehicleEF	MCY	2.1350e-003	2.1070e-003
tblVehicleEF	MCY	6.6000e-004	5.8500e-004
tblVehicleEF	MCY	1.72	1.76
tblVehicleEF	MCY	0.76	0.79
tblVehicleEF	MCY	1.14	1.16
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.65	2.13
tblVehicleEF	MCY	2.03	1.78
tblVehicleEF	MCY	0.47	0.36
tblVehicleEF	MCY	0.16	0.25
tblVehicleEF	MCY	19.42	19.80
tblVehicleEF	MCY	9.63	8.50
tblVehicleEF	MCY	176.22	214.67
tblVehicleEF	MCY	46.17	61.19
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	2.0100e-003	1.9940e-003
tblVehicleEF	MCY	4.1670e-003	3.4920e-003
tblVehicleEF	MCY	1.8840e-003	1.8690e-003
tblVehicleEF	MCY	3.9390e-003	3.3010e-003
tblVehicleEF	MCY	1.27	1.30
tblVehicleEF	MCY	0.93	0.96

tblVehicleEF	MCY	0.76	0.78
tblVehicleEF	MCY	2.44	2.46
tblVehicleEF	MCY	0.79	2.59
tblVehicleEF	MCY	2.12	1.88
tblVehicleEF	MCY	2.1520e-003	2.1240e-003
tblVehicleEF	MCY	6.8200e-004	6.0500e-004
tblVehicleEF	MCY	1.27	1.30
tblVehicleEF	MCY	0.93	0.96
tblVehicleEF	MCY	0.76	0.78
tblVehicleEF	MCY	3.00	3.02
tblVehicleEF	MCY	0.79	2.59
tblVehicleEF	MCY	2.31	2.05
tblVehicleEF	MDV	0.01	7.1710e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.51	1.34
tblVehicleEF	MDV	3.15	3.40
tblVehicleEF	MDV	527.72	446.33
tblVehicleEF	MDV	113.45	92.14
tblVehicleEF	MDV	0.17	0.13
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.10	0.44
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MDV	5.2890e-003	4.4130e-003
tblVehicleEF	MDV	1.1900e-003	9.1200e-004
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.10	0.44
tblVehicleEF	MDV	0.27	0.53
tblVehicleEF	MDV	0.01	7.5390e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.62	1.44
tblVehicleEF	MDV	2.73	2.93
tblVehicleEF	MDV	548.79	458.88
tblVehicleEF	MDV	113.45	91.23
tblVehicleEF	MDV	0.15	0.12
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.22	0.44

tblVehicleEF	MDV	5.5020e-003	4.5370e-003
tblVehicleEF	MDV	1.1830e-003	9.0300e-004
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.17	0.15
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.06	0.05
tblVehicleEF	MDV	0.09	0.41
tblVehicleEF	MDV	0.25	0.48
tblVehicleEF	MDV	0.01	7.0490e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.47	1.30
tblVehicleEF	MDV	3.23	3.50
tblVehicleEF	MDV	519.95	441.69
tblVehicleEF	MDV	113.45	92.34
tblVehicleEF	MDV	0.16	0.13
tblVehicleEF	MDV	1.9300e-003	1.9040e-003
tblVehicleEF	MDV	2.3510e-003	2.1330e-003
tblVehicleEF	MDV	1.7800e-003	1.7570e-003
tblVehicleEF	MDV	2.1640e-003	1.9630e-003
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.25	0.50
tblVehicleEF	MDV	5.2110e-003	4.3670e-003
tblVehicleEF	MDV	1.1920e-003	9.1400e-004

tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.18	0.16
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.11	0.51
tblVehicleEF	MDV	0.28	0.54
tblVehicleEF	MH	0.03	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.10	0.34
tblVehicleEF	MH	6.44	0.00
tblVehicleEF	MH	1,116.28	994.19
tblVehicleEF	MH	60.49	0.00
tblVehicleEF	MH	1.62	4.22
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.09	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.40	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1800e-004	0.00

tblVehicleEF	MH	1.09	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MH	0.04	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.13	0.34
tblVehicleEF	MH	6.11	0.00
tblVehicleEF	MH	1,116.28	994.19
tblVehicleEF	MH	60.49	0.00
tblVehicleEF	MH	1.50	3.99
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.63	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1300e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.07	0.00
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tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.42	0.00
tblVehicleEF	MH	0.03	3.5320e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	3.09	0.34
tblVehicleEF	MH	6.48	0.00
tblVehicleEF	MH	1,116.28	994.19
tblVehicleEF	MH	60.49	0.00
tblVehicleEF	MH	1.58	4.14
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.4790e-003	0.00
tblVehicleEF	MH	3.2420e-003	4.0000e-003
tblVehicleEF	MH	0.03	0.11
tblVehicleEF	MH	1.3730e-003	0.00
tblVehicleEF	MH	1.22	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.01	9.3990e-003
tblVehicleEF	MH	7.1900e-004	0.00

tblVehicleEF	MH	1.22	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.16	0.09
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.44	0.00
tblVehicleEF	MHD	0.02	5.1400e-003
tblVehicleEF	MHD	9.3840e-003	8.0870e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.67	0.72
tblVehicleEF	MHD	7.25	1.47
tblVehicleEF	MHD	143.27	58.14
tblVehicleEF	MHD	1,150.33	1,132.84
tblVehicleEF	MHD	62.62	13.69
tblVehicleEF	MHD	1.07	0.50
tblVehicleEF	MHD	2.51	2.53
tblVehicleEF	MHD	4.0620e-003	2.0960e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.0700e-004	1.3500e-004
tblVehicleEF	MHD	3.8860e-003	2.0050e-003
tblVehicleEF	MHD	0.07	0.07
tblVehicleEF	MHD	8.3500e-004	1.2400e-004
tblVehicleEF	MHD	1.2870e-003	5.3100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.9900e-004	3.3900e-004

tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.45	0.07
tblVehicleEF	MHD	1.3790e-003	5.5400e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.5400e-004	1.3500e-004
tblVehicleEF	MHD	1.2870e-003	5.3100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	7.9900e-004	3.3900e-004
tblVehicleEF	MHD	0.15	0.16
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.49	0.08
tblVehicleEF	MHD	0.02	4.8610e-003
tblVehicleEF	MHD	9.4650e-003	8.1370e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.35	0.31
tblVehicleEF	MHD	0.67	0.73
tblVehicleEF	MHD	6.91	1.40
tblVehicleEF	MHD	151.75	59.56
tblVehicleEF	MHD	1,150.33	1,132.85
tblVehicleEF	MHD	62.62	13.57
tblVehicleEF	MHD	1.11	0.51
tblVehicleEF	MHD	2.37	2.39
tblVehicleEF	MHD	3.4240e-003	1.7690e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.0700e-004	1.3500e-004

tblVehicleEF	MHD	3.2760e-003	1.6920e-003
tblVehicleEF	MHD	0.07	0.07
tblVehicleEF	MHD	8.3500e-004	1.2400e-004
tblVehicleEF	MHD	1.8220e-003	7.5400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.1230e-003	4.7800e-004
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.43	0.07
tblVehicleEF	MHD	1.4590e-003	5.6700e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.4800e-004	1.3400e-004
tblVehicleEF	MHD	1.8220e-003	7.5400e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	1.1230e-003	4.7800e-004
tblVehicleEF	MHD	0.15	0.16
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.47	0.07
tblVehicleEF	MHD	0.02	5.5400e-003
tblVehicleEF	MHD	9.3600e-003	8.0700e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	0.66	0.52
tblVehicleEF	MHD	0.67	0.72
tblVehicleEF	MHD	7.32	1.48
tblVehicleEF	MHD	131.55	56.18

tblVehicleEF	MHD	1,150.33	1,132.84
tblVehicleEF	MHD	62.62	13.71
tblVehicleEF	MHD	1.03	0.49
tblVehicleEF	MHD	2.46	2.48
tblVehicleEF	MHD	4.9420e-003	2.5480e-003
tblVehicleEF	MHD	0.07	0.08
tblVehicleEF	MHD	9.0700e-004	1.3500e-004
tblVehicleEF	MHD	4.7280e-003	2.4380e-003
tblVehicleEF	MHD	0.07	0.07
tblVehicleEF	MHD	8.3500e-004	1.2400e-004
tblVehicleEF	MHD	1.3680e-003	5.5800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.2500e-004	3.4600e-004
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.45	0.07
tblVehicleEF	MHD	1.2690e-003	5.3500e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.5500e-004	1.3600e-004
tblVehicleEF	MHD	1.3680e-003	5.5800e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	8.2500e-004	3.4600e-004
tblVehicleEF	MHD	0.15	0.16
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.49	0.08

tblVehicleEF	OBUS	0.01	9.3630e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.55
tblVehicleEF	OBUS	0.76	1.42
tblVehicleEF	OBUS	6.31	2.57
tblVehicleEF	OBUS	84.54	86.41
tblVehicleEF	OBUS	1,239.45	1,470.78
tblVehicleEF	OBUS	70.99	20.93
tblVehicleEF	OBUS	0.51	0.66
tblVehicleEF	OBUS	1.94	2.62
tblVehicleEF	OBUS	2.7600e-004	3.6980e-003
tblVehicleEF	OBUS	9.7470e-003	0.06
tblVehicleEF	OBUS	8.4600e-004	2.0600e-004
tblVehicleEF	OBUS	2.6400e-004	3.5380e-003
tblVehicleEF	OBUS	9.3090e-003	0.06
tblVehicleEF	OBUS	7.8000e-004	1.9000e-004
tblVehicleEF	OBUS	1.5110e-003	1.8740e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.9200e-004	9.7100e-004
tblVehicleEF	OBUS	0.07	0.16
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	8.1900e-004	8.2300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2100e-004	2.0700e-004

tblVehicleEF	OBUS	1.5110e-003	1.8740e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	7.9200e-004	9.7100e-004
tblVehicleEF	OBUS	0.08	0.19
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.44	0.14
tblVehicleEF	OBUS	0.01	9.3440e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.52
tblVehicleEF	OBUS	0.77	1.44
tblVehicleEF	OBUS	5.99	2.44
tblVehicleEF	OBUS	88.53	87.77
tblVehicleEF	OBUS	1,239.45	1,470.81
tblVehicleEF	OBUS	70.99	20.70
tblVehicleEF	OBUS	0.52	0.66
tblVehicleEF	OBUS	1.83	2.46
tblVehicleEF	OBUS	2.3300e-004	3.1210e-003
tblVehicleEF	OBUS	9.7470e-003	0.06
tblVehicleEF	OBUS	8.4600e-004	2.0600e-004
tblVehicleEF	OBUS	2.2300e-004	2.9860e-003
tblVehicleEF	OBUS	9.3090e-003	0.06
tblVehicleEF	OBUS	7.8000e-004	1.9000e-004
tblVehicleEF	OBUS	2.0790e-003	2.5650e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07

tblVehicleEF	OBUS	1.0980e-003	1.3340e-003
tblVehicleEF	OBUS	0.07	0.16
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.39	0.12
tblVehicleEF	OBUS	8.5700e-004	8.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1500e-004	2.0500e-004
tblVehicleEF	OBUS	2.0790e-003	2.5650e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	1.0980e-003	1.3340e-003
tblVehicleEF	OBUS	0.09	0.20
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	9.4080e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.30	0.61
tblVehicleEF	OBUS	0.76	1.41
tblVehicleEF	OBUS	6.36	2.59
tblVehicleEF	OBUS	79.02	84.53
tblVehicleEF	OBUS	1,239.45	1,470.77
tblVehicleEF	OBUS	70.99	20.96
tblVehicleEF	OBUS	0.48	0.64
tblVehicleEF	OBUS	1.91	2.57
tblVehicleEF	OBUS	3.3600e-004	4.4940e-003
tblVehicleEF	OBUS	9.7470e-003	0.06

tblVehicleEF	OBUS	8.4600e-004	2.0600e-004
tblVehicleEF	OBUS	3.2100e-004	4.3000e-003
tblVehicleEF	OBUS	9.3090e-003	0.06
tblVehicleEF	OBUS	7.8000e-004	1.9000e-004
tblVehicleEF	OBUS	1.5690e-003	1.9560e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.9500e-004	9.8200e-004
tblVehicleEF	OBUS	0.07	0.16
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.41	0.13
tblVehicleEF	OBUS	7.6600e-004	8.0500e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2200e-004	2.0700e-004
tblVehicleEF	OBUS	1.5690e-003	1.9560e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	7.9500e-004	9.8200e-004
tblVehicleEF	OBUS	0.08	0.19
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.45	0.14
tblVehicleEF	SBUS	0.88	0.06
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.10	6.6130e-003
tblVehicleEF	SBUS	7.85	2.49
tblVehicleEF	SBUS	1.42	1.32
tblVehicleEF	SBUS	10.38	0.97

tblVehicleEF	SBUS	1,161.48	352.66
tblVehicleEF	SBUS	1,108.93	1,157.56
tblVehicleEF	SBUS	51.39	5.31
tblVehicleEF	SBUS	11.18	4.00
tblVehicleEF	SBUS	5.44	7.08
tblVehicleEF	SBUS	0.01	7.5760e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	9.3700e-004	6.7000e-005
tblVehicleEF	SBUS	0.01	7.2490e-003
tblVehicleEF	SBUS	2.6990e-003	2.6820e-003
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	8.6100e-004	6.1000e-005
tblVehicleEF	SBUS	4.4090e-003	1.3490e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.95	0.30
tblVehicleEF	SBUS	2.1150e-003	6.1100e-004
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.02	0.10
tblVehicleEF	SBUS	0.55	0.04
tblVehicleEF	SBUS	0.01	3.3630e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.9400e-004	5.3000e-005
tblVehicleEF	SBUS	4.4090e-003	1.3490e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.37	0.43
tblVehicleEF	SBUS	2.1150e-003	6.1100e-004

tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.02	0.10
tblVehicleEF	SBUS	0.60	0.04
tblVehicleEF	SBUS	0.88	0.06
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.09	5.9410e-003
tblVehicleEF	SBUS	7.71	2.44
tblVehicleEF	SBUS	1.44	1.34
tblVehicleEF	SBUS	8.58	0.80
tblVehicleEF	SBUS	1,215.43	365.15
tblVehicleEF	SBUS	1,108.93	1,157.60
tblVehicleEF	SBUS	51.39	5.03
tblVehicleEF	SBUS	11.54	4.12
tblVehicleEF	SBUS	5.13	6.69
tblVehicleEF	SBUS	0.01	6.3910e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	9.3700e-004	6.7000e-005
tblVehicleEF	SBUS	0.01	6.1150e-003
tblVehicleEF	SBUS	2.6990e-003	2.6820e-003
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	8.6100e-004	6.1000e-005
tblVehicleEF	SBUS	5.9890e-003	1.8250e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.95	0.30
tblVehicleEF	SBUS	2.9120e-003	8.3100e-004
tblVehicleEF	SBUS	0.15	0.16

tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.49	0.04
tblVehicleEF	SBUS	0.01	3.4810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6400e-004	5.0000e-005
tblVehicleEF	SBUS	5.9890e-003	1.8250e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.37	0.43
tblVehicleEF	SBUS	2.9120e-003	8.3100e-004
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.54	0.04
tblVehicleEF	SBUS	0.88	0.06
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	0.10	6.7100e-003
tblVehicleEF	SBUS	8.05	2.57
tblVehicleEF	SBUS	1.41	1.31
tblVehicleEF	SBUS	10.55	0.99
tblVehicleEF	SBUS	1,086.99	335.41
tblVehicleEF	SBUS	1,108.93	1,157.55
tblVehicleEF	SBUS	51.39	5.34
tblVehicleEF	SBUS	10.69	3.84
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tblVehicleEF	SBUS	0.02	9.2130e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	9.3700e-004	6.7000e-005

tblVehicleEF	SBUS	0.02	8.8140e-003
tblVehicleEF	SBUS	2.6990e-003	2.6820e-003
tblVehicleEF	SBUS	0.03	0.05
tblVehicleEF	SBUS	8.6100e-004	6.1000e-005
tblVehicleEF	SBUS	4.6710e-003	1.4690e-003
tblVehicleEF	SBUS	0.05	0.01
tblVehicleEF	SBUS	0.96	0.30
tblVehicleEF	SBUS	2.1160e-003	6.2800e-004
tblVehicleEF	SBUS	0.14	0.16
tblVehicleEF	SBUS	0.03	0.13
tblVehicleEF	SBUS	0.56	0.04
tblVehicleEF	SBUS	0.01	3.2000e-003
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tblVehicleEF	SBUS	6.9700e-004	5.3000e-005
tblVehicleEF	SBUS	4.6710e-003	1.4690e-003
tblVehicleEF	SBUS	0.05	0.01
tblVehicleEF	SBUS	1.38	0.43
tblVehicleEF	SBUS	2.1160e-003	6.2800e-004
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.13
tblVehicleEF	SBUS	0.61	0.04
tblVehicleEF	UBUS	2.19	7.32
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	10.98	27.66
tblVehicleEF	UBUS	14.08	1.81
tblVehicleEF	UBUS	1,864.44	2,044.16
tblVehicleEF	UBUS	130.39	22.76

tblVehicleEF	UBUS	6.14	4.10
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	6.9860e-003	1.9960e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	3.9610e-003	1.3650e-003
tblVehicleEF	UBUS	0.68	0.11
tblVehicleEF	UBUS	0.03	0.15
tblVehicleEF	UBUS	1.04	0.14
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5570e-003	2.2500e-004
tblVehicleEF	UBUS	6.9860e-003	1.9960e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	3.9610e-003	1.3650e-003
tblVehicleEF	UBUS	2.93	7.48
tblVehicleEF	UBUS	0.03	0.15
tblVehicleEF	UBUS	1.14	0.15
tblVehicleEF	UBUS	2.19	7.32
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	10.97	27.66
tblVehicleEF	UBUS	12.47	1.61

tblVehicleEF	UBUS	1,864.44	2,044.17
tblVehicleEF	UBUS	130.39	22.40
tblVehicleEF	UBUS	5.77	4.09
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	9.3910e-003	2.7340e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	5.3580e-003	1.8360e-003
tblVehicleEF	UBUS	0.68	0.11
tblVehicleEF	UBUS	0.03	0.13
tblVehicleEF	UBUS	0.96	0.13
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5290e-003	2.2200e-004
tblVehicleEF	UBUS	9.3910e-003	2.7340e-003
tblVehicleEF	UBUS	0.12	0.02
tblVehicleEF	UBUS	5.3580e-003	1.8360e-003
tblVehicleEF	UBUS	2.94	7.48
tblVehicleEF	UBUS	0.03	0.13
tblVehicleEF	UBUS	1.05	0.14
tblVehicleEF	UBUS	2.18	7.32
tblVehicleEF	UBUS	0.08	0.03

tblVehicleEF	UBUS	10.97	27.66
tblVehicleEF	UBUS	14.36	1.85
tblVehicleEF	UBUS	1,864.44	2,044.16
tblVehicleEF	UBUS	130.39	22.82
tblVehicleEF	UBUS	6.02	4.10
tblVehicleEF	UBUS	0.54	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.05	5.3370e-003
tblVehicleEF	UBUS	1.3770e-003	3.7000e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.05	5.1030e-003
tblVehicleEF	UBUS	1.2780e-003	3.4000e-005
tblVehicleEF	UBUS	8.0730e-003	1.9320e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2740e-003	1.3000e-003
tblVehicleEF	UBUS	0.67	0.11
tblVehicleEF	UBUS	0.04	0.18
tblVehicleEF	UBUS	1.05	0.14
tblVehicleEF	UBUS	8.9010e-003	4.3480e-003
tblVehicleEF	UBUS	1.5620e-003	2.2600e-004
tblVehicleEF	UBUS	8.0730e-003	1.9320e-003
tblVehicleEF	UBUS	0.15	0.02
tblVehicleEF	UBUS	4.2740e-003	1.3000e-003
tblVehicleEF	UBUS	2.93	7.48
tblVehicleEF	UBUS	0.04	0.18
tblVehicleEF	UBUS	1.15	0.15

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	2.49	1.20
tblVehicleTrips	SU_TR	0.73	0.59
tblVehicleTrips	WD_TR	6.83	1.59

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					
2019	0.0000	0.0000	0.0000	0.0000	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					
2019	0.0000	0.0000	0.0000	0.0000	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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Energy	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Mobile	5.0050	144.4129	23.7086	0.3986	11.7666	2.1201	13.8867	3.2478	2.0283	5.2761		42,096.8137	42,096.8137	0.2482		42,103.0193
Total	**9.8031**	**144.9339**	**24.1679**	**0.4018**	**11.7666**	**2.1597**	**13.9263**	**3.2478**	**2.0680**	**5.3157**		**42,721.7710**	**42,721.7710**	**0.2603**	**0.0115**	**42,731.6933**

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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Energy	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Mobile	5.0050	144.4129	23.7086	0.3986	11.7666	2.1201	13.8867	3.2478	2.0283	5.2761		42,096.8137	42,096.8137	0.2482		42,103.0193
Total	**9.8031**	**144.9339**	**24.1679**	**0.4018**	**11.7666**	**2.1597**	**13.9263**	**3.2478**	**2.0680**	**5.3157**		**42,721.7710**	**42,721.7710**	**0.2603**	**0.0115**	**42,731.6933**

	ROG	NOx	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	11/14/2019	11/14/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

3.2 Demolition - 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	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 Demolition - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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	5.0050	144.4129	23.7086	0.3986	11.7666	2.1201	13.8867	3.2478	2.0283	5.2761		42,096.8137	42,096.8137	0.2482		42,103.0193
Unmitigated	5.0050	144.4129	23.7086	0.3986	11.7666	2.1201	13.8867	3.2478	2.0283	5.2761		42,096.8137	42,096.8137	0.2482		42,103.0193

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	337.27	254.54	125.15	4,297,382	4,297,382
Total	337.27	254.54	125.15	4,297,382	4,297,382

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
Industrial Park	40.00	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
Industrial Park	0.000000	0.000000	0.000000	0.000000	0.085799	0.000000	0.071006	0.843195	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	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
NaturalGas Unmitigated	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244

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					
Industrial Park	5311.74	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Total		**0.0573**	**0.5208**	**0.4374**	**3.1200e-003**		**0.0396**	**0.0396**		**0.0396**	**0.0396**		**624.9109**	**624.9109**	**0.0120**	**0.0115**	**628.6244**

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					
Industrial Park	5.31174	0.0573	0.5208	0.4374	3.1200e-003		0.0396	0.0396		0.0396	0.0396		624.9109	624.9109	0.0120	0.0115	628.6244
Total		**0.0573**	**0.5208**	**0.4374**	**3.1200e-003**		**0.0396**	**0.0396**		**0.0396**	**0.0396**		**624.9109**	**624.9109**	**0.0120**	**0.0115**	**628.6244**

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	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Unmitigated	4.7408	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496

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	0.5387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Total	**4.7408**	**2.0000e-004**	**0.0219**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0464**	**0.0464**	**1.3000e-004**		**0.0496**

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	0.5387					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0700e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0464	0.0464	1.3000e-004		0.0496
Total	**4.7408**	**2.0000e-004**	**0.0219**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0464**	**0.0464**	**1.3000e-004**		**0.0496**

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