Appendix J

Rancho La Habra

GREENHOUSE GAS ANALYSIS

CITY OF LA HABRA

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LIST OF ABBREVIATED TERMS

(1)	Reference
AB	Assembly Bill
APA	Administrative Procedure Act
APS	Alternative Planning Organizations
AQIA	Air Quality Impact Analysis
AR5	IPCC's 5th Assessment Report
ARB	California Air Resources Board
BAU	Business As Usual
C_2F_6	Hexafluoroethane
C_2H_6	Ethane
$C_2H_2F_4$	Tetrafluroethane
$C_2H_4F_2$	Ethylidene Fluoride
CAA	Federal Clean Air Act
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGAPS	California LBNL GHG Analysis of Policies Spreadsheet
CALGreen	California Green Building Standards Code
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resource Board
CAP	Climate Action Plan
CAT	Climate Action Team
CBSC	California Building Standards Commission
CEC	California Energy Commission
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CF_4	Tetrafluoromethane
CFC	Chlorofluorocarbons
CFR	Code of Federal Regulations
CH_4	Methane
CHF_3	Carbon Trifluoride
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
COP	Conference of the Parties
CPUC	California Public Utilities Commission
EMFAC	Emission Factor Model

EPA	Environmental Protection Agency
EPS	Emission Performance Standard
EVSE	Electric Vehicle Supply Equipment
FED	Functional Equivalent Document
GHG	Greenhouse Gas
GCC	Global Climate Change
GHGA	Greenhouse Gas Analysis
GPD	Gallons Per Day
GPY	Gallons Per Year
GWP	Global Warming Potential
H_2O	Water
HFC	Hydrofluorocarbons
HP	Horsepower
I-15	Interstate 15
IPCC	Intergovernmental Panel on Climate Change
ISO	Independent System Operator
ITE	Institute of Transportation Engineers
LBNL	Lawrence Berkeley National Laboratory
LCA	Life-Cycle Analysis
LCFS	Low Carbon Fuel Standard
LEV	Low-Emission Vehicle
MMR	Mandatory Reporting Rule
$MMTCO_2e$	Million Metric Ton of Carbon Dioxide Equivalent
MPG	Miles Per Gallon
MPOs	Metropolitan Planning Organizations
$MTCO_2e$	Metric Ton of Carbon Dioxide Equivalent
MY	Model Year
NHTSA	National Highway Traffic Safety Administration
N_20	Nitrogen Dioxide/Nitrous Oxide
NCHRP	National Cooperative Highway Research Program
NDC	Nationally Determined Contributions
NF_3	Nitrogen Trifluoride
NIOSH	National Institute for Occupational Safety and Health
NO_X	Oxides of Nitrogen
PFC	Perfluorocarbons
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

PPT	Parts Per Trillion
Project	Rancho La Habra
RPS	Renewable Portfolio Standard
RTP	Regional Transportation Plan
SAR	Second Assessment Report
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategies
SF_6	Sulfur Hexaflouride
SLPS	Short-Lived Climate Pollutant Strategy
SP	Service Population
TIA	Traffic Impact Analysis
UNFCCC	United Nations' Framework Convention on Climate Change
URBEMIS	Urban Emissions
UTR	Utility Tractors
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
WRI	World Resources Institute
WSA	Water Supply Assessment
ZE/NZE	Zero and Near-Zero Emissions

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EXECUTIVE SUMMARY

This report provides a comprehensive update to and replaces the December 21, 2016 *Rancho La Habra Greenhouse Gas Analysis Report.* This update incorporates updated regulatory requirements, the latest emissions modeling tools, updated project description, and updated traffic data.

ES.1 PROJECT REQUIREMENTS

The Project would be required to comply with laws and regulations imposed by the State of California and the South Coast Air Quality Management District (SCAQMD) aimed at the reduction of air pollutant emissions. The laws and regulations that are directly applicable to the Project or would assist in the reduction of greenhouse gas emissions attributable to the Project include:

- Global Warming Solutions Act of 2006 (AB32) (1).
- Regional GHG Emissions Reduction Targets (2)/Sustainable Communities Strategies (SB 375) (2).
- Pavley Fuel Efficiency Standards (AB1493). Establishes fuel efficiency ratings for new vehicles (3).
- Title 24 California Code of Regulations (California Building Code). Establishes energy efficiency requirements for new construction (4).
- Title 20 California Code of Regulations (Appliance Energy Efficiency Standards). Establishes energy efficiency requirements for appliances (5).
- Title 17 California Code of Regulations (Low Carbon Fuel Standard). Requires carbon content of fuel sold in California to be 10% less by 2020 (6).
- California Water Conservation in Landscaping Act of 2006 (AB1881). Requires local agencies to adopt the Department of Water Resources updated Water Efficient Landscape Ordinance or equivalent by January 1, 2010 to ensure efficient landscapes in new development and reduced water waste in existing landscapes (7).
- Statewide Retail Provider Emissions Performance Standards (SB 1368). Requires energy generators to achieve performance standards for GHG emissions (8).
- Renewable Portfolio Standards (SB 1078). Requires electric corporations to increase the amount of energy obtained from eligible renewable energy resources to 20 percent by 2010 and 33 percent by 2020 (9).
- Senate Bill 32 (SB 32). Requires the state to reduce statewide greenhouse gas emissions to 40 percent below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15 (10).
- Senate Bill 350 (SB 350). Also known as the Clean Energy and Pollution Reduction Act of 2015, SB 350 increases the state's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030 and requires the state to double statewide energy efficiency savings in electricity and natural gas uses by 2030.
- Assembly Bill 398 (AB 398). AB 398 was enacted in 2017 to extend and clarify the role of the Cap-and Trade Program through December 31, 2030. As part of AB 398, refinements were made to the Cap-and-Trade program to establish updated protocols and allocation of proceeds to reduce GHG emissions.

Low Carbon Fuel Standards and the RPS, which address GHG emissions from mobile sources and electricity use, will be in effect for the AB 32 and SB 32 target years of 2020 and 2030, respectively, and therefore are accounted for in the Project's emission calculations.

ES.2 PROJECT DESIGN FEATURES

The Project incorporates the following design features and attributes promoting energy efficiency and sustainability. Because these features/attributes are integral to the Project, and/or are regulatory requirements, they are not considered to be mitigation measures.

- Regional vehicle miles traveled (VMT) and associated vehicular-source emissions are reduced by the following Project design features/attributes:
    - Pedestrian connections shall be provided to surrounding areas consistent with the City's General Plan. Providing a pedestrian access network to link areas of the Project site encourages people to walk instead of drive. The Project would provide a pedestrian access network that internally links all uses and connects to all existing or planned external streets and pedestrian facilities contiguous with the project site. The Project would minimize barriers to pedestrian access and interconnectivity.
- Building shells and building components, such as windows, roof systems, electrical and lighting systems, and heating, ventilating, and air conditioning systems, will be designed to meet Title 24 building energy efficiency standards. It is conservatively assumed that 2019 Title 24 Standards will apply at the time of Project construction. 2019 Title 24 code requirements are intended to achieve 30% less energy use for non-residential buildings and 53% less energy use for residential buildings.
- To reduce water demand and associated energy use, subsequent development proposals within the Project site would be required to implement a Water Conservation Strategy and demonstrate a minimum 20% reduction in indoor and outdoor water usage when compared to baseline water demand (total expected water demand without implementation of the Water Conservation Strategy)[1].
- The Project is required to comply with SCAQMD Rule 445, which prohibits the use of wood burning stoves and fireplaces in new development
- Specified use of Energy Star appliances.
- Installation of water-efficient plumbing fixtures.
- Installation of tankless water heater systems.
- Installation of a 240-volt circuit in each home to allow easy installation of electric vehicle (EV) charging in accordance with the mandatory requirements of CalGreen and Title 24 standards.

ES.3 CONSTRUCTION-SOURCE AIR POLLUTANT EMISSIONS MITIGATION MEASURES

The Project Air Quality Impact Analysis (AQIA) recommends construction activity mitigation measures that would reduce and avoid air pollutant emissions generated by subsequent development within the Project site. This analysis conservatively assumes that air pollutant

1 Reduction of 20% indoor and outdoor water usage is consistent with the current CalGreen Code performance standards for residential and non-residential land uses. Per CalGreen, the reduction shall be based on the maximum allowable water use per plumbing fixture and fittings as required by the California Building Standards Code.

emissions mitigation measures that will be implemented during Project construction, including mitigation measures intended to reduce tail-pipe emissions from construction and off-road vehicles, will not also reduce GHG emissions and, therefore, were not accounted for in the Project's greenhouse gas emissions calculations.

ES.4 OPERATIONAL-SOURCE MITIGATION MEASURES

Mitigation measures are recommended to reduce the project's overall emissions of greenhouse gases. An additional mitigation measure (MM GHG-11) has been added after the release of the DEIR specifically to address mobile source emissions of greenhouse gases.

MM GHG-1:

All structures shall be designed to be 20 percent more efficient than current (2016) Title 24 Standards, consistent with La Habra Climate Action Plan (CAP) Energy Reduction Measure R2- E1, New Construction Residential Energy Efficiency Requirements. Compliance with this requirement shall be achieved through incorporation of technologies listed in CAP Energy Reduction Measure R2-E1, such as installation of energy efficient appliances and lighting, as well as readily available light-colored pavements, natural shading, and other technologies.

MM GHG-2:

Electrical vehicle charging stations shall be provided within the proposed commercial and multi-family development areas (CAP Measure R2-T3). The number and location of these stations shall be approved by the City.

MM GHG-3:

Single-family detached residential dwelling units shall be designed and constructed to accommodate the installation of solar panel systems, and solar panel systems shall be offered to initial buyers as an option (CAP Measure R2-E2).

MM GHG-4:

All enclosed residential garages shall be provided with 240-volt electrical wiring suitable for installation of electrical vehicle chargers in accordance with the mandatory requirements of CalGreen and Title 24 standards.

MM GHG-5:

Multi-family detached residential structures shall have solar panel systems installed (CAP Measure R2-E2).

MM GHG-6:

Commercial structures shall be designed and constructed to accommodate the installation of solar panel systems (CAP Measure R2-E6).

MM GHG-7:

Outdoor electric outlets shall be provided in all residential and commercial development to facilitate use of electric landscape equipment (CAP Measure R2-A1).

MM GHG-8:

Commercial development shall exceed applicable City shading requirements by a minimum of 10 percent, and plant low-emission trees (CAP Measure R3-A1).

MM GHG-9:

Commercial and multi-family development shall implement sufficient measures to reduce heat gain by 50 percent (CAP Measure R3-A2).

MM GHG-10:

Project development shall comply with the California Green Building Standards Code, including but not limited to requirements to reduce indoor potable water use by 20 percent beyond the Energy Policy Act of 1992 fixture performance requirements, and to reduce outdoor potable water use by 50 percent from a mid-summer baseline average consumption through irrigation efficiency, native plant selection, and the use of recycled water and/or captured rainwater (CAP Measure R3-W1).

MM GHG-11:

The Developer shall implement a Rancho La Habra Transportation Demand Management Plan to reduce greenhouse gas emissions resulting from the Project. The Plan may include subsidies for electric vehicles, expanded transit opportunities, bikeshare, vanpooling, car-sharing, and ride-matching programs, and an electric school bus program.

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1 INTRODUCTION

This report presents the results of the greenhouse gas analysis (GHGA) prepared by Urban Crossroads, Inc., for Rancho La Habra (Project).

1.1 SITE LOCATION

The proposed Rancho La Habra Project is generally located south of Imperial Highway and east of Beach Boulevard, behind Westridge Plaza and in front of the Westridge Residential, in the City of La Habra, as shown on Exhibit 1-A. The Project site is currently occupied by the Westridge Golf Club, an existing privately-owned 18-hole golf course that includes 22,500 square feet (sf) of building floor area that encompasses a golf shop, club house, restaurant/events center.

1.2 PROJECT DESCRIPTION

The Project is proposed to include the development of 145 DU condominiums/townhomes, 277 DU single-family detached residential use, 12,000 sf of specialty grocery store use, 8,000 sf of restaurant use, 22,500 sf of recreation community center use, and a 42.1-acre passive park, as shown on Exhibit 1-B.

For the purposes of this GHGA, it is assumed that the Project will be developed in a single phase with an Opening Year of 2026.

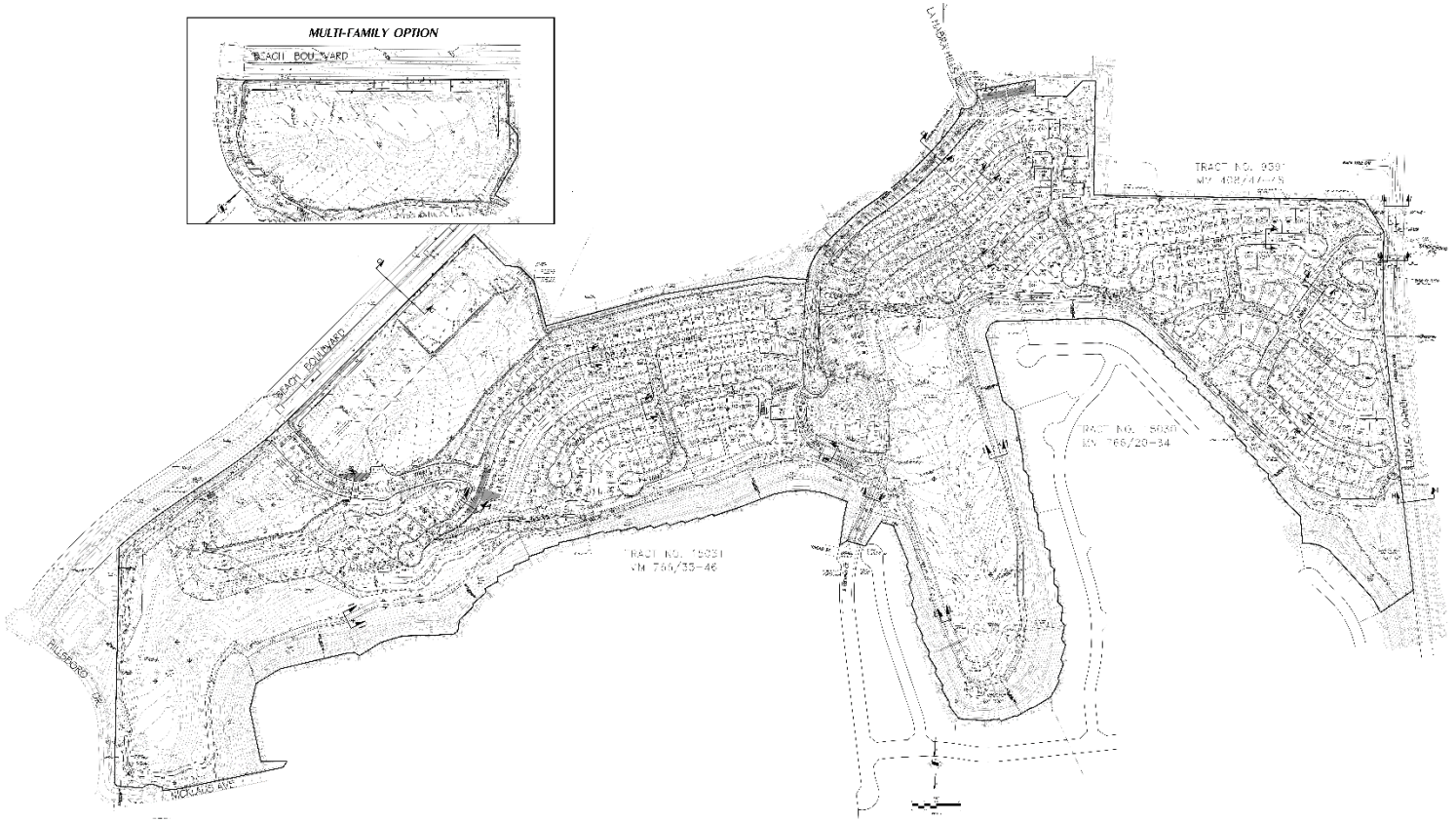
1.2.1 PROJECT SITE PLAN SCENARIOS

For the purpose of this report, the following scenarios are used to analyze potential operational impacts:

- Scenario 1 – Proposed Project: This scenario refers to the project uses as described above.
- Scenario 2 – Residential Option: The Residential Project includes the development of 49 townhomes/condominiums in place of the 12,000-sf specialty grocery store and the 8,000-sf restaurant. The Residential Option Project includes the development of 194 DU condominiums/townhomes, 277 DU single-family detached residential use, 22,500 sf of recreation community center use, and a 42.1-acre passive park.

EXHIBIT 1-A: LOCATION MAP

EXHIBIT 1-B: SITE PLAN



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2 CLIMATE CHANGE SETTING

2.1 INTRODUCTION TO GLOBAL CLIMATE CHANGE

Global Climate Change (GCC) is defined as the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide, methane, nitrous oxide, and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

An individual project like the proposed Project evaluated in this GHGA cannot generate enough GHG emissions to affect a discernible change in global climate. However, the proposed Project may participate in the potential for GCC by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on GCC. Because these changes may have serious environmental consequences, Section 3.0 will evaluate the potential for the proposed Project to have a cumulatively considerable effect upon the environment as a result of its potential contribution to the greenhouse effect.

2.2 GLOBAL CLIMATE CHANGE DEFINED

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO_2 (carbon dioxide), N_2O (nitrous oxide), CH_4 (methane), hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride. These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radioactive heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

Gases that trap heat in the atmosphere are often referred to as GHGs. GHGs are released into the atmosphere by both natural and anthropogenic (human) activity. Without the natural GHG effect, the earth's average temperature would be approximately 61° Fahrenheit cooler than it is currently. The cumulative accumulation of these gases in the earth's atmosphere is considered to be the cause for the observed increase in the earth's temperature.

2.3 GREENHOUSE GASES

GREENHOUSE GASES AND HEALTH EFFECTS

GHGs trap heat in the atmosphere, creating a GHG effect that results in global warming and climate change. Many gases demonstrate these properties and as discussed in Table 2-1. For the purposes of this analysis, emissions of CO_2, CH_4, and N_2O were evaluated (see Table 3-1 later in

this report) because these gases are the primary contributors to GCC from development projects. Although there are other substances such as fluorinated gases that also contribute to GCC, these fluorinated gases were not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

TABLE 2-1: GREENHOUSE GASES

Greenhouse Gases	Description	Sources	Health Effects
Water Vapor (H_2O)	H_20 is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered to be a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. A climate feedback is an indirect, or secondary, change, either positive or negative, that occurs within the climate system in response to a forcing mechanism. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to 'hold' more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop." The extent to which this positive	The main source of water vapor is evaporation from the oceans (approximately 85 percent). Other sources include evaporation from other water bodies, sublimation (change from solid to gas) from sea ice and snow, and transpiration from plant leaves.	There are no known direct health effects related to water vapor at this time. It should be noted however that when some pollutants react with water vapor, the reaction forms a transport mechanism for some of these pollutants to enter the human body through water vapor.

Greenhouse Gases	Description	Sources	Health Effects
	feedback loop will continue is unknown as there are also dynamics that hold the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the earth's surface and heat it up) (11).		
Carbon Dioxide (CO_2)	CO_2 is an odorless and colorless GHG. Since the industrial revolution began in the mid-1700s, the sort of human activity that increases GHG emissions has increased dramatically in scale and distribution. Data from the past 50 years suggests a corollary increase in levels and concentrations. As an example, prior to the industrial revolution, CO_2 concentrations were fairly stable at 280 parts per million (ppm). Today, they are around 370 ppm, an increase of more than 30 percent. Left unchecked, the concentration of carbon dioxide in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources (12).	Carbon dioxide is emitted from natural and manmade sources. Natural sources include: the decomposition of dead organic matter; respiration of bacteria, plants, animals and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources include: the burning of coal, oil, natural gas, and wood. Carbon dioxide is naturally removed from the air by photosynthesis, dissolution into ocean water, transfer to soils and ice caps, and chemical weathering of carbonate rocks (13).	Outdoor levels of carbon dioxide are not high enough to result in negative health effects. According to the National Institute for Occupational Safety and Health (NIOSH) high concentrations of carbon dioxide can result in health effects such as: headaches, dizziness, restlessness, difficulty breathing, sweating, increased heart rate, increased cardiac output, increased blood pressure, coma, asphyxia, and/or convulsions. It should be noted that current concentrations of carbon dioxide in the earth's atmosphere are estimated to be approximately 370 ppm, the actual reference exposure level (level at which adverse health effects typically occur) is at exposure levels of 5,000 ppm averaged over 10 hours in a 40-hour workweek and short-term reference exposure levels of 30,000

Greenhouse Gases	Description	Sources	Health Effects
			ppm averaged over a 15 minute period (14).
Methane (CH_4)	CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than carbon dioxide and its lifetime in the atmosphere is brief (10-12 years), compared to other GHGs.	Methane has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of methane. Other anthropocentric sources include fossil-fuel combustion and biomass burning (15).	Methane is extremely reactive with oxidizers, halogens, and other halogen-containing compounds. Exposure to high levels of methane can cause asphyxiation, loss of consciousness, headache and dizziness, nausea and vomiting, weakness, loss of coordination, and an increased breathing rate.
Nitrous Oxide (N_2O)	N_2O, also known as laughing gas, is a colorless GHG. Concentrations of nitrous oxide also began to rise at the beginning of the industrial revolution. In 1998, the global concentration was 314 parts per billion (ppb).	Nitrous oxide is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions)	Nitrous oxide can cause dizziness, euphoria, and sometimes slight hallucinations. In small doses, it is considered harmless. However, in some cases, heavy and extended use can cause Olney's Lesions (brain damage) (16).

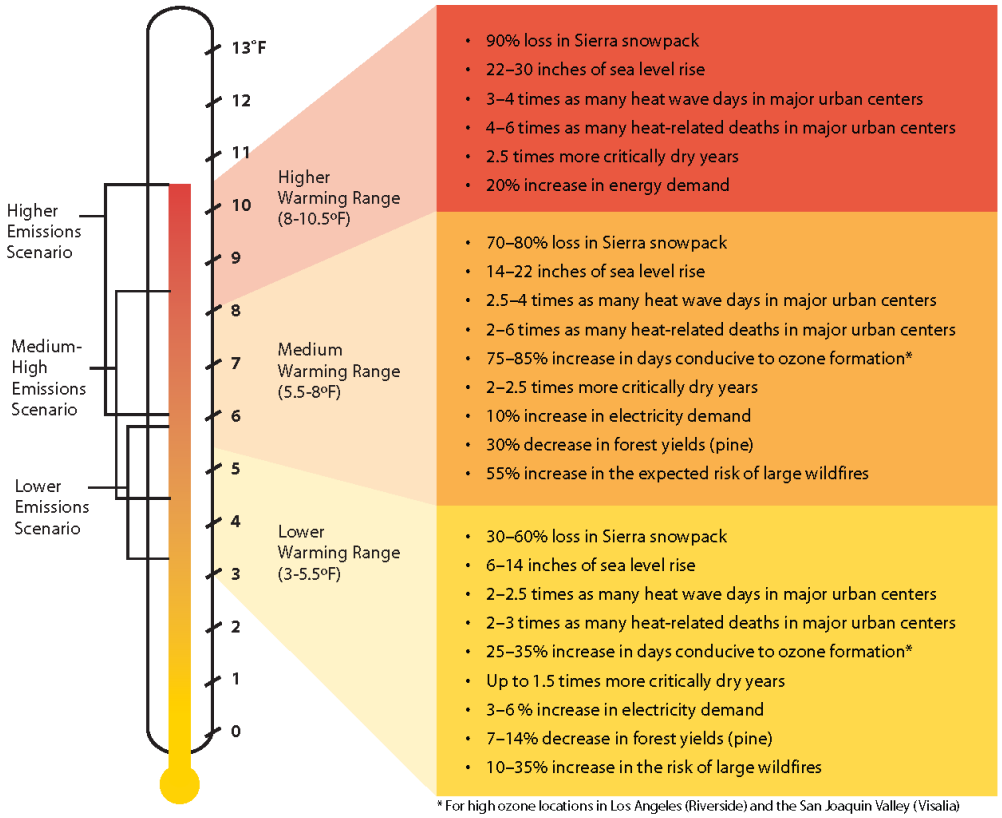
Greenhouse Gases	Description	Sources	Health Effects
		also contribute to its atmospheric load. It is used as an aerosol spray propellant, i.e., in whipped cream bottles. It is also used in potato chip bags to keep chips fresh. It is used in rocket engines and in race cars. Nitrous oxide can be transported into the stratosphere, be deposited on the earth's surface, and be converted to other compounds by chemical reaction (16).	
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble and chemically unreactive in the troposphere (the level of air at the earth's surface).	CFCs have no natural source but were first synthesized in 1928. They were used for refrigerants, aerosol propellants and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and was extremely successful, so much so that levels of the major CFCs are now remaining steady or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years (17).	In confined indoor locations, working with CFC-113 or other CFCs is thought to result in death by cardiac arrhythmia (heart frequency too high or too low) or asphyxiation.

Greenhouse Gases	Description	Sources	Health Effects
Hydrofluorocarbons (HFCs)	HFCs are synthetic, man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential (GWP). The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF_3), HFC-134a (CH_2FCF), and HFC-152a (CH_3CF_2). Prior to 1990, the only significant emissions were of HFC-23. HFC-134a emissions are increasing due to its use as a refrigerant.	HFCs are manmade for applications such as automobile air conditioners and refrigerants.	No health effects are known to result from exposure to HFCs.
Perfluorocarbons (PFCs)	PFCs have stable molecular structures and do not break down through chemical processes in the lower atmosphere. High-energy ultraviolet rays, which occur about 60 kilometers above earth's surface, are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). The EPA estimates that concentrations of CF_4 in the atmosphere are over 70 parts per trillion (ppt).	The two main sources of PFCs are primary aluminum production and semiconductor manufacture.	No health effects are known to result from exposure to PFCs.
Sulfur Hexafluoride (SF_6)	Sulfur hexafluoride (SF_6) is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP of any gas evaluated (23,900) (18). The EPA indicates that concentrations in the 1990s were about 4 ppt.	Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.	In high concentrations in confined areas, the gas presents the hazard of suffocation because it displaces the oxygen needed for breathing.

Greenhouse Gases	Description	Sources	Health Effects
Nitrogen Trifluoride (NF_3)	NF_3 is a colorless gas with a distinctly moldy odor. The World Resources Institute (WRI) indicates that NF_3 has a 100-year GWP of 17,200 (19).	NF_3 is used in industrial processes and is produced in the manufacturing of semiconductors, LCD (Liquid Crystal Display) panels, types of solar panels, and chemical lasers.	Long-term or repeated exposure may affect the liver and kidneys and may cause fluorosis (20).

The potential health effects related directly to the emissions of CO_2, CH_4, and N_2O as they relate to development projects such as the proposed Project are still being debated in the scientific community. Their cumulative effects to GCC have the potential to cause adverse effects to human health. Increases in Earth's ambient temperatures would result in more intense heat waves, causing more heat-related deaths. Scientists also purport that higher ambient temperatures would increase disease survival rates and result in more widespread disease. Climate change will likely cause shifts in weather patterns, potentially resulting in devastating droughts and food shortages in some areas (21). Exhibit 2-A presents the potential impacts of global warming (22).

EXHIBIT 2-A: SUMMARY OF PROJECTED GLOBAL WARMING IMPACT, 2070-2099 (AS COMPARED WITH 1961-1990)



Source: Barbara H. Allen-Diaz. "Climate change affects us all." *University of California, Agriculture and Natural Resources*, 2009.

2.4 GLOBAL WARMING POTENTIAL

GHGs have varying GWP values. GWP of a GHG indicates the amount of warming a gas causes over a given period of time and represents the potential of a gas to trap heat in the atmosphere. Carbon dioxide is utilized as the reference gas for GWP, and thus has a GWP of 1. Carbon dioxide equivalent (CO_2e) is a term used for describing the difference GHGs in a common unit. CO_2e signifies the amount of CO_2 which would have the equivalent GWP.

The atmospheric lifetime and GWP of selected GHGs are summarized at Table 2-2. As shown in the table below, GWP for the Second Assessment Report, the Intergovernmental Panel on Climate Change (IPCC)'s scientific and socio-economic assessment on climate change, range from 1 for carbon dioxide to 23,900 for sulfur hexafluoride and GWP for the IPCC's 5th Assessment Report range from 1 for CO_2 to 23,500 for SF_6 (23).

TABLE 2-2: GLOBAL WARMING POTENTIAL AND ATMOSPHERIC LIFETIME OF SELECT GHGS

Gas	Atmospheric Lifetime (years)	Global Warming Potential (100-year time horizon)	
		Second Assessment Report	5th Assessment Report
CO_2	See*	1	1
CH_4	12 .4	21	28
N_2O	121	310	265
HFC-23	222	11,700	12,400
HFC-134a	13.4	1,300	1,300
HFC-152a	1.5	140	138
SF_6	3,200	23,900	23,500

*As per Appendix 8.A. of IPCC's 5th Assessment Report, no single lifetime can be given.
Source: Table 2.14 of the IPCC Fourth Assessment Report, 2007

2.5 GREENHOUSE GAS EMISSIONS INVENTORIES

Global

Worldwide anthropogenic (human) GHG emissions are tracked by the IPCC for industrialized nations (referred to as Annex I) and developing nations (referred to as Non-Annex I). Human GHG emissions data for Annex I nations are available through 2017. Based on the latest available data, the sum of these emissions totaled approximately 29,216,501 Gg CO_2e[2] (24) (25) as summarized on Table 2-3.

[2] The global emissions are the sum of Annex I and non-Annex I countries, without counting Land-Use, Land-Use Change and Forestry (LULUCF). For countries without 2017 data, the UNFCCC data for the most recent year were used. United Nations Framework Convention on Climate Change, "Annex I Parties – GHG total without LULUCF," The most recent GHG emissions for China and India are from 2014.

United States

As noted in Table 2-3, the United States, as a single country, was the number two producer of GHG emissions in 2017.

TABLE 2-3: TOP GHG PRODUCING COUNTRIES AND THE EUROPEAN UNION [3]

Emitting Countries	GHG Emissions (Gg CO_2e)
China	11,911,710
United States	6,456,718
European Union (28-member countries)	4,323,163
India	3,079,810
Russian Federation	2,155,470
Japan	1,289,630
Total	**29,216,501**

Note: Gg – gigagram

State of California

California has significantly slowed the rate of growth of GHG emissions due to the implementation of energy efficiency programs as well as adoption of strict emission controls, but is still a substantial contributor to the U.S. emissions inventory total (26). The California Air Resource Board (CARB) compiles GHG inventories for the State of California. Based upon the 2018 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2016 GHG emissions period, California emitted an average 429.4 million metric tons of CO_2e ($MMTCO_2e$) per year including emissions resulting from imported electrical power in 2015 (27).

2.6 EFFECTS OF CLIMATE CHANGE IN CALIFORNIA

Public Health

Higher temperatures may increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation could increase from 25 to 35 percent under the lower warming range to 75 to 85 percent under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances, depending on wind conditions. The Climate Scenarios report indicates that large wildfires could become up to 55 percent more frequent if GHG emissions are not significantly reduced.

[3] Used http://unfccc.int data for Annex I countries. Consulted the CAIT Climate Data Explorer in https://www.climatewatchdata.org site to reference Non-Annex I countries of China and India.

In addition, under the higher warming range scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a large increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures could increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

Water Resources

A vast network of man-made reservoirs and aqueducts captures and transports water throughout the state from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snowpack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snowpack, increasing the risk of summer water shortages.

If temperatures continue to increase, more precipitation could fall as rain instead of snow, and the snow that does fall could melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90 percent. Under the lower warming range scenario, snowpack losses could be only half as large as those possible if temperatures were to rise to the higher warming range. How much snowpack could be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snowpack could pose challenges to water managers and hamper hydropower generation. It could also adversely affect winter tourism. Under the lower warming range, the ski season at lower elevations could be reduced by as much as a month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing and snowboarding.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater could degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta – a major fresh water supply.

Agriculture

Increased temperatures could cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. First, California farmers could possibly lose as much as 25 percent of the water supply needed. Although higher CO_2 levels can stimulate plant production and increase plant water-use efficiency, California's farmers could face greater water demand for crops and a less reliable water supply as temperatures rise. Crop growth and development could change, as could the intensity and frequency of pest and disease outbreaks. Rising temperatures could aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures could worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits and nuts.

In addition, continued GCC could shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion could occur in many species while range contractions may be less likely in rapidly evolving species with significant populations already established. Should range contractions occur, new or different weed species could fill the emerging gaps. Continued GCC could alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

Forests and Landscapes

GCC has the potential to intensify the current threat to forests and landscapes by increasing the risk of wildfire and altering the distribution and character of natural vegetation. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55 percent, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks will not be uniform throughout the state. In contrast, wildfires in northern California could increase by up to 90 percent due to decreased precipitation.

Moreover, continued GCC has the potential to alter natural ecosystems and biological diversity within the state. For example, alpine and subalpine ecosystems could decline by as much as 60 to 80 percent by the end of the century as a result of increasing temperatures. The productivity of the state's forests has the potential to decrease as a result of GCC.

Rising Sea Levels

Rising sea levels, more intense coastal storms, and warmer water temperatures could increasingly threaten the state's coastal regions. Under the higher warming range scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate low-lying coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats. Under the lower warming range scenario, sea level could rise 12-14 inches.

2.7 REGULATORY SETTING

INTERNATIONAL

Climate change is a global issue involving GHG emissions from all around the world; therefore, countries such as the ones discussed below have made an effort to reduce GHGs.

Intergovernmental Panel on Climate Change. In 1988, the United Nations and the World Meteorological Organization established the IPCC to assess the scientific, technical and socioeconomic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

United Nation's Framework Convention on Climate Change ("Convention"). On March 21, 1994, the U.S. joined a number of countries around the world in signing the Convention. Under the Convention, governments gather and share information on GHG emissions, national policies, and best practices; launch national strategies for addressing GHG emissions and adapting to

expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

International Climate Change Treaties. The Kyoto Protocol is an international agreement linked to the Convention. The major feature of the Kyoto Protocol is that it sets binding targets for 37 industrialized countries and the European community for reducing GHG emissions at an average of five percent against 1990 levels over the five-year period 2008–2012. The Convention (as discussed above) encouraged industrialized countries to stabilize emissions; however, the Protocol commits them to do so. Developed countries have contributed more emissions over the last 150 years; therefore, the Protocol places a heavier burden on developed nations under the principle of "common but differentiated responsibilities."

In 2001, President George W. Bush indicated that he would not submit the treaty to the U.S. Senate for ratification, which effectively ended American involvement in the Kyoto Protocol. In December 2009, international leaders met in Copenhagen to address the future of international climate change commitments post-Kyoto. No binding agreement was reached in Copenhagen; however, the Committee identified the long-term goal of limiting the maximum global average temperature increase to no more than 2° Celsius above pre-industrial levels, subject to a review in 2015. The UN Climate Change Committee held additional meetings in Durban, South Africa in November 2011; Doha, Qatar in November 2012; and Warsaw, Poland in November 2013. The meetings are gradually gaining consensus among participants on individual climate change issues.

On September 23, 2014 more than 100 Heads of State and Government and leaders from the private sector and civil society met at the Climate Summit in New York hosted by the United Nations. At the Summit, heads of government, business and civil society announced actions in areas that would have the greatest impact on reducing emissions, including climate finance, energy, transport, industry, agriculture, cities, forests, and building resilience.

Parties to the U.N. Framework Convention on Climate Change (UNFCCC) reached a landmark agreement on December 12, 2015 in Paris, charting a fundamentally new course in the two-decade-old global climate effort. Culminating a four-year negotiating round, the new treaty ends the strict differentiation between developed and developing countries that characterized earlier efforts, replacing it with a common framework that commits all countries to put forward their best efforts and to strengthen them in the years ahead. This includes, for the first time, requirements that all parties report regularly on their emissions and implementation efforts and undergo international review.

The agreement and a companion decision by parties were the key outcomes of the conference, known as the 21st session of the UNFCCC Conference of the Parties (COP) 21. Together, the Paris Agreement and the accompanying COP decision:

- Reaffirm the goal of limiting global temperature increase well below 2 degrees Celsius, while urging efforts to limit the increase to 1.5 degrees;
- Establish binding commitments by all parties to make "nationally determined contributions" (NDCs), and to pursue domestic measures aimed at achieving them;

- Commit all countries to report regularly on their emissions and "progress made in implementing and achieving" their NDCs, and to undergo international review;
- Commit all countries to submit new NDCs every five years, with the clear expectation that they will "represent a progression" beyond previous ones;
- Reaffirm the binding obligations of developed countries under the UNFCCC to support the efforts of developing countries, while for the first time encouraging voluntary contributions by developing countries too;
- Extend the current goal of mobilizing $100 billion a year in support by 2020 through 2025, with a new, higher goal to be set for the period after 2025;
- Extend a mechanism to address "loss and damage" resulting from climate change, which explicitly will not "involve or provide a basis for any liability or compensation;"
- Require parties engaging in international emissions trading to avoid "double counting;" and
- Call for a new mechanism, similar to the Clean Development Mechanism under the Kyoto Protocol, enabling emission reductions in one country to be counted toward another country's NDC (C2ES 2015a) (28).

On June 2, 2017 President Donald Trump announced his intention to withdraw from the Paris Agreement. It should be noted that under the terms of the agreement, the United Sates cannot formally announce its resignation until November 4, 2019. Subsequently, withdrawal would be effective one year after notification in 2020.

NATIONAL

Prior to the last decade, there have been no concrete federal regulations of GHGs or major planning for climate change adaptation. The following are actions regarding the federal government, GHGs, and fuel efficiency.

GHG Endangerment. In *Massachusetts v. Environmental Protection Agency* 549 U.S. 497 (2007), decided on April 2, 2007, the Supreme Court found that four GHGs, including carbon dioxide, are air pollutants subject to regulation under Section 202(a)(1) of the Clean Air Act (CAA). The Court held that the EPA Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. On December 7, 2009, the EPA Administrator signed two distinct findings regarding GHGs under section 202(a) of the CAA:

- Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs—carbon dioxide, methane, nitrous oxide, HFCs, PFCs, and sulfur hexafluoride—in the atmosphere threaten the public health and welfare of current and future generations.
- Cause or Contribute Finding: The Administrator finds that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution, which threatens public health and welfare.

These findings do not impose requirements on industry or other entities. However, this was a prerequisite for implementing GHG emissions standards for vehicles, as discussed in the section "Clean Vehicles" below. After a lengthy legal challenge, the U.S. Supreme Court declined to review an Appeals Court ruling that upheld the EPA Administrator's findings (29).

Clean Vehicles. Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the U.S. On April 1, 2010, the EPA and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA) announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the U.S.

The first phase of the national program applies to passenger cars, light-duty trucks, and medium-duty (MD) passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of carbon dioxide per mile, equivalent to 35.5 miles per gallon (mpg) if the automobile industry were to meet this carbon dioxide level solely through fuel economy improvements. Together, these standards would cut carbon dioxide emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012–2016). The EPA and the NHTSA issued final rules on a second-phase joint rulemaking establishing national standards for light-duty vehicles for model years 2017 through 2025 in August 2012 (EPA 2012c). The new standards for model years 2017 through 2025 apply to passenger cars, light-duty trucks, and MD passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of carbon dioxide (CO_2) in model year 2025, which is equivalent to 54.5 mpg if achieved exclusively through fuel economy improvements.

The EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty (HD) trucks and buses on September 15, 2011, effective November 14, 2011. For combination tractors, the agencies are proposing engine and vehicle standards that begin in the 2014 model year and achieve up to a 20 percent reduction in carbon dioxide emissions and fuel consumption by the 2018 model year. For HD pickup trucks and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10-percent reduction for gasoline vehicles and a 15 percent reduction for diesel vehicles by the 2018 model year (12 and 17 percent respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10 percent reduction in fuel consumption and carbon dioxide emissions from the 2014 to 2018 model years.

On April 2, 2018, the EPA signed the Mid-term Evaluation Final Determination, which finds that the model year 2022-2025 GHG standards are not appropriate and should be revised (30). This Final Determination serves to initiate a notice to further consider appropriate standards for model year 2022-2025 light-duty vehicles. On August 24, 2018, the EPA and NHTSA published a proposal to freeze the model year 2020 standards through model year 2026 and to revoke California's waiver under the CAA to establish more stringent standards (31).

Mandatory Reporting of GHGs. The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the EPA issued the Final Mandatory Reporting of GHGs Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the U.S. and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions are required to submit annual reports to the EPA.

New Source Review. The EPA issued a final rule on May 13, 2010, that establishes thresholds for GHGs that define when permits under the New Source Review Prevention of Significant Deterioration and Title V Operating Permit programs are required for new and existing industrial facilities. This final rule "tailors" the requirements of these CAA permitting programs to limit which facilities will be required to obtain Prevention of Significant Deterioration and Title V permits. In the preamble to the revisions to the Federal Code of Regulations, the EPA states:

> *This rulemaking is necessary because without it the Prevention of Significant Deterioration and Title V requirements would apply, as of January 2, 2011, at the 100 or 250 tons per year levels provided under the Clean Air Act, greatly increasing the number of required permits, imposing undue costs on small sources, overwhelming the resources of permitting authorities, and severely impairing the functioning of the programs. EPA is relieving these resource burdens by phasing in the applicability of these programs to GHG sources, starting with the largest GHG emitters. This rule establishes two initial steps of the phase-in. The rule also commits the agency to take certain actions on future steps addressing smaller sources but excludes certain smaller sources from Prevention of Significant Deterioration and Title V permitting for GHG emissions until at least April 30, 2016.*

The EPA estimates that facilities responsible for nearly 70 percent of the national GHG emissions from stationary sources will be subject to permitting requirements under this rule. This includes the nation's largest GHG emitters—power plants, refineries, and cement production facilities.

Standards of Performance for GHG Emissions for New Stationary Sources: Electric Utility Generating Units. As required by a settlement agreement, the EPA proposed new performance standards for emissions of carbon dioxide for new, affected, fossil fuel-fired electric utility generating units on March 27, 2012. New sources greater than 25 megawatts would be required to meet an output-based standard of 1,000 pounds of carbon dioxide per megawatt-hour, based on the performance of widely used natural gas combined cycle technology. It should be noted that on February 9, 2016 the U.S. Supreme Court issued a stay of this regulation pending litigation. Additionally, the current EPA Administrator has also signed a measure to repeal the Clean Power Plan, including the CO_2 standards.

Cap-and-Trade. Cap-and-trade refers to a policy tool where emissions are limited to a certain amount and can be traded or provides flexibility on how the emitter can comply. Successful examples in the U.S. include the Acid Rain Program and the Nitrous Oxide (NO_X) Budget Trading Program and Clean Air Interstate Rule in the northeast. There is no federal GHG cap-and-trade

program currently; however, some states have joined to create initiatives to provide a mechanism for cap-and-trade.

The Regional GHG Initiative is an effort to reduce GHGs among the states of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont. Each state caps carbon dioxide emissions from power plants, auctions carbon dioxide emission allowances, and invests the proceeds in strategic energy programs that further reduce emissions, save consumers money, create jobs, and build a clean energy economy. The Initiative began in 2008.

The Western Climate Initiative partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15 percent below 2005 levels by 2020. The partners were originally California, British Columbia, Manitoba, Ontario, and Quebec. However, Manitoba and Ontario are not currently participating. California linked with Quebec's cap-and-trade system January 1, 2014, and joint offset auctions took place in 2015 (C2ES 2015).

SmartWay Program. The SmartWay Program is a public-private initiative between the EPA, large and small trucking companies, rail carriers, logistics companies, commercial manufacturers, retailers, and other federal and state agencies. Its purpose is to improve fuel efficiency and the environmental performance (reduction of both GHG emissions and air pollution) of the goods movement supply chains. SmartWay is comprised of four components (EPA 2014):

1. SmartWay Transport Partnership: A partnership in which freight carriers and shippers commit to benchmark operations, track fuel consumption, and improve performance annually.
2. SmartWay Technology Program: A testing, verification, and designation program to help freight companies identify equipment, technologies, and strategies that save fuel and lower emissions.
3. SmartWay Vehicles: A program that ranks light-duty cars and small trucks and identifies superior environmental performers with the SmartWay logo.
4. SmartWay International Interests: Guidance and resources for countries seeking to develop freight sustainability programs modeled after SmartWay.

SmartWay effectively refers to requirements geared towards reducing fuel consumption. Most large trucking fleets driving newer vehicles are compliant with SmartWay design requirements. Moreover, over time, all HD trucks will have to comply with the CARB GHG Regulation that is designed with the SmartWay Program in mind, to reduce GHG emissions by making them more fuel-efficient. For instance, in 2015, 53 foot or longer dry vans or refrigerated trailers equipped with a combination of SmartWay-verified low-rolling resistance tires and SmartWay-verified aerodynamic devices would obtain a total of 10 percent or more fuel savings over traditional trailers.

Through the SmartWay Technology Program, the EPA has evaluated the fuel saving benefits of various devices through grants, cooperative agreements, emissions and fuel economy testing, demonstration projects and technical literature review. As a result, the EPA has determined the following types of technologies provide fuel saving and/or emission reducing benefits when used properly in their designed applications, and has verified certain products:

- Idle reduction technologies – less idling of the engine when it is not needed would reduce fuel consumption.
- Aerodynamic technologies minimize drag and improve airflow over the entire tractor-trailer vehicle. Aerodynamic technologies include gap fairings that reduce turbulence between the tractor and trailer, side skirts that minimize wind under the trailer, and rear fairings that reduce turbulence and pressure drop at the rear of the trailer.
- Low rolling resistance tires can roll longer without slowing down, thereby reducing the amount of fuel used. Rolling resistance (or rolling friction or rolling drag) is the force resisting the motion when a tire rolls on a surface. The wheel will eventually slow down because of this resistance.
- Retrofit technologies include things such as diesel particulate filters, emissions upgrades (to a higher tier), etc., which would reduce emissions.
- Federal excise tax exemptions.

CALIFORNIA

Legislative and Regulatory Actions to Reduce GHGs

The State of California has enacted a series of laws that constitute the most aggressive program to reduce GHGs of any state in the nation. These laws, and the regulations promulgated by the state expert agencies to implement these laws, are discussed in further detail below.

AB 32. The California State Legislature enacted AB 32, known as the California Global Warming Solutions Act of 2006, mandating a program for the statewide reduction of greenhouse gases across all industry sectors to 1990 levels by the year 2020. "GHGs" as defined under AB 32 include carbon dioxide, methane, N_2O, HFCs, PFCs, and sulfur hexafluoride. Since AB 32 was enacted, a seventh chemical, nitrogen trifluoride, has also been added to the list of GHGs. The CARB is the state agency charged with monitoring and regulating sources of GHGs. AB 32 states the following:

> *Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.*

CARB approved the 1990 GHG emissions level of 427 $MMTCO_2e$ on December 6, 2007 (CARB 2007). Therefore, emissions generated in California in 2020 are required to be equal to or less than 427 $MMTCO_2e$. Emissions in 2020 in a "business as usual" (BAU) scenario were estimated to be 596 $MMTCO_2e$, which do not account for reductions from AB 32 regulations (CARB 2008). At that level, a 28.4 percent reduction was required to achieve the 427 $MMTCO_2e$ 1990 inventory. In October 2010, CARB prepared an updated 2020 forecast to account for the recession and slower forecasted growth. The forecasted inventory without the benefits of adopted regulation

is now estimated at 545 $MMTCO_2e$. Therefore, under the updated forecast, a 21.7 percent reduction from BAU is required to achieve 1990 levels (CARB 2010).

Progress in Achieving AB 32 Targets and Remaining Reductions Required

The State has made steady progress in implementing AB 32 and achieving targets included in Executive Order S-3-05, which is discussed in greater detail below. That progress is reflected in updated emissions inventories prepared by CARB for 2000 through 2012 (CARB 2014a). As described below, CARB revised the 2020 BAU inventory forecast to account for new lower growth projections, which resulted in a new lower reduction from BAU to achieve the 1990 base. The previous reduction from 2020 BAU needed to achieve 1990 levels was 28.4 percent and the latest reduction from 2020 BAU is 21.7 percent.

- 2020: 545 $MMTCO_2e$ BAU (an average 21.7 percent reduction from BAU, or statewide emissions of 427 $MMTCO_2e$, needed to achieve 1990 levels)

AB 32 CARB Climate Change Scoping Plans. Pursuant to AB 32, CARB is required to adopt and periodically update a climate change scoping plan containing measures designed to reduce the State's emissions to meet statewide GHG emissions reductions targets. The first Scoping Plan was adopted by CARB in 2008. The key elements of the strategy for achieving the 2020 GHG target, as stated in the first Scoping Plan, included:

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;
- Achieving a statewide renewables energy mix of 33 percent;
- Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system;
- Establishing targets for transportation related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets;
- Adopting and implementing measures pursuant to existing State laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS); and
- Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State's long-term commitment to AB 32 implementation.

CARB approved the First Update to the Scoping Plan ("Update") in 2014. The Update showed how California continued on its path to meet the near-term 2020 GHG limit, but also set a path toward long-term, deep GHG emission reductions. The Scoping Plan Update established a broad framework for continued emissions reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050. The Scoping Plan Update did not set new targets for the State but describes a path that would achieve the long term 2050 goal of Executive Order S-05-03 for emissions to decline to 80 percent below 1990 levels by 2050 (CARB 2014).

As part of CEQA compliance for the Scoping Plan, CARB prepared a Supplemental Functional Equivalent Document (FED) in 2011. The FED included an updated 2020 BAU emissions inventory

projection based on current economic forecasts (i.e., as influenced by the economic downturn) and emission reduction measures already in place, replacing its prior 2020 BAU emissions inventory. CARB staff derived the updated emissions estimates by projecting emissions growth, by sector, from the state's average emissions from 2006–2008. The new BAU estimate includes emission reductions for the million-solar-roofs program, the AB 1493 (Pavley I) motor vehicle GHG emission standards, and the LCFS. In addition, CARB factored into the 2020 BAU inventory emissions reductions associated with 33 percent Renewables Portfolio Standard (RPS) for electricity generation. The updated BAU estimate of 507 $MMTCO_2e$ by 2020 requires a reduction of 80 $MMTCO_2e$, or a 16 percent reduction below the estimated BAU levels to return to 1990 levels (i.e., 427 $MMTCO_2e$) by 2020.

In order to provide a BAU reduction that is consistent with the original definition in the Scoping Plan and with threshold definitions used in thresholds adopted by lead agencies for CEQA purposes and many climate action plans, the updated inventory without regulations was also included in the Supplemental FED. The CARB 2020 BAU projection for GHG emissions in California was originally estimated to be 596 $MMTCO_2e$. The updated CARB 2020 BAU projection in the Supplemental FED is 545 $MMTCO_2e$. Considering the updated BAU estimate of 545 $MMTCO_2e$ by 2020, CARB estimates a 21.7 percent reduction below the estimated statewide BAU levels is necessary to return to 1990 emission levels (i.e., 427 $MMTCO_2e$) by 2020, instead of the approximate 28.4 percent BAU reduction previously reported under the original Climate Change Scoping Plan (2008).

2017 Climate Change Scoping Plan Update

In November 2017, CARB released the final 2017 Scoping Plan Update, which identifies the State's post-2020 reduction strategy. The 2017 Scoping Plan Update reflects the 2030 target of a 40 percent reduction below 1990 levels, set by Executive Order B-30-15 and codified by Senate Bill 32 (SB 32). Key programs that the proposed Second Update builds upon include the Cap-and-Trade Regulation, the LCFS, and much cleaner cars, trucks and freight movement, utilizing cleaner, renewable energy, and strategies to reduce methane emissions from agricultural and other wastes.

The 2017 Scoping Plan establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40 percent statewide decrease in 1990 levels by 2030 mandated by SB 32.

The major elements of the 2017 Scoping Plan framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing ZEV buses and trucks.
- LCFS, with an increased stringency (18 percent by 2030).
- Implementing SB 350, which expands the RPS to 50 percent RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of zero-emission vehicles (ZEV) trucks.

- Implementing the proposed Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing methane and hydroflurocarbon emissions by 40 percent and anthropogenic black carbon emissions by 50 percent by year 2030.
- Continued implementation of SB 375.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- 20 percent reduction in GHG emissions from refineries by 2030.
- Development of a Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Importantly, that the 2017 Scoping Plan acknowledges that:

> *[a]chieving net zero increases in GHG emissions, resulting in no contribution to GHG impacts, may not be feasible or appropriate for every project, however, and the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA. Lead agencies have the discretion to develop evidence-based numeric thresholds (mass emissions, per capita, or per service population) consistent with this Scoping Plan, the State's long-term GHG goals, and climate change science. To the degree a project relies on GHG mitigation measures, CARB recommends that lead agencies prioritize on-site design features that reduce emissions, especially from VMT, and direct investments in GHG reductions within the project's region that contribute potential air quality, health, and economic co-benefits locally. For example, on-site design features to be considered at the planning stage include land use and community design options that reduce VMT, promote transit oriented development, promote street design policies that prioritize transit, biking, and walking, and increase low carbon mobility choices, including improved access to viable and affordable public transportation, and active transportation opportunities.*

The 2017 Scoping Plan Update provides that California's climate strategy will require contributions from all sectors of the economy, including land use, and will include enhanced focus on zero- and near-zero-emission (ZE/NZE) vehicle technologies; continued investment in renewables, including solar roofs, wind, and other distributed generation; and greater use of low carbon fuels. With respect to the land use sector, and the development of residential and commercial uses, the 2017 Scoping Plan Update recommends integrated land conservation and development strategies and an increased focus on integrated land use planning to support livable, transit-connected communities. The Scoping Plan further stats that requirements for direct GHG reductions at refineries will further support air quality co-benefits in neighborhoods, including in disadvantaged communities historically located adjacent to these large stationary sources, as well as efforts with California's local air pollution control and air quality management districts (air districts) to tighten emission limits on a broad spectrum of industrial sources.

In addition to the statewide strategies listed above, the 2017 Scoping Plan also identifies local governments as essential partners in achieving the State's long-term GHG reduction goals and identifies local actions to reduce GHG emissions. As part of the recommended actions, CARB

recommends that local governments achieve a community-wide goal to achieve emissions of no more than 6 metric tons of CO_2e ($MTCO_2e$) or less per capita by 2030 and 2 $MTCO_2e$ or less per capita by 2050. For the purpose of analyzing the significance of GHG emissions under CEQA, the 2017 Scoping Plan provides that

> *[s]ufficiently detailed and adequately supported GHG reduction plans (including CAPs) also provide local governments with a valuable tool for streamlining project-level environmental review. Under CEQA, individual projects that comply with the strategies and actions within an adequate local CAP can streamline the project-specific GHG analysis. The California Supreme Court recently called out this provision in CEQA as allowing tiering from a geographically specific GHG reduction plan. The Court also recognized that GHG determinations in CEQA should be consistent with the statewide Scoping Plan goals, and that CEQA documents taking a goal-consistency approach may soon need to consider a project's effects on meeting the State's longer term post-2020 goals. The recommendation above that local governments develop local goals tied to the statewide per capita goals of six metric tons CO2 e by 2030 and no more than two metric tons CO2 e per capita by 2050 provides guidance on CARB's view on what would be consistent with the 2017 Scoping Plan and the State's long-term goals*

Senate Bill 32. On September 8, 2016, Governor Jerry Brown signed the Senate Bill (SB) 32 and its companion bill, Assembly Bill (AB) 197. SB 32 requires the state to reduce statewide GHG emissions to 40 percent below 1990 levels by 2030. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (10).

According to research conducted by the Lawrence Berkeley National Laboratory (LBNL) and supported by CARB, California, under its existing and proposed GHG reduction policies, is on track to meet the 2020 reduction targets under AB 32 and could achieve the 2030 goals under SB 32. The research utilized a new, validated model known as the California LBNL GHG Analysis of Policies Spreadsheet (CALGAPS), which simulates GHG and criteria pollutant emissions in California from 2010 to 2050 in accordance to existing and future GHG-reducing policies. The CALGAPS model showed that GHG emissions through 2020 could range from 317 to 415 $MTCO_2e$ per year, "indicating that existing state policies will likely allow California to meet its target [of 2020 levels under AB 32]." CALGAPS also showed that by 2030, emissions could range from 211 to 428 $MTCO_2e$ per year, indicating that "even if all modeled policies are not implemented, reductions could be sufficient to reduce emissions 40 percent below the 1990 level [of SB 32]." CALGAPS analyzed emissions through 2050 even though it did not generally account for policies that might be put in place after 2030. Although the research indicated that the emissions would not meet the State's 80 percent reduction goal by 2050, various combinations of policies could allow California's cumulative emissions to remain very low through 2050 (32) (33).

Cap-and-Trade Program. The Scoping Plan identifies a Cap-and-Trade Program as one of the key strategies for California to reduce GHG emissions. According to CARB, a cap-and-trade program will help put California on the path to meet its goal of reducing GHG emissions to 1990 levels by the year 2020 and ultimately achieving an 80 percent reduction from 1990 levels by 2050. Under

cap-and-trade, an overall limit on GHG emissions from capped sectors is established, and facilities subject to the cap will be able to trade permits to emit GHGs within the overall limit.

CARB adopted a California Cap-and-Trade Program pursuant to its authority under AB 32. See Title 17 of the California Code of Regulations (CCR) §§ 95800 to 96023). The Cap-and-Trade Program is designed to reduce GHG emissions from major sources (deemed "covered entities") by setting a firm cap on statewide GHG emissions and employing market mechanisms to achieve AB 32's emission-reduction mandate of returning to 1990 levels of emissions by 2020. The statewide cap for GHG emissions from the capped sectors (e.g., electricity generation, petroleum refining, and cement production) commenced in 2013 and will decline over time, achieving GHG emission reductions throughout the program's duration.

Covered entities that emit more than 25.000 $MTCO_2e$ per year must comply with the Cap-and-Trade Program. Triggering of the 25.000 $MTCO_2e$ per year "inclusion threshold" is measured against a subset of emissions reported and verified under the California Regulation for the Mandatory Reporting of GHG Emissions (Mandatory Reporting Rule or "MRR").

Under the Cap-and-Trade Program, CARB issues allowances equal to the total amount of allowable emissions over a given compliance period and distributes these to regulated entities. Covered entities are allocated free allowances in whole or part (if eligible), and may buy allowances at auction, purchase allowances from others, or purchase offset credits. Each covered entity with a compliance obligation is required to surrender "compliance instruments" (30) for each $MTCO_2e$ of GHG they emit. There also are requirements to surrender compliance instruments covering 30 percent of the prior year's compliance obligation by November of each year. For example, in November 2014, a covered entity was required to submit compliance instruments to cover 30 percent of its 2013 GHG emissions.

The Cap-and-Trade Program provides a firm cap, ensuring that the 2020 statewide emission limit will not be exceeded. An inherent feature of the Cap-and-Trade program is that it does not guarantee GHG emissions reductions in any discrete location or by any particular source. Rather, GHG emissions reductions are only guaranteed on an accumulative basis. As summarized by CARB in the First Scoping Plan Update:

> *The Cap-and-Trade Regulation gives companies the flexibility to trade allowances with others or take steps to cost-effectively reduce emissions at their own facilities. Companies that emit more have to turn in more allowances or other compliance instruments. Companies that can cut their GHG emissions have to turn in fewer allowances. But as the cap declines, aggregate emissions must be reduced. In other words, a covered entity theoretically could increase its GHG emissions every year and still comply with the Cap-and-Trade Program if there is a reduction in GHG emissions from other covered entities. Such a focus on aggregate GHG emissions is considered appropriate because climate change is a global phenomenon, and the effects of GHG emissions are considered cumulative (CARB 2014).*

The Cap-and-Trade Program works with other direct regulatory measures and provides an economic incentive to reduce emissions. If California's direct regulatory measures reduce GHG

emissions more than expected, then the Cap-and-Trade Program will be responsible for relatively fewer emissions reductions. If California's direct regulatory measures reduce GHG emissions less than expected, then the Cap-and-Trade Program will be responsible for relatively more emissions reductions. Thus, the Cap-and-Trade Program assures that California will meet its 2020 GHG emissions reduction mandate:

> *The Cap-and-Trade Program establishes an overall limit on GHG emissions from most of the California economy—the "capped sectors." Within the capped sectors, some of the reductions are being accomplished through direct regulations, such as improved building and appliance efficiency standards, the [Low Carbon Fuel Standard] LCFS, and the 33 percent [Renewables Portfolio Standard] RPS. Whatever additional reductions are needed to bring emissions within the cap is accomplished through price incentives posed by emissions allowance prices. Together, direct regulation and price incentives assure that emissions are brought down cost-effectively to the level of the overall cap. The Cap-and-Trade Regulation provides assurance that California's 2020 limit will be met because the regulation sets a firm limit on 85 percent of California's GHG emissions. In sum, the Cap-and-Trade Program will achieve aggregate, rather than site specific or project-level, GHG emissions reductions. Also, due to the regulatory architecture adopted by CARB in AB 32, the reductions attributed to the Cap-and-Trade Program can change over time depending on the State's emissions forecasts and the effectiveness of direct regulatory measures (CARB 2014).*

As of January 1, 2015, the Cap-and-Trade Program covered approximately 85 percent of California's GHG emissions. The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects' electricity usage are covered by the Cap-and-Trade Program.

The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and from combustion of other fossil fuels not directly covered at large sources in the Program's first compliance period. While the Cap-and-Trade Program technically covered fuel suppliers as early as 2012, they did not have a compliance obligation (i.e., they were not fully regulated) until 2015. The Cap-and-Trade Program covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported. The point of regulation for transportation fuels is when they are "supplied" (i.e., delivered into commerce). Accordingly, as with stationary source GHG emissions and GHG emissions attributable to electricity use, virtually all, if not all, of GHG emissions from CEQA projects associated with VMT are covered by the Cap-and-Trade Program (CARB 2015) (34).

In addition, the Scoping Plan differentiates between "capped" and "uncapped" strategies. "Capped" strategies are subject to the proposed cap-and-trade program. The Scoping Plan states that the inclusion of these emissions within the Program will help ensure that the year 2020 emission targets are met despite some degree of uncertainty in the emission reduction estimates for any individual measure. Implementation of the capped strategies is calculated to achieve a

sufficient amount of reductions by 2020 to achieve the emission target contained in AB 32. "Uncapped" strategies that will not be subject to the cap-and-trade emissions caps and requirements are provided as a margin of safety by accounting for additional GHG emission reductions.[4]

AB 398 was enacted in 2017 to extend and clarify the role of the Cap-and Trade Program through December 31, 2030. As part of AB 398, refinements were made to the Cap-and-Trade program to establish updated protocols and allocation of proceeds to reduce GHG emissions.

SB 375 – the Sustainable Communities and Climate Protection Act of 2008. Senate Bill (SB) 375 was signed by the Governor Schwarzenegger on September 30, 2008. The Sustainable Communities and Climate Protection Act declares that the transportation sector is the largest contributor of GHG emissions, which emits over 40 percent of the total GHG emissions in California. SB 375 states, "Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32." SB 375 does the following: it (1) requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

Concerning CEQA, SB 375, as codified in Public Resources Code Section 21159.28, states that CEQA findings for certain projects are not required to reference, describe, or discuss (1) growth inducing impacts, or (2) any project-specific or cumulative impacts from cars and light-duty truck trips generated by the project on global warming or the regional transportation network, if the project:

1. Is in an area with an approved sustainable communities strategy or an alternative planning strategy that the CARB accepts as achieving the GHG emission reduction targets.
2. Is consistent with that strategy (in designation, density, building intensity, and applicable policies).
3. Incorporates the mitigation measures required by an applicable prior environmental document.

AB 1493 Pavley Regulations and Fuel Efficiency Standards. California AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the EPA's denial of an implementation waiver. The EPA subsequently granted the requested waiver in 2009, which was upheld by the U.S. District Court for the District of Columbia in 2011.

The standards phase in during the 2009 through 2016 model years. When fully phased in, the near-term (2009–2012) standards will result in about a 22 percent reduction compared with the 2002 fleet, and the mid-term (2013–2016) standards will result in about a 30 percent reduction.

[4] On March 17, 2011, the San Francisco Superior Court issued a final decision in *Association of Irritated Residents v. California Air Resources Board* (Case No. CPF-09-509562). While the Court upheld the validity of the CARB Scoping Plan for the implementation of AB 32, the Court enjoined CARB from further rulemaking under AB 32 until CARB amends its CEQA environmental review of the Scoping Plan to address the flaws identified by the Court. On May 23, 2011, CARB filed an appeal. On June 24, 2011, the Court of Appeal granted CARB's petition staying the trail court's order pending consideration of the appeal. In the interest of informed decision-making, on June 13, 2011, CARB released the expanded alternatives analysis in a draft Supplement to the AB 32 Scoping Plan Functional Equivalent Document. The CARB Board approved the Scoping Plan and the CEQA document on August 24, 2011.

Several technologies stand out as providing significant reductions in emissions at favorable costs. These include discrete variable valve lift or camless valve actuation to optimize valve operation rather than relying on fixed valve timing and lift as has historically been done; turbocharging to boost power and allow for engine downsizing; improved multi-speed transmissions; and improved air conditioning systems that operate optimally, leak less, and/or use an alternative refrigerant.

The second phase of the implementation for the Pavley bill was incorporated into Amendments to the Low-Emission Vehicle Program referred to as LEV III or the Advanced Clean Cars program. The Advanced Clean Car program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for model years 2017 through 2025. The regulation will reduce GHGs from new cars by 34 percent from 2016 levels by 2025. The new rules will apply to gasoline and diesel-powered cars, and deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid electric vehicles and hydrogen fuel cell cars. The package will also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California.

SB 350— Clean Energy and Pollution Reduction Act of 2015. In October 2015, the Legislature approved, and Governor Brown signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for electric vehicle charging stations. Provisions for a 50 percent reduction in the use of petroleum statewide were removed from the Bill because of opposition and concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33 percent to 50 percent by 2030, with interim targets of 40 percent by 2024, and 25 percent by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.
- Reorganize the Independent System Operator to develop more regional electrify transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States (California Leginfo 2015).

EXECUTIVE ORDERS RELATED TO GHG EMISSIONS

California's Executive Branch has taken several actions to reduce GHGs through the use of Executive Orders. Although not regulatory, they set the tone for the state and guide the actions of state agencies.

Executive Order B-55-18 and SB 100. Executive Order B-55-18 and SB 100. SB 100 and Executive Order B-55-18 were signed by Governor Brown on September 10, 2018. Under the existing RPS, 25 percent of retail sales are required to be from renewable sources by December 31, 2016, 33 percent by December 31, 2020, 40 percent by December 31, 2024, 45 percent by December 31, 2027, and 50 percent by December 31, 2030. SB 100 raises California's RPS requirement to 50

percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours of those products sold to their retail end-use customers achieve 44 percent of retail sales by December 31, 2024, 52 percent by December 31, 2027, and 60 percent by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California Environmental Protection Agency (CalEPA), the Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

Executive Order S-3-05. Former California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S-3-05, the following reduction targets for GHG emissions:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

The State has achieved the Executive Order S-3-05 target for 2010 of reducing GHG emissions to 2000 levels, and as discussed above, is expected to meet the statewide GHG emissions reduction target for 2020The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Executive Order S-01-07 – Low Carbon Fuel Standard. The Governor signed Executive Order S-01-07 on January 18, 2007. The order mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. In particular, the Executive Order established a LCFS and directed the Secretary for Environmental Protection to coordinate the actions of the CEC, the CARB, the University of California, and other agencies to develop and propose protocols for measuring the "life-cycle carbon intensity" of transportation fuels. This analysis supporting development of the protocols was included in the State Implementation Plan for alternative fuels (State Alternative Fuels Plan adopted by CEC on December 24, 2007) and was submitted to CARB for consideration as an "early action" item under AB 32. The CARB adopted the LCFS on April 23, 2009.

The LCFS was challenged in the U.S. District Court in Fresno in 2011. The court's ruling issued on December 29, 2011, included a preliminary injunction against CARB's implementation of the rule. The Ninth Circuit Court of Appeals stayed the injunction on April 23, 2012, pending final ruling on appeal, allowing CARB to continue to implement and enforce the regulation. The Ninth Circuit Court's decision, filed September 18, 2013, vacated the preliminary injunction. In essence, the court held that LCFS adopted by CARB were not in conflict with federal law. On August 8, 2013, the Fifth District Court of Appeal (California) ruled CARB failed to comply with CEQA and the Administrative Procedure Act (APA) when adopting regulations for LCFS. In a partially published opinion, the Court of Appeal reversed the trial court's judgment and directed issuance of a writ

of mandate setting aside Resolution 09-31 and two executive orders of CARB approving LCFS regulations promulgated to reduce GHG emissions. However, the court tailored its remedy to protect the public interest by allowing the LCFS regulations to remain operative while CARB complies with the procedural requirements it failed to satisfy.

To address the Court ruling, CARB was required to bring a new LCFS regulation to the Board for consideration in February 2015. The proposed LCFS regulation was required to contain revisions to the 2010 LCFS as well as new provisions designed to foster investments in the production of the low-carbon intensity fuels, offer additional flexibility to regulated parties, update critical technical information, simplify and streamline program operations, and enhance enforcement. On November 16, 2015 the Office of Administrative Law (OAL) approved the Final Rulemaking Package. The new LCFS regulation became effective on January 1, 2016.

Executive Order S-13-08. Executive Order S-13-08 states that "climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California's economy, to the health and welfare of its population and to its natural resources." Pursuant to the requirements in the Order, the 2009 California Climate Adaptation Strategy (CNRA 2009) was adopted, which is the ". . . first statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States." Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order B-30-15. On April 29, 2015, Governor Edmund G. Brown Jr. issued an executive order to establish a California GHG reduction target of 40 percent below 1990 levels by 2030. The Governor's executive order aligns California's GHG reduction targets with those of leading international governments ahead of the United Nations Climate Change Conference in Paris late 2015. The Order sets a new interim statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050 and directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of $MMTCO_2e$. The Order also requires the state's climate adaptation plan to be updated every three years, and for the State to continue its climate change research program, among other provisions. As with Executive Order S-3-05, this Order is not legally enforceable for local governments and the private sector. Legislation that would update AB 32 to make post 2020 targets and requirements a mandate is in process in the State Legislature.

CALIFORNIA REGULATIONS AND BUILDING CODES

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California's energy consumption relatively flat even with rapid population growth.

Title 20 Appliance Efficiency Standards. CCR, Title 20: Division 2, Chapter 4, Article 4, Sections 1601-1608: Appliance Efficiency Regulations regulates the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and

non-federally regulated appliances. 23 categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the state and those designed and sold exclusively for use in recreational vehicles or other mobile equipment (CEC 2012).

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. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. As such, the analysis herein assumes compliance with the 2019 Title 24 Standards.

The CEC indicates that the 2019 Title 24 standards may require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, update indoor and outdoor lighting 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 about 53 percent less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30 percent less energy due to lighting upgrades (35).

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 (BSC). 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. 2019 CALGreen standards are applicable to the Project and require (36):

- 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 phase 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 square feet 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 square feet. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit (5.304.3).

Commissioning. For new buildings 10,000 square feet and over, building commissioning shall b 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).

Model Water Efficient Landscape Ordinance. The Model Water Efficient Landscape Ordinance ("Ordinance") was required by AB 1881, the Water Conservation Act. The bill required local agencies to adopt a local landscape ordinance at least as effective in conserving water as the Model Ordinance by January 1, 2010. Reductions in water use of 20 percent consistent with (SBX-7-7) 2020 mandate are expected upon compliance with the ordinance. Governor Brown's Drought Executive Order of April 1, 2015 (EO B-29-15) directed Department of Water Resources (DWR) to update the Ordinance through expedited regulation. The California Water Commission approved the revised Ordinance on July 15, 2015 effective December 15, 2015. New development projects that include landscape areas of 500 sf or more are subject to the Ordinance. The update requires:

- More efficient irrigation systems;
- Incentives for graywater usage;
- Improvements in on-site stormwater capture;
- Limiting the portion of landscapes that can be planted with high water use plants; and
- Reporting requirements for local agencies.

CARB Refrigerant Management Program. CARB adopted a regulation in 2009 to reduce refrigerant GHG emissions from stationary sources through refrigerant leak detection and monitoring, leak repair, system retirement and retrofitting, reporting and recordkeeping, and proper refrigerant cylinder use, sale, and disposal. The regulation is set forth in sections 95380 to 95398 of Title 17, CCR. The rules implementing the regulation establish a limit on statewide GHG emissions from stationary facilities with refrigeration systems with more than 50 pounds of a high GWP refrigerant. The refrigerant management program is designed to (1) reduce emissions of high-GWP GHG refrigerants from leaky stationary, non-residential refrigeration equipment; (2) reduce emissions from the installation and servicing of refrigeration and air-conditioning appliances using high-GWP refrigerants; and (3) verify GHG emission reductions.

SB 97 and the CEQA Guidelines Update. SB 97 added Section 21083.05 to the Public Resources Code, which states that "On or before July 1, 2009, the Office of Planning and Research shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption" and that [o]n or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the Office of Planning and Research pursuant to subdivision (a)." SB 97 led to the addition of Sections 15064.4 (Determining the Significance of Impacts from Greenhouse Gas Emissions)

and 15183.5 (Tiering and Streamlining the Analysis of Greenhouse Gas emissions) to the State CEQA Guidelines. Section 15183.5, subdivision (b), in relevant part provides:

> *A plan for the reduction of greenhouse gas emissions, once adopted following certification of an EIR or adoption of an environmental document, may be used in the cumulative impacts analysis of later projects. An environmental document that relies on a greenhouse gas reduction plan for a cumulative impacts analysis must identify those requirements specified in the plan that apply to the project, and, if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project. If there is substantial evidence that the effects of a particular project may be cumulatively considerable notwithstanding the project's compliance with the specified requirements in the plan for the reduction of greenhouse gas emissions, an EIR must be prepared for the project.*

Section 15064.4 was amended by the Natural Resources Agency in December 28, 2018 to state:

> *(a) The determination of the significance of greenhouse gas emissions calls for a careful judgment by the lead agency consistent with the provisions in section 15064. A lead agency shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of greenhouse gas emissions resulting from a project. A lead agency shall have discretion to determine, in the context of a particular project, whether to:*
>
> *(1) Quantify greenhouse gas emissions resulting from a project; and/or*
>
> *(2) Rely on a qualitative analysis or performance based standards.*
>
> *(b) In determining the significance of a project's greenhouse gas emissions, the lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project's emissions to the effects of climate change. A project's incremental contribution may be cumulatively considerable even if it appears relatively small compared to statewide, national or global emissions. The agency's analysis should consider a timeframe that is appropriate for the project. The agency's analysis also must reasonably reflect evolving scientific knowledge and state regulatory schemes. A lead agency should consider the following factors, among others, when determining the significance of impacts from greenhouse gas emissions on the environment:*
>
> *(1) The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting;*
>
> *(2) Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.*
>
> *(3) The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions (see, e.g., section 15183.5(b)). Such requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of greenhouse gas emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable notwithstanding compliance with the adopted regulations or requirements,*

> *an EIR must be prepared for the project. In determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.*
>
> *(c) A lead agency may use a model or methodology to estimate greenhouse gas emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use* (37).

2.8 CITY OF LA HABRA CLIMATE ACTION PLAN

The City adopted a Climate Action Plan (CAP) in January 2014. The CAP was designed under the premise that the City and the community it represents are uniquely capable of addressing emissions associated with sources under the City's jurisdiction. The City's CAP acts as a plan to ensure reduction efforts are consistent with the AB 32 2020 target and that the City will be providing GHG reductions locally that will complement state efforts to reduce GHG emissions. Project consistency with the reduction measures established in the City's CAP is detailed in Section 3.0.

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3 PROJECT GREENHOUSE GAS EMISSIONS

3.1 INTRODUCTION

The Project has been evaluated to determine the total emissions of greenhouse gases.

3.2 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ANALYZE GHG 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 greenhouse gas emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (38). Accordingly, the latest version of CalEEMod™ has been used for this Project to determine greenhouse gas emissions. Output from the model runs for construction and operational activity are provided in Appendices 3.1 through 3.3. The CalEEMod model includes GHG emissions from the following source categories: construction, area, energy, mobile, waste, water.

3.2.1 LAND USES MODELED IN CALEEMOD

The Project is located on 150-acre parcel of land. As previously stated, the Project proposes to construct the following uses:

- 145 dwelling unit (DU) townhomes/condominiums
- 277 DU single-family detached homes
- 12,000 sf of specialty grocery store use
- 8,000 sf restaurant use
- 22,500 sf recreation community center use
- 42.1-acre passive park

CalEEMod does not provide an extensive selection of land use subtype categories, land uses that most closely fit the Project will be utilized. For purposes of analysis, the following land uses were modeled (39):

- 145 dwelling unit (DU) townhomes/condominiums
- 277 DU single-family detached homes
- 12,000 sf of supermarket use[5]
- 8,000 sf high turnover (sit down) restaurant use[6]

[5] CalEEMod defines supermarkets as free-standing retail stores selling a complete assortment of food: food preparation and wrapping materials; and household, cleaning items. Supermarkets may also contain the following products and services: ATMs, automobile supplies, bakeries, books and magazines, dry cleaning, floral arrangements, greeting cards, limited-service banks, photo centers, pharmacies and video rental areas.

[6] High turnover (sit down) restaurant uses consists of sit-down, full-service eating establishments with turnover rates of approximately one hour or less. This type of restaurant is usually moderately priced and frequently belongs to a restaurant chain.

- 22,500 sf health club use[7]
- 42.1-acre city park[8]

3.2.2 EMISSION FACTORS MODEL

Vehicle emissions were estimated using information generated within the 2017 version of the Emission Factor model (EMFAC) developed by the CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and 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 (40). 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 CONSTRUCTION AND OPERATIONAL LIFE-CYCLE ANALYSIS NOT REQUIRED

A full life-cycle analysis (LCA) for construction and operational activity is not included in this analysis due to the lack of consensus guidance on LCA methodology at this time (41). Life-cycle analysis (i.e., assessing economy-wide GHG emissions from the processes in manufacturing and transporting all raw materials used in the project development, infrastructure and on-going operations) depends on emission factors or econometric factors that are not well established for all processes. At this time, an LCA would be extremely speculative and thus has not been prepared.

Additionally, the SCAQMD recommends analyzing direct and indirect project GHG emissions generated within California and not life-cycle emissions because the life-cycle effects from a project could occur outside of California, might not be very well understood or documented, and would be challenging to mitigate (42). Additionally, the science to calculate life cycle emissions is not yet established or well defined; therefore, SCAQMD has not recommended, and is not requiring, life-cycle emissions analysis.

3.4 CONSTRUCTION EMISSIONS

Project construction actvities would generate CO_2 and CH_4 emissions The report *Rancho La Habra Air Quality Impact Analysis Report* (Urban Crossroads, Inc., 2019) contains detailed information regarding Project construction activities (43). As discussed in the AQIA, Construction related emissions are expected from the following construction activities:

- Demolition
- Crushing
- Site Preparation
- Mass Grading
- Precise Grading

[7] CalEEMod defines health clubs as privately-owned facilities that primarily focus on individual fitness or training. They provide exercise classes; weightlifting, fitness and gymnastics equipment; spas; locker rooms; and small restaurants or snack bars.
[8] CalEEMod defines city parks as parks that are owned and operated by a city.

- Building Construction
- Paving
- Architectural Coating

3.4.1 CONSTRUCTION DURATION

Construction is expected to commence in August 2020 and will last through August 2026. The construction schedule utilized in the analysis, shown in Table 3-1, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[9] 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 the 2026 opening year.

TABLE 3-1: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	08/03/2020	08/19/2020	13
Crushing	08/03/2020	10/09/2020	50
Site Preparation	08/20/2020	11/25/2020	70
Mass Grading	11/26/2020	06/23/2021	150
Precise Grading	03/01/2021	07/22/2021	104
Building Construction	10/01/2021	08/13/2026	1,270
Paving	10/01/2021	08/13/2026	1,270
Architectural Coating	10/01/2021	08/13/2026	1,270

Source: Construction activity based the 2026 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 3-2. Please refer to specific detailed modeling inputs/outputs contained in Appendix 3.1 of this GHGA.

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

TABLE 3-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Activity	Equipment	Number	Hours Per Day
Demolition	Excavators	1	8
	Rubber Tired Dozers	1	8
	Tractors/Loaders/Backhoes	2	8
Crushing	Crushing/Proc. Equipment	1	8
Site Preparation	Tractors/Loaders/Backhoes	2	8
Mass Grading	Rubber Tired Dozers	1	8
	Scrapers	6	8
	Tractors/Loaders/Backhoes	1	8
Precise Grading	Tractors/Loaders/Backhoes	2	8
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Source: Construction equipment based on CalEEMod defaults.

3.4.3 CONSTRUCTION EMISSIONS SUMMARY

For construction phase Project emissions, GHGs are quantified and amortized over the life of the Project. To amortize the emissions over the life of the Project, the SCAQMD recommends calculating the total GHG emissions for the construction activities, dividing it by a 30-year project life for all project's subject to CEQA, then adding that number to the annual operational phase GHG emissions (44). As such, construction emissions were amortized over a 30-year period and added to the annual operational phase GHG emissions. The amortized construction emissions are presented in Table 3-3.

TABLE 3-3: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS

Annual Construction Emissions Year	Emissions (MT/yr)
	Total CO_2e
2020	293.09
2021	1,384.55
2022	1,645.31
2023	1,610.06
2024	1,597.20
2025	1,567.16
2026	953.87
Amortized Construction Emissions ($MTCO_2e$)	**301.71**

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of CO_2, CH_4, and N_2O from the following primary sources:

- Area Source Emissions
- Energy Source Emissions (combustion emissions associated with natural gas and electricity)
- Mobile Source Emissions
- On-site Equipment Emissions
- Stationary Source Emissions
- Water Supply, Treatment, and Distribution
- Solid Waste

3.5.1 AREA SOURCE EMISSIONS

Landscape Maintenance Equipment

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

3.5.2 ENERGY SOURCE EMISSIONS

Combustion Emissions Associated with Natural Gas and Electricity

GHGs are emitted from buildings as a result of activities for which electricity and natural gas are typically used as energy sources. Combustion of any type of fuel emits CO_2 and other GHGs directly into the atmosphere; these emissions are considered direct emissions associated with a building; the building energy use emissions do not include street lighting[10]. GHGs are also emitted during the generation of electricity from fossil fuels; these emissions are considered to be indirect emissions. Unless otherwise noted, CalEEMod default parameters were used.

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 such, the analysis herein assumes compliance with the 2019 Title 24 Standards.

[10] The CalEEMod emissions inventory model does not include indirect emission related to street lighting. Indirect emissions related to street lighting are expected to be negligible and cannot be accurately quantified at this time as there is insufficient information as to the number and type of street lighting that would occur.

3.5.3 MOBILE SOURCE EMISSIONS

Vehicles

The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. Trip characteristics available from the *Rancho La Habra Traffic Impact Analysis Addendum* (Linscott, Law & Greenspan, Engineers, 2019) were utilized in this analysis (45).

3.5.4 STATIONARY SOURCE EMISSIONS

The Project specialty grocery land use may require the use of an emergency generator. For analysis purposes, it is anticipated a 500 horsepower, diesel-powered emergency generator may be in use for up to 50 hours per year. Emissions associated with stationary source emissions were calculated using the CalEEMod model. According to the CalEEMod model outputs shown in Appendix 3.2, the Project would not result in any stationary source emissions.

3.5.5 WATER SUPPLY, TREATMENT AND DISTRIBUTION

Indirect GHG emissions result from the production of electricity used to convey, treat and distribute water and wastewater. The amount of electricity required to convey, treat and distribute water depends on the volume of water as well as the sources of the water. CalEEMod default parameters were used to estimate GHG emissions associated with water supply, treatment and distribution for the Project scenario.

3.5.6 SOLID WASTE

Project land uses will result in the generation and disposal of solid waste. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. GHG emissions from landfills are associated with the anaerobic breakdown of material. GHG emissions associated with the disposal of solid waste associated with the proposed Project were calculated by the CalEEMod™ model using default parameters.

3.5.7 SERVICE POPULATION CALCULATION

For Scenario 1, a service population of 1,266 is calculated based on the City of La Habra's current average household size of 3.0 persons per dwelling unit (422 dwelling units x 3.0 persons per dwelling unit = 1,266).

For Scenario 2, a service population of 1,413 is calculated based on the City of La Habra's current average household size of 3.0 persons per dwelling unit (471 dwelling units x 3.0 persons per dwelling unit = 1,413).

3.5.8 EXISTING EMISSIONS

The Project site is currently developed with the Westridge Gold Club, an existing privately owned 18-hole golf course with an employee base of 60 persons and amenities which include 22,500 sf of building floor are that houses the golf shop, club house and restaurant/events center, and a practice facility that has a driving range with 35 tees/driving positions and putting greens. The

estimated GHG emissions are summarized on Table 3-4 for Project Buildout conditions relative to emissions that generated by the existing use. Detailed operation model outputs are presented in Appendix 3.4. The existing development emissions were subtracted from the Project operational emissions to determine the new emissions from the proposed Project.

TABLE 3-4: EXISTING GHG EMISSIONS

Emission Source	Emissions (metric tons per year)
	Total CO_2E
Existing	**867.59**

Source: CalEEMod™ model output, See Appendix 3.4 detailed model outputs.

3.6 EMISSIONS SUMMARY

Scenario 1 – Proposed Project (2026)

The net annual GHG emissions associated with the operation of the Proposed Project are estimated to be 8,095.99 $MTCO_2e$ or 6.39 $MTCO_2e$ per service population as summarized in Table 3-5 in year 2026.

TABLE 3-5: PROPOSED PROJECT (2026) PROJECT GHG EMISSIONS

Emission Source	Emissions (metric tons per year)			
	CO_2	CH_4	N_2O	Total CO_2E
Annual construction-related emissions amortized over 30 years	300.56	0.05	0.00	301.71
Area Source	98.32	8.56e-03	1.67e-03	99.03
Energy Source	1,085.98	0.05	0.02	1,092.48
Mobile Source	4,862.71	0.32	0.00	4,870.63
Stationary Source	9.52	1.33e-03	0.00	9.55
Waste	142.53	8.42	0.00	353.12
Water Usage	206.42	1.08	0.03	241.77
Vegetation	1,995.30	0.00	0.00	1,995.30
Total CO_2e (All Sources)	**8,963.58**			
Existing Total CO_2e (All Sources)	**867.59**			
Net Total CO_2e (All Sources)	**8,095.99**			
Service Population	**1,266**			
Total CO_2e /Service Population	**6.39**			

Scenario 1 – Proposed Project (2030)

The net annual GHG emissions associated with the operation of the Proposed Project are estimated to be 7,554.69 $MTCO_2e$ or 5.97 $MTCO_2e$ per service population as summarized in Table 3-6 in year 2030.

TABLE 3-6: PROPOSED PROJECT (2030) PROJECT GHG EMISSIONS

Emission Source	Emissions (metric tons per year)			
	CO_2	CH_4	N_2O	Total CO_2E
Annual construction-related emissions amortized over 30 years	300.56	0.05	0.00	301.71
Area Source	98.32	8.56e-03	1.67e-03	99.03
Energy Source	1,008.76	0.05	0.02	1,015.27
Mobile Source	4,422.83	0.29	0.00	4,430.01
Stationary Source	9.52	1.33e-03	0.00	9.55
Waste	142.53	8.42	0.00	353.12
Water Usage	182.94	1.08	0.03	218.29
Vegetation	1,995.30	0.00	0.00	1,995.30
Total CO_2e (All Sources)	**8,422.28**			
Existing Total CO_2e (All Sources)	**867.59**			
Net Total CO_2e (All Sources)	**7,554.69**			
Service Population	**1,266**			
Total CO_2e /Service Population	**5.97**			

Scenario 2 – Residential Option Project (2026)

The net annual GHG emissions associated with the operation of the Proposed Project are estimated to be 7,232.44 $MTCO_2e$ or 5.12 $MTCO_2e$ per service population as summarized in Table 3-7 in year 2026.

TABLE 3-7: RESIDENTIAL OPTION PROJECT (2026) PROJECT GHG EMISSIONS

Emission Source	Emissions (metric tons per year)			
	CO_2	CH_4	N_2O	Total CO_2E
Annual construction-related emissions amortized over 30 years	300.56	0.05	0.00	301.71
Area Source	109.73	9.55e-03	1.87e-03	110.53
Energy Source	887.70	0.05	0.01	893.02
Mobile Source	4,258.77	0.26	0.00	4,265.29
Stationary Source	9.52	1.33e-03	0.00	9.55
Waste	114.04	0.74	0.00	282.54
Water Usage	207.48	1.06	0.03	242.09
Vegetation	1,995.30	0.00	0.00	1,995.30
Total CO_2e (All Sources)	**8,100.03**			
Existing Total CO_2e (All Sources)	**867.59**			
Net Total CO_2e (All Sources)	**7,232.44**			
Service Population	**1,413**			
Total CO_2e /Service Population	**5.12**			

Scenario 2 – Residential Option Project (2030)

The net annual GHG emissions associated with the operation of the Proposed Project are estimated to be 6,785.56 $MTCO_2e$ or 4.80 $MTCO_2e$ per service population as summarized in Table 3-8 in year 2030.

TABLE 3-8: RESIDENTIAL OPTION PROJECT (2030) PROJECT GHG EMISSIONS

Emission Source	Emissions (metric tons per year)			
	CO_2	**CH_4**	**N_2O**	**Total CO_2E**
Annual construction-related emissions amortized over 30 years	300.56	0.05	0.00	301.71
Area Source	109.73	9.55e-03	1.87e-03	110.53
Energy Source	850.37	0.05	0.01	855.86
Mobile Source	3,873.22	0.24	0.00	3,879.20
Stationary Source	9.52	1.33e-03	0.00	9.55
Waste	114.04	0.74	0.00	282.54
Water Usage	183.85	1.06	0.03	218.46
Vegetation	1,995.30	0.00	0.00	1,995.30
Total CO_2e (All Sources)	**7,653.15**			
Existing Total CO_2e (All Sources)	**867.59**			
Net Total CO_2e (All Sources)	**6,785.56**			
Service Population	**1,413**			
Total CO_2e /Service Population	**4.80**			

3.7 PLAN CONSISTENCY

The Climate Change Scoping Plan (and subsequent updates to the Scoping Plan) and the La Habra Climate Action Plan were adopted by CARB and the City, respectively, to implement reductions in greenhouse gas emissions and include recommended measures that apply specifically to the land use sector. The Project's consistency with these statewide and local plans is discussed below.

2008 Scoping Plan Consistency

ARB's *Scoping Plan* identifies strategies to reduce California's greenhouse gas emissions in support of AB32 which requires the State to reduce its GHG emissions to 1990 levels by 2020. Many of the strategies identified in the Scoping Plan are not applicable at the project level, such as long-term technological improvements to reduce emissions from vehicles. Some measures are applicable and supported by the project, such as energy efficiency. Finally, while some measures are not directly applicable, the project would not conflict with their implementation. Reduction measures are grouped into 18 action categories, as follows:

1. **California Cap-and-Trade Program Linked to Western Climate Initiative Partner Jurisdictions.** Implement a broad-based California cap-and-trade program to provide a firm limit on emissions. Link the California cap–and-trade program with other Western Climate Initiative Partner programs to create a regional market system to achieve greater environmental and economic benefits for California.[11] Ensure California's program meets all applicable AB 32 requirements for market-based mechanisms.
2. **California Light-Duty Vehicle Greenhouse Gas Standards.** Implement adopted Pavley standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.
3. **Energy Efficiency.** Maximize energy efficiency building and appliance standards, and pursue additional efficiency efforts including new technologies, and new policy and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California (including both investor-owned and publicly owned utilities).
4. **Renewables Portfolio Standards.** Achieve 33 percent renewable energy mix statewide.
5. **Low Carbon Fuel Standard.** Develop and adopt the Low Carbon Fuel Standard.
6. **Regional Transportation-Related Greenhouse Gas Targets.** Develop regional greenhouse gas emissions reduction targets for passenger vehicles.
7. **Vehicle Efficiency Measures.** Implement light-duty vehicle efficiency measures.
8. **Goods Movement.** Implement adopted regulations for the use of shore power for ships at berth. Improve efficiency in goods movement activities.
9. **Million Solar Roofs Program.** Install 3,000 megawatts of solar-electric capacity under California's existing solar programs.
10. **Medium- and Heavy-Duty Vehicles.** Adopt medium- (MD) and heavy-duty (HD) vehicle efficiencies. Aerodynamic efficiency measures for HD trucks pulling trailers 53-feet or longer that include improvements in trailer aerodynamics and use of rolling resistance tires were adopted in

[11] California Air Resources Board. California GHG Emissions – Forecast (2002-2020). October 2010

2008 and went into effect in 2010.[12] Future, yet to be determined improvements, includes hybridization of MD and HD trucks.

11. **Industrial Emissions.** Require assessment of large industrial sources to determine whether individual sources within a facility can cost-effectively reduce greenhouse gas emissions and provide other pollution reduction co-benefits. Reduce greenhouse gas emissions from fugitive emissions from oil and gas extraction and gas transmission. Adopt and implement regulations to control fugitive methane emissions and reduce flaring at refineries.
12. **High Speed Rail.** Support implementation of a high-speed rail system.
13. **Green Building Strategy.** Expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings.
14. **High Global Warming Potential Gases.** Adopt measures to reduce high warming global potential gases.
15. **Recycling and Waste.** Reduce methane emissions at landfills. Increase waste diversion, composting and other beneficial uses of organic materials, and mandate commercial recycling. Move toward zero-waste.
16. **Sustainable Forests.** Preserve forest sequestration and encourage the use of forest biomass for sustainable energy generation. The 2020 target for carbon sequestration is 5 million MTCO2E/YR.
17. **Water.** Continue efficiency programs and use cleaner energy sources to move and treat water.
18. **Agriculture.** In the near-term, encourage investment in manure digesters and at the five-year Scoping Plan update determine if the program should be made mandatory by 2020.

Table 3-9 summarizes the project's consistency with the State Scoping Plan. As summarized, the project will not conflict with any of the provisions of the Scoping Plan and in fact supports seven of the action categories through energy efficiency, water conservation, recycling, and landscaping.

TABLE 3-9: 2008 SCOPING PLAN CONSISTENCY SUMMARY

Action	Supporting Measures[13]	Consistency
Cap-and-Trade Program	--	Not applicable. These programs involve capping emissions from electricity generation, industrial facilities, and broad scoped fuels. Caps do not directly affect commercial projects.
Light-Duty Vehicle Standards	T-1	Consistent. Vehicles that access the Project are required to comply with the standards and will comply with this strategy.
Energy Efficiency	E-1	Consistent. The Project will include a variety of building, water, and solid waste
	E-2	
	CR-1	

[12] California Air Resources Board. Scoping Plan Measures Implementation Timeline. October 2010

[13] Supporting measures can be found at the following link: http://www.arb.ca.gov/cc/scopingplan/2013_update/appendix_b.pdf

Action	Supporting Measures[13]	Consistency
	CR-2	efficiencies consistent with the most current CALGreen requirements.
Renewables Portfolio Standard	E-3	Consistent. Establishes the minimum statewide renewable energy mix. The Project is within the service area of Southern California Edison, which is subject to the RPS.
Low Carbon Fuel Standard	T-2	Not applicable. Establishes reduced carbon intensity of transportation fuels.
Regional Transportation-Related GHG Targets	T-3	Not applicable. This is a statewide measure and is not within the purview of this Project.
Vehicle Efficiency Measures	T-4	Not applicable. Identifies measures such as minimum tire-fuel efficiency, lower friction oil, and reduction in air conditioning use.
Goods Movement	T-5	Not applicable. Identifies measures to improve goods movement efficiencies such as advanced combustion strategies, friction reduction, waste heat recovery, and electrification of accessories. While these measures are not directly applicable to the Project, any commercial activity associated with Goods Movement would be required to comply with these measures as adopted. As such, the proposed Project would not interfere with their implementation.
	T-6	
Million Solar Roofs (MSR) Program	E-4	Consistent. The MSR program sets a goal for use of solar systems throughout the state as a whole. While the Project currently does not include solar energy generation, the building roof structure will be designed to support solar panels in the future, consistent with Title 24 requirements.
Medium- & Heavy-Duty Vehicles	T-7	Not applicable. MD and HD trucks and trailers for industrial uses are be subject to aerodynamic and hybridization requirements as established by CARB; the proposed Project would interfere with implementation of these requirements and programs.
	T-8	
Industrial Emissions	I-1	Not applicable. These measures are applicable to large industrial facilities (> 500,000 $MTCO_2e$/yr) and other intensive uses such as refineries.
	I-2	
	I-3	
	I-4	
	I-5	

Action	Supporting Measures[13]	Consistency
High Speed Rail	T-9	Not applicable. Supports increased mobility choice.
Green Building Strategy	GB-1	Consistent. The Project will include a variety of building, water, and solid waste efficiencies consistent with the current CALGreen requirements.
High Global Warming Potential Gases	H-1	Not applicable. The proposed Project are not substantial sources of high GWP emissions and will comply with any future changes in air conditioning, fire protection suppressant, and other requirements.
	H-2	
	H-3	
	H-4	
	H-5	
	H-6	
	H-7	
Recycling and Waste	RW-1	Consistent. The Project will be required recycle a minimum of 65 percent from construction activities and Project operations per State and City requirements.
	RW-2	
	RW-3	
Sustainable Forests	F-1	Consistent. The Project will increase carbon sequestration by increasing on-site trees per the project landscaping plan.
Water	W-1	Consistent. The Project will include use of low-flow fixtures and efficient landscaping per State requirements.
	W-2	
	W-3	
	W-4	
	W-5	
	W-6	
Agriculture	A-1	Not applicable. The Project is not an agricultural use.

2017 Scoping Plan Consistency

The 2017 Scoping Plan Update reflects the 2030 target of a 40 percent reduction below 1990 levels codified by SB 32. Table 3-10 summarizes the Project's consistency with the 2017 Scoping Plan. As summarized, the project will not conflict with any of the provisions of the Scoping Plan and in fact supports seven of the action categories.

TABLE 3-10: 2017 SCOPING PLAN CONSISTENCY SUMMARY[14]

Action	Responsible Parties	Consistency
Implement SB 350 by 2030		
Increase the Renewables Portfolio Standard to 50 percent of retail sales by 2030 and ensure grid reliability.	CPUC, CEC, CARB	Consistent. This measure is not directly applicable to development projects, but the proposed Project would use energy from Southern California Edison, which has committed to diversify its portfolio of

[14] Measures can be found at the following link: https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf

Action	Responsible Parties	Consistency
		energy sources by increasing energy from wind and solar sources.
Establish annual targets for statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency savings in electricity and natural gas end uses by 2030.		Consistent. Although this measure is directed towards policymakers, the proposed Project would be designed and constructed to implement energy efficiency measures for new residential and commercial developments in excess of applicable code requirements and would include several measures designed to reduce energy consumption.
Reduce GHG emissions in the electricity sector through the implementation of the above measures and other actions as modeled in Integrated Resource Planning (IRP) to meet GHG emissions reductions planning targets in the IRP process. Load-serving entities and publicly- owned utilities meet GHG emissions reductions planning targets through a combination of measures as described in IRPs.		Consistent. The proposed Project would be designed and constructed to implement the energy efficiency measures, where applicable by including several measures designed to reduce energy consumption. The proposed Project includes energy efficient field lighting and fixtures that meet the current Title 24 Standards throughout the Project Site and would be a modern development with energy efficient boilers, heaters, and air conditioning systems. The proposed Project would also be designed and constructed to implement energy efficiency measures for new residential and commercial developments in excess of applicable code requirements.
Implement Mobile Source Strategy (Cleaner Technology and Fuels)		
At least 1.5 million zero emission and plug-in hybrid light-duty electric vehicles by 2025.	CARB, California State Transportation Agency (CalSTA), Strategic Growth Council (SGC), California Department of Transportation (Caltrans), CEC, OPR, Local Agencies	Consistent. 240-volt circuits will be installed in each home to allow easy installation of electric vehicle (EV) charging in accordance with the mandatory requirements of CalGreen and Title 24 standards.
At least 4.2 million zero emission and plug-in hybrid light-duty electric vehicles by 2030.		Consistent. 240-volt circuits will be installed in each home to allow easy installation of electric vehicle (EV) charging in accordance with the mandatory requirements of CalGreen and Title 24 standards.
Further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean cars regulations.		Not applicable. This measure is not within the purview of this Project.

Action	Responsible Parties	Consistency
Medium- and Heavy-Duty GHG Phase 2.		Not applicable. This measure is not within the purview of this Project.
Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20 percent of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100 percent of new sales in 2030. Also, new natural gas buses, starting in 2018, and diesel buses, starting in 2020, meet the optional heavy-duty low-NO_X standard.		Not applicable. This measure is not within the purview of this Project. However, the Project will implement a Rancho La Habra Transportation Demand Management Plan to reduce greenhouse gas emissions resulting from the Project. The Plan may include subsidies for electric vehicles, expanded transit opportunities, bikeshare, vanpooling, car-sharing, and ride-matching programs, and an electric school bus program.
Last Mile Delivery: New regulation that would result in the use of low NO_X or cleaner engines and the deployment of increasing numbers of zero-emission trucks primarily for class 3-7 last mile delivery trucks in California. This measure assumes ZEVs comprise 2.5 percent of new Class 3–7 truck sales in local fleets starting in 2020, increasing to 10 percent in 2025 and remaining flat through 2030.		Not applicable. This Project does not include freight transport.
Further reduce VMT through continued implementation of SB 375 and regional Sustainable Communities Strategies; forthcoming statewide implementation of SB 743; and potential additional VMT reduction strategies not specified in the Mobile Source Strategy but included in the document "Potential VMT Reduction Strategies for Discussion."		Consistent. The Project will implement a Rancho La Habra Transportation Demand Management Plan to reduce greenhouse gas emissions resulting from the Project. The Plan may include subsidies for electric vehicles, expanded transit opportunities, bikeshare, vanpooling, car-sharing, and ride-matching programs, and an electric school bus program.
Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets).	CARB	Not applicable. This strategy is geared toward regulators (CARB) and does not apply to the Project.
By 2019, adjust performance measures used to select and design transportation facilities		
Harmonize project performance with emissions reductions and increase competitiveness of transit and active transportation modes (e.g. via guideline documents, funding programs, project selection, etc.).	CalSTA, SGC, OPR, CARB, Governor's Office of Business and Economic	Not applicable. Although this is directed towards CARB and Caltrans, the proposed Project would be designed to promote and support pedestrian activity on-site and in the Project Site area. The Project Site is within proximity to residential neighborhoods. Additionally, the Project will implement a Rancho La Habra

Action	Responsible Parties	Consistency
	Development (GO-Biz), California Infrastructure and Economic Development Bank (IBank), Department of Finance (DOF), California Transportation Commission (CTC), Caltrans	Transportation Demand Management Plan to reduce greenhouse gas emissions resulting from the Project. The Plan may include subsidies for electric vehicles, expanded transit opportunities, bikeshare, vanpooling, car-sharing, and ride-matching programs, and an electric school bus program.
By 2019, develop pricing policies to support low-GHG transportation (e.g. low-emission vehicle zones for heavy duty, road user, parking pricing, transit discounts).	CalSTA, Caltrans, CTC, OPR, SGC, CARB	Not applicable. Although this measure is directed towards policymakers, the Project will implement a Rancho La Habra Transportation Demand Management Plan to reduce greenhouse gas emissions resulting from the Project. The Plan may include subsidies for electric vehicles, expanded transit opportunities, bikeshare, vanpooling, car-sharing, and ride-matching programs, and an electric school bus program..
Implement California Sustainable Freight Action Plan		
Improve freight system efficiency.	CalSTA, CalEPA, CNRA, CARB, Caltrans, CEC, GO-Biz	When adopted, this measure would apply to all trucks accessing the Project site, this may include existing trucks or new trucks that are part of the statewide goods movement sector.
Deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.		Not applicable. This measure is not within the purview of this Project.
Adopt a Low Carbon Fuel Standard with a Carbon Intensity reduction of 18 percent.	CARB	LCFS, with an increased stringency (18 percent by 2030). When adopted, this measure would apply to all fuel purchased and used by the Project in the state.
Implement the Short-Lived Climate Pollutant Strategy by 2030		
40 percent reduction in methane and hydrofluorocarbon emissions below 2013 levels.	CARB, CalRecycle, CDFA, SWRCB, Local Air Districts	When adopted, the Project would be required to comply with this measure and reduce SLPS accordingly.

Action	Responsible Parties	Consistency
50 percent reduction in black carbon emissions below 2013 levels.		Not applicable. This measure is not within the purview of this Project.
By 2019, develop regulations and programs to support organic waste landfill reduction goals in the SLCP and SB 1383.	CARB, CalRecycle, CDFA SWRCB, Local Air Districts	Not applicable. This measure is not within the purview of this Project.
Implement the post-2020 Cap-and-Trade Program with declining annual caps.	CARB	Not applicable. The Project is not subject to the Cap-and-Trade Program.
By 2018, develop Integrated Natural and Working Lands Implementation Plan to secure California's land base as a net carbon sink		
Protect land from conversion through conservation easements and other incentives.	CNRA, Departments Within CDFA, CalEPA, CARB	Not applicable. This measure is not within the purview of this Project.
Increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity		Not applicable. This measure is not within the purview of this Project.
Utilize wood and agricultural products to increase the amount of carbon stored in the natural and built environments		Not applicable. This measure is not within the purview of this Project.
Establish scenario projections to serve as the foundation for the Implementation Plan		Not applicable. This measure is not within the purview of this Project.
Establish a carbon accounting framework for natural and working lands as described in SB 859 by 2018	CARB	Not applicable. This measure is not within the purview of this Project.
Implement Forest Carbon Plan	CNRA, California Department of Forestry and Fire Protection (CAL FIRE),	Not applicable. This measure is not within the purview of this Project.

Action	Responsible Parties	Consistency
	CalEPA and Departments Within	
Identify and expand funding and financing mechanisms to support GHG reductions across all sectors.	State Agencies & Local Agencies	Not applicable. This measure is not within the purview of this Project.

As shown above, the Project is consistent with 2008 Scoping Plan and the 2017 Scoping Plan Update. Further, recent studies suggest that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40 percent below 1990 levels by 2030 (32).

Consistency with the City of La Habra Climate Action Plan

The City adopted a CAP in January, 2014. The City's target is consistent with the AB 32 target and ensures that the City will be providing GHG reductions locally that will complement state efforts to reduce GHG emissions. In order to demonstrate consistency with the CAP, the Project would have to incorporate measures that address the following broad categories of GHG emissions sources: electricity use, use of fossil-fuel based generation for heating, water use, and mobiles sources. With the incorporation of mitigation measures recommended in Section 1.5, above, the Project would be consistent with the applicable reduction measures established in the City's CAP, as shown in Table 3-2.

TABLE 3-2: PROJECT CONSISTENCY WITH APPLICABLE REDUCTION MEASURES IN THE CITY OF LA HABRA'S CAP

Number	Measure	Project Consistency?
Transportation Measures		
R2-T1	Land Use Based Trips and VMT Reduction Policies	**Consistent**; The Project is a mixed-use development comprised of residential, retail, and open space land uses that would allow individuals to particulate in multiple activities at one location. Additionally, MM GHG-11 (Rancho La Habra Transportation Demand Management Plan) will further reduce Project related VMT. It should also be noted that, the Metrolink Norwalk station is within a 20-minute drive of the Project site. The Norwalk station links commuters to jobs centers in Los Angeles, Orange County, and Riverside.
R2-T2	Bicycle Infrastructure	**Consistent**; The Project would provide access to the Coyote Creek Bikeway. Furthermore, pursuant to AT 2.8 of the City General Plan, a percentage of parking spaces would be set aside in the non-residential land uses to accommodate secure bicycle parking (46).

Number	Measure	Project Consistency?
R2-T3	Electric Vehicle Incentives Program	**Consistent**; The Project would encourage the use of zero-emission vehicles and low-emission vehicles by providing infrastructure at the commercial portion of the development (i.e. electric vehicle charging stations) to accommodate these vehicles. Incentives for electric vehicles are addressed in MM GHG-2 and MM GHG-11.
R3-T1	Municipal Fleet Alternative Vehicles	**N/A**; This measure pertains to the City's efforts of replacing the municipal fleet mix with fuel efficient and alternative fuel vehicles. As such, this measure is not within purview of this Project.
Energy Reduction Measures		
R2-E1	New Construction Residential Energy Efficiency Requirements	**Consistent**; The Project would incorporate applicable energy efficient measures for residential buildings to demonstrate a minimum 20% improvement over current (2016) Title 24 Standards. For residential uses, the 2019 Title 24 Standards result in approximately 53% less energy than the 2016 Title 24 Standards they replace.
R2-E2	New Construction Residential Renewable Energy	**Consistent**; The proposed Project would construct residential dwelling units that would accommodate the installation of solar panel systems. This measure is addressed in MM GHG-3 as well as the 2019 Title 24 Requirements that the Project would be required to comply with.
R2-E3	Residential Energy Efficiency Retrofits	**N/A**; This measure pertains to existing residential development. The Project proposes new residential development. As such, this measure is not within purview of this Project.
R2-E4	Residential Renewable Energy Retrofits	**N/A**; This measure pertains to existing residential development. The Project proposes new residential development. As such, this measure is not within purview of this Project.
R2-E5	New Commercial Energy Efficiency Requirements	**Consistent**; The Project would incorporate applicable energy efficient measures for commercial buildings to demonstrate a minimum 20% improvement over current (2016) Title 24 Standards. This measure is addressed in MM GHG-1 as well as the requirements of the 2019 Title 24 standards that the Project will be required to comply with as of January 1, 2020. For non-residential uses, the 2019 Title 24 Standards result in approximately 30% less energy than the 2016 Title 24 Standards they replace.

Number	Measure	Project Consistency?
R2-E6	New Commercial/Industrial Renewable Energy	**Consistent;** The proposed Project would construct commercial development that would accommodate the installation of solar panel systems. As an alternative, this measure encourages the purchase of energy offsets.
R2-E7	Commercial/Industrial Energy Efficiency and Renewable Energy Retrofits	**N/A**; This measure pertains to existing commercial/industrial development. The Project proposes new commercial development. As such, this measure is not within purview of this Project.
R2-E8	Municipal Energy Efficiency Retrofit Projects	**N/A**; This measure pertains to existing commercial/industrial development. The Project proposes new commercial development. As such, this measure is not within purview of this Project.
R3-E1	Energy Efficient Development and Renewable Energy Deployment Facilitation and Streamlining	**N/A**; This measure pertains to the City's effort to identify and remove any regulatory and procedural barriers that would affect the implementation of green building practices and incorporation of renewable energy systems. This measure is applied at the municipal level and is therefore not applicable to this Project.
R3-E2	Energy Efficiency Training and Public Education	**N/A**; This measure would enhance the City's public education outreach program regarding energy efficiency measures and reduction programs. This measure is applied at the municipal level and is therefore not applicable to this Project.
R3-E3	Energy Efficiency and Solar Energy Financing	**N/A**; This measure is intended to facilitate the incorporation of innovating energy efficiency and renewable energy projects. This measure is applied at the municipal level and is therefore not applicable to this Project.
R3-E4	Cross-Jurisdictional Coordination	**N/A**; This measure is intended to facilitate coordination with other local governments, special districts, nonprofit, and other organizations in order to optimize energy efficiency and renewable resource development and usage. This measure is applied at the municipal level and is therefore not applicable to this Project.
R3-E5	Alternative Energy Development Plan	**N/A**; This measure would encourage the City to work with the Southern California Edison (SCE) to explore possibilities for producing energy by renewable means within the built environment. This measure is applied at the municipal level and is therefore not applicable to this Project.
Area Source Reduction Measures		
R2-A1	Electric Landscape Equipment Program	**Consistent**; This measure encourages the use of electric landscaping equipment instead of traditional

Number	Measure	Project Consistency?
		gas-powered equipment. The measure is implemented by requiring new developments to install outdoor electric outlets and require landscape maintenance of large mixed use and commercial development to use electric landscape equipment. Information regarding the City's control measure and the SCAQMD's electric lawn equipment program will be provided to the homeowner's association (HOA). This measure would also be feasible in the large turf areas (park, open space) owned and maintained by the City.
R3-A1	Expand City Tree Planning	**Consistent**; This measure expands the tree planting program and encourages that commercial and retail developments exceed the shading requirements by a minimum of 10%, plant low emission trees and encourages preservation of existing trees. The Project will comply with the City's landscaping requirements.
R3-A2	Heat Island Plan	**Consistent;** The measure promotes the use of cool roofs, cool pavements, and parking lot shading. The measure is implemented by encouraging that new developments incorporate strategies to reduce heat gain by 50%. The Project would comply with the City's landscaping requirements.
Water Reduction Measures		
R2-W1	Water Use Reduction Initiative	**Consistent**; This measure encourages the City to adopt a per capita water use reduction goal. The Project would comply with the California Green Building Standards regarding indoor and outdoor water conservation.
R3-W1	Water Efficiency Training and Education	**N/A;** This measure would facilitate coordination with local water purveyors to implement a public education program promoting water conservation. This measure is applied at the municipal level and is therefore not applicable to this Project.
Solid Waste Reduction Measures		
R2-S1	City Diversion Program	**Consistent;** The Project will comply with the City's citywide goal of solid waste reduction. Additionally, the Project will be compliant with the City's Municipal Code 15.78.040 by implementing a Waste Management Plan.
R3-S1	Encourage Increased Efficiency of the Gas to Energy System at Landfills	**N/A;** This measure pertains to the Olinda Alpha Landfill and is therefore not applicable to this Project.
R3-S2	Waste Education Program	**N/A;** This measure would enhance the City's existing

Number	Measure	Project Consistency?
		waste education program to provide public education and increased publicity regarding commercial and residential recycling. This measure is applied at the municipal level and is therefore not applicable to this Project.

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5 CERTIFICATION

The contents of this greenhouse gas study report represent an accurate depiction of the greenhouse gas impacts associated with the proposed Rancho La Habra. The information contained in this greenhouse gas 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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EDUCATION

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

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

PROFESSIONAL AFFILIATIONS

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

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

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APPENDIX 3.1:

CALEEMOD ANNUAL CONSTRUCTION EMISSIONS MODEL OUTPUTS

Rancho La Habra Project Development (Construction - Unmitigated)

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	42.10	Acre	42.10	1,833,876.00	0
Health Club	22.50	1000sqft	0.52	22,500.00	0
High Turnover (Sit Down Restaurant)	8.00	1000sqft	0.18	8,000.00	0
Condo/Townhouse	145.00	Dwelling Unit	9.06	275,500.00	435
Single Family Housing	277.00	Dwelling Unit	97.86	801,638.00	831
Supermarket	12.00	1000sqft	0.28	12,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	417.5	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor represents CO2e intensity factor. The projected 2026 RPS target is derived based on a linear trajectory to reach the 50% project RPS consistent with SB 32 and SB 350.

Land Use - Total Project Area = 150 acres; Average Condo Size = 1,900 SF; Average Single Family Home Size = 2,894 SF

Construction Phase - Construction Schedule adjusted to be consistent with the 2023 OY.

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

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

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Trips and VMT - Building Construction (BC) Worker trips based on Construction Traffic Impacts; BC vendor trips and architectural coating worker trips decreased proportional to the proportional decrease in BC worker trips

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Woodstoves - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Rancho La Habra Project Development (Construction - Unmitigated) - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	13.00
tblConstructionPhase	NumDays	310.00	50.00
tblConstructionPhase	NumDays	120.00	70.00
tblConstructionPhase	NumDays	310.00	150.00
tblConstructionPhase	NumDays	310.00	104.00
tblConstructionPhase	NumDays	3,100.00	1,270.00
tblConstructionPhase	NumDays	220.00	1,270.00
tblConstructionPhase	NumDays	220.00	1,270.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	8.68	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24E	25.23	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
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tblEnergyUse	T24E	172.41	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	8.71	0.00

tblEnergyUse	T24E	253.73	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24NG	12,129.63	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	20,288.91	0.00
tblEnergyUse	T24NG	9.95	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	123.25	0.00
tblFireplaces	NumberGas	235.45	0.00
tblFireplaces	NumberNoFireplace	14.50	0.00
tblFireplaces	NumberNoFireplace	27.70	0.00
tblFireplaces	NumberWood	7.25	0.00
tblFireplaces	NumberWood	13.85	0.00
tblGrading	MaterialImported	0.00	15,000.00
tblLandUse	LandUseSquareFeet	145,000.00	275,500.00
tblLandUse	LandUseSquareFeet	498,600.00	801,638.00
tblLandUse	LotAcreage	89.94	97.86
tblLandUse	Population	415.00	435.00
tblLandUse	Population	792.00	831.00
tblOffRoadEquipment	HorsePower	367.00	585.00
tblOffRoadEquipment	HorsePower	85.00	200.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	417.5
tblSolidWaste	SolidWasteGenerationRate	3.62	0.00
tblSolidWaste	SolidWasteGenerationRate	66.70	0.00
tblSolidWaste	SolidWasteGenerationRate	128.25	0.00
tblSolidWaste	SolidWasteGenerationRate	95.20	0.00
tblSolidWaste	SolidWasteGenerationRate	340.71	0.00

tblSolidWaste	SolidWasteGenerationRate	67.68	0.00
tblTripsAndVMT	VendorTripNumber	353.00	143.00
tblTripsAndVMT	WorkerTripNumber	991.00	400.00
tblTripsAndVMT	WorkerTripNumber	198.00	80.00
tblVehicleEF	HHD	0.39	0.03
tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	7.1096e-007
tblVehicleEF	HHD	1.40	6.05
tblVehicleEF	HHD	1.30	0.68
tblVehicleEF	HHD	4.46	9.9764e-003
tblVehicleEF	HHD	3,712.33	976.34
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.24	5.17
tblVehicleEF	HHD	1.64	2.36
tblVehicleEF	HHD	8.2750e-003	2.6957e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	7.9170e-003	2.5791e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1800e-004	2.5844e-006
tblVehicleEF	HHD	4.7610e-003	1.0888e-004

tblVehicleEF	HHD	0.33	0.40
tblVehicleEF	HHD	9.2000e-005	1.8835e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.4000e-004	4.8309e-004
tblVehicleEF	HHD	0.08	3.7172e-006
tblVehicleEF	HHD	0.03	8.8967e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1700e-004	7.5037e-007
tblVehicleEF	HHD	1.1800e-004	2.5844e-006
tblVehicleEF	HHD	4.7610e-003	1.0888e-004
tblVehicleEF	HHD	0.41	0.47
tblVehicleEF	HHD	9.2000e-005	1.8835e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.4000e-004	4.8309e-004
tblVehicleEF	HHD	0.09	4.0699e-006
tblVehicleEF	HHD	0.37	0.03
tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	6.8287e-007
tblVehicleEF	HHD	1.02	5.97
tblVehicleEF	HHD	1.31	0.68
tblVehicleEF	HHD	4.25	9.5082e-003
tblVehicleEF	HHD	3,932.88	965.32
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.63	4.94
tblVehicleEF	HHD	1.55	2.24
tblVehicleEF	HHD	6.9760e-003	2.3520e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	6.6740e-003	2.2503e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.6800e-004	3.7475e-006
tblVehicleEF	HHD	4.8570e-003	1.1087e-004
tblVehicleEF	HHD	0.32	0.42
tblVehicleEF	HHD	1.2600e-004	2.7063e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.2300e-004	4.7071e-004
tblVehicleEF	HHD	0.08	3.5798e-006
tblVehicleEF	HHD	0.03	8.7940e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1400e-004	7.4302e-007
tblVehicleEF	HHD	1.6800e-004	3.7475e-006
tblVehicleEF	HHD	4.8570e-003	1.1087e-004
tblVehicleEF	HHD	0.39	0.49
tblVehicleEF	HHD	1.2600e-004	2.7063e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.2300e-004	4.7071e-004
tblVehicleEF	HHD	0.09	3.9195e-006
tblVehicleEF	HHD	0.42	0.02

tblVehicleEF	HHD	0.17	8.7798e-004
tblVehicleEF	HHD	0.06	7.1763e-007
tblVehicleEF	HHD	1.93	5.97
tblVehicleEF	HHD	1.30	0.21
tblVehicleEF	HHD	4.50	0.01
tblVehicleEF	HHD	3,407.76	956.71
tblVehicleEF	HHD	1,567.60	1,219.26
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	11.69	5.28
tblVehicleEF	HHD	1.61	2.27
tblVehicleEF	HHD	0.01	2.8857e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	9.6330e-003	2.7609e-003
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6670e-003	8.4573e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1400e-004	2.6240e-006
tblVehicleEF	HHD	5.0300e-003	1.1860e-004
tblVehicleEF	HHD	0.36	0.37
tblVehicleEF	HHD	9.1000e-005	1.9265e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.8300e-004	5.2090e-004
tblVehicleEF	HHD	0.08	3.7490e-006

tblVehicleEF	HHD	0.03	9.0385e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1800e-004	7.5177e-007
tblVehicleEF	HHD	1.1400e-004	2.6240e-006
tblVehicleEF	HHD	5.0300e-003	1.1860e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	9.1000e-005	1.9265e-006
tblVehicleEF	HHD	0.26	0.02
tblVehicleEF	HHD	4.8300e-004	5.2090e-004
tblVehicleEF	HHD	0.09	4.1047e-006
tblVehicleEF	LDA	2.7580e-003	1.4539e-003
tblVehicleEF	LDA	2.8090e-003	0.03
tblVehicleEF	LDA	0.43	0.49
tblVehicleEF	LDA	0.72	1.76
tblVehicleEF	LDA	212.92	225.86
tblVehicleEF	LDA	47.75	46.23
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.07	0.07

tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.9380e-003	5.0900e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.1310e-003	2.2342e-003
tblVehicleEF	LDA	4.8900e-004	4.5753e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.01	7.3927e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	2.9150e-003	1.5499e-003
tblVehicleEF	LDA	2.5300e-003	0.03
tblVehicleEF	LDA	0.46	0.54
tblVehicleEF	LDA	0.63	1.52
tblVehicleEF	LDA	221.83	235.06
tblVehicleEF	LDA	47.75	45.81
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	7.3280e-003	5.3745e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.03	0.13
tblVehicleEF	LDA	2.2210e-003	2.3252e-003
tblVehicleEF	LDA	4.8800e-004	4.5329e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	7.8080e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	2.7050e-003	1.4238e-003
tblVehicleEF	LDA	2.8660e-003	0.04
tblVehicleEF	LDA	0.41	0.47
tblVehicleEF	LDA	0.74	1.81
tblVehicleEF	LDA	209.63	222.46
tblVehicleEF	LDA	47.75	46.33
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003

tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.8070e-003	4.9944e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.0980e-003	2.2006e-003
tblVehicleEF	LDA	4.9000e-004	4.5846e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	9.8910e-003	7.2532e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDT1	5.9740e-003	3.2242e-003
tblVehicleEF	LDT1	7.9960e-003	0.05
tblVehicleEF	LDT1	0.78	0.78
tblVehicleEF	LDT1	1.69	1.92
tblVehicleEF	LDT1	272.89	271.82
tblVehicleEF	LDT1	61.96	56.50
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003

tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	2.7370e-003	2.6899e-003
tblVehicleEF	LDT1	6.4900e-004	5.5911e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	6.2860e-003	3.4156e-003
tblVehicleEF	LDT1	7.1800e-003	0.04
tblVehicleEF	LDT1	0.85	0.85
tblVehicleEF	LDT1	1.46	1.66
tblVehicleEF	LDT1	283.94	281.33
tblVehicleEF	LDT1	61.96	56.01
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003

tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.10	0.20
tblVehicleEF	LDT1	2.8480e-003	2.7839e-003
tblVehicleEF	LDT1	6.4500e-004	5.5423e-004
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	5.8680e-003	3.1636e-003
tblVehicleEF	LDT1	8.1630e-003	0.05
tblVehicleEF	LDT1	0.76	0.76
tblVehicleEF	LDT1	1.74	1.98
tblVehicleEF	LDT1	268.81	268.31
tblVehicleEF	LDT1	61.96	56.61
tblVehicleEF	LDT1	0.07	0.05

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.11	0.23
tblVehicleEF	LDT1	2.6960e-003	2.6552e-003
tblVehicleEF	LDT1	6.4900e-004	5.6018e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.12	0.25
tblVehicleEF	LDT2	3.9670e-003	2.4814e-003
tblVehicleEF	LDT2	3.9510e-003	0.05
tblVehicleEF	LDT2	0.58	0.66
tblVehicleEF	LDT2	0.97	2.27
tblVehicleEF	LDT2	305.47	284.99

tblVehicleEF	LDT2	68.50	59.63
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.8490e-003	9.4619e-003
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0580e-003	2.8192e-003
tblVehicleEF	LDT2	7.0100e-004	5.9004e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	4.1900e-003	2.6377e-003
tblVehicleEF	LDT2	3.5660e-003	0.04
tblVehicleEF	LDT2	0.63	0.72

tblVehicleEF	LDT2	0.84	1.96
tblVehicleEF	LDT2	317.98	294.00
tblVehicleEF	LDT2	68.50	59.06
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	9.9749e-003
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.19
tblVehicleEF	LDT2	3.1840e-003	2.9084e-003
tblVehicleEF	LDT2	6.9900e-004	5.8443e-004
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.8920e-003	2.4323e-003

tblVehicleEF	LDT2	4.0310e-003	0.05
tblVehicleEF	LDT2	0.56	0.64
tblVehicleEF	LDT2	0.99	2.34
tblVehicleEF	LDT2	300.86	281.66
tblVehicleEF	LDT2	68.50	59.75
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.6640e-003	9.2897e-003
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0120e-003	2.7863e-003
tblVehicleEF	LDT2	7.0100e-004	5.9127e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41

tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LHD1	4.4070e-003	4.8055e-003
tblVehicleEF	LHD1	5.8690e-003	3.0275e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34
tblVehicleEF	LHD1	1.81	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.77
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.79	0.46
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003
tblVehicleEF	LHD1	0.05	0.03

tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003
tblVehicleEF	LHD1	3.1600e-004	1.0657e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.4070e-003	4.8154e-003
tblVehicleEF	LHD1	5.9560e-003	3.0669e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.49	0.35
tblVehicleEF	LHD1	1.73	0.86
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.71
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.75	0.43
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
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tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	3.1160e-003	2.3665e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0060e-003	1.5423e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.24	0.35
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9308e-003
tblVehicleEF	LHD1	3.1400e-004	1.0594e-004
tblVehicleEF	LHD1	3.1160e-003	2.3665e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
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tblVehicleEF	LHD1	0.19	0.06
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tblVehicleEF	LHD1	5.8460e-003	3.0170e-003
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tblVehicleEF	LHD1	0.14	0.18

tblVehicleEF	LHD1	0.48	0.34
tblVehicleEF	LHD1	1.82	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.54
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tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.78	0.45
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003
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tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD2	3.1600e-003	3.4118e-003
tblVehicleEF	LHD2	2.5500e-003	2.5031e-003
tblVehicleEF	LHD2	5.1240e-003	7.7083e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.00	0.59
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.32
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tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
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tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.07	0.04
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tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
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tblVehicleEF	LHD2	0.06	0.21
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tblVehicleEF	LHD2	3.1600e-003	3.4188e-003
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tblVehicleEF	LHD2	4.9820e-003	7.4668e-003
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tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	0.96	0.57
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tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.28

tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.36	0.49
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
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tblVehicleEF	LHD2	7.7500e-004	1.0231e-003
tblVehicleEF	LHD2	0.04	0.04

tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4105e-003
tblVehicleEF	LHD2	2.5450e-003	2.4983e-003
tblVehicleEF	LHD2	5.1530e-003	7.7580e-003
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tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.01	0.60
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.33
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.38	0.51
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
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tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
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tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4780e-004

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tblVehicleEF	LHD2	0.06	0.23
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tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4780e-004
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tblVehicleEF	LHD2	0.08	0.04
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tblVehicleEF	MCY	0.15	0.23
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tblVehicleEF	MCY	9.65	8.54
tblVehicleEF	MCY	179.17	214.60
tblVehicleEF	MCY	43.54	58.63
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003

tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.32	2.33
tblVehicleEF	MCY	0.57	1.70
tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.1500e-003	2.1237e-003
tblVehicleEF	MCY	6.5200e-004	5.8022e-004
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.90	2.91
tblVehicleEF	MCY	0.57	1.70
tblVehicleEF	MCY	2.18	1.93
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.03	17.19
tblVehicleEF	MCY	8.86	7.81
tblVehicleEF	MCY	179.17	213.43
tblVehicleEF	MCY	43.54	56.86
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003

tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.27	2.28
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.81	1.59
tblVehicleEF	MCY	2.1390e-003	2.1121e-003
tblVehicleEF	MCY	6.3300e-004	5.6267e-004
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.84	2.85
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.97	1.73
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	17.73	17.90
tblVehicleEF	MCY	9.78	8.67
tblVehicleEF	MCY	179.17	214.78
tblVehicleEF	MCY	43.54	58.95
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003

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tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.33	2.34
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1520e-003	2.1254e-003
tblVehicleEF	MCY	6.5500e-004	5.8338e-004
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MDV	6.8660e-003	2.9640e-003
tblVehicleEF	MDV	8.3060e-003	0.06
tblVehicleEF	MDV	0.83	0.71
tblVehicleEF	MDV	1.63	2.44
tblVehicleEF	MDV	419.30	353.65
tblVehicleEF	MDV	92.03	72.42
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.04	0.04

tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.09	0.37
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	4.1950e-003	3.4955e-003
tblVehicleEF	MDV	9.4800e-004	7.1663e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.37
tblVehicleEF	MDV	0.12	0.28
tblVehicleEF	MDV	7.2430e-003	3.1499e-003
tblVehicleEF	MDV	7.4810e-003	0.05
tblVehicleEF	MDV	0.90	0.78
tblVehicleEF	MDV	1.42	2.11
tblVehicleEF	MDV	435.95	362.92
tblVehicleEF	MDV	92.03	71.80

tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.10	0.23
tblVehicleEF	MDV	4.3620e-003	3.5872e-003
tblVehicleEF	MDV	9.4400e-004	7.1049e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.11	0.25
tblVehicleEF	MDV	6.7380e-003	2.9054e-003
tblVehicleEF	MDV	8.4750e-003	0.06
tblVehicleEF	MDV	0.80	0.69
tblVehicleEF	MDV	1.68	2.52

tblVehicleEF	MDV	413.15	350.23
tblVehicleEF	MDV	92.03	72.55
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
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tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.10	0.43
tblVehicleEF	MDV	0.11	0.26
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tblVehicleEF	MDV	9.4900e-004	7.1797e-004
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tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
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tblVehicleEF	MDV	0.13	0.29
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tblVehicleEF	MH	4.09	0.00
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tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.24	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3500e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.26	0.00

tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
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tblVehicleEF	MH	56.38	0.00
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tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
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tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.23	0.00
tblVehicleEF	MH	0.01	8.7567e-003
tblVehicleEF	MH	6.3100e-004	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.07	0.07

tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.01	3.0182e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.98	0.26
tblVehicleEF	MH	4.12	0.00
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tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08
tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
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tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.24	0.00
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tblVehicleEF	MH	0.70	0.00
tblVehicleEF	MH	0.06	0.00

tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.27	0.00
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tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	5.5000e-005	1.3080e-004
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
tblVehicleEF	MHD	6.0200e-004	9.5883e-005
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tblVehicleEF	MHD	0.04	0.02

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tblVehicleEF	MHD	6.0600e-004	3.3904e-004
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tblVehicleEF	MHD	0.25	0.05
tblVehicleEF	MHD	1.4160e-003	4.9079e-004
tblVehicleEF	MHD	0.01	9.0982e-003
tblVehicleEF	MHD	6.1100e-004	1.0774e-004
tblVehicleEF	MHD	8.3800e-004	4.4901e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.0600e-004	3.3904e-004
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.27	0.05
tblVehicleEF	MHD	0.01	4.0869e-003
tblVehicleEF	MHD	2.3200e-003	9.9519e-004
tblVehicleEF	MHD	0.04	9.5988e-003
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tblVehicleEF	MHD	0.22	0.14
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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	4.6000e-005	1.1249e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
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tblVehicleEF	MHD	0.02	0.02
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tblVehicleEF	MHD	0.24	0.05
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8320e-003	6.2526e-003
tblVehicleEF	MHD	6.5400e-004	1.0428e-004
tblVehicleEF	MHD	6.7000e-005	1.5609e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
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tblVehicleEF	MHD	0.25	0.05

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tblVehicleEF	MHD	6.1100e-004	1.0789e-004
tblVehicleEF	MHD	8.2900e-004	4.3473e-004
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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.0300e-004	3.3394e-004
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tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.27	0.05
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tblVehicleEF	OBUS	0.55	0.95
tblVehicleEF	OBUS	1.5000e-005	1.0732e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	0.03	0.05
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tblVehicleEF	OBUS	1.8370e-003	2.2633e-003
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tblVehicleEF	OBUS	0.04	0.07
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tblVehicleEF	OBUS	0.04	0.22
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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	1.7000e-005	1.1848e-004
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tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
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tblVehicleEF	OBUS	1.3260e-003	1.6532e-003

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tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	7.1700e-004	7.7840e-004
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tblVehicleEF	SBUS	1,050.26	1,039.84
tblVehicleEF	SBUS	60.45	7.22
tblVehicleEF	SBUS	6.45	3.18
tblVehicleEF	SBUS	2.88	4.33

tblVehicleEF	SBUS	4.9650e-003	3.4992e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.7500e-003	3.3478e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.43	0.05
tblVehicleEF	SBUS	0.01	3.4332e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4400e-004	7.1436e-005
tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.47	0.06

tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.2398e-003
tblVehicleEF	SBUS	0.06	8.0601e-003
tblVehicleEF	SBUS	8.68	3.67
tblVehicleEF	SBUS	0.78	0.77
tblVehicleEF	SBUS	6.64	0.98
tblVehicleEF	SBUS	1,101.09	366.34
tblVehicleEF	SBUS	1,050.26	1,039.86
tblVehicleEF	SBUS	60.45	6.87
tblVehicleEF	SBUS	6.66	3.25
tblVehicleEF	SBUS	2.72	4.08
tblVehicleEF	SBUS	4.1860e-003	2.9567e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.0050e-003	2.8288e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.01	0.06

tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.01	3.5052e-003
tblVehicleEF	SBUS	0.01	9.9764e-003
tblVehicleEF	SBUS	7.2000e-004	6.8013e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.50	0.63
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.1113e-003
tblVehicleEF	SBUS	0.07	9.0985e-003
tblVehicleEF	SBUS	8.88	3.75
tblVehicleEF	SBUS	0.77	0.75
tblVehicleEF	SBUS	8.17	1.21
tblVehicleEF	SBUS	993.88	348.22
tblVehicleEF	SBUS	1,050.26	1,039.83
tblVehicleEF	SBUS	60.45	7.25
tblVehicleEF	SBUS	6.17	3.08
tblVehicleEF	SBUS	2.83	4.25
tblVehicleEF	SBUS	6.0420e-003	4.2484e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005

tblVehicleEF	SBUS	5.7800e-003	4.0646e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.44	0.05
tblVehicleEF	SBUS	9.7890e-003	3.3340e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4600e-004	7.1764e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.48	0.06
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.68	41.12
tblVehicleEF	UBUS	10.95	1.81
tblVehicleEF	UBUS	1,771.11	2,017.13

tblVehicleEF	UBUS	140.16	19.55
tblVehicleEF	UBUS	2.86	0.45
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.88	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6000e-003	1.9349e-004
tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.97	0.11
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	6.71	41.12

tblVehicleEF	UBUS	9.70	1.61
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.20
tblVehicleEF	UBUS	2.69	0.44
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.82	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.5790e-003	1.9002e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.90	0.11
tblVehicleEF	UBUS	1.41	5.27

tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.67	41.12
tblVehicleEF	UBUS	11.17	1.85
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.62
tblVehicleEF	UBUS	2.81	0.44
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.90	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6040e-003	1.9411e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.05

tblVehicleEF	UBUS	0.98	0.11
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
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CC_TTP	72.50	0.00
tblVehicleTrips	CC_TTP	74.50	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_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_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	CW_TTP	8.50	0.00
tblVehicleTrips	CW_TTP	6.50	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00

tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	36.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	PR_TP	37.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00

tblVehicleTrips	PR_TP	34.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblWater	IndoorWaterUseRate	9,447,333.72	0.00
tblWater	IndoorWaterUseRate	1,330,720.74	0.00
tblWater	IndoorWaterUseRate	2,428,269.70	0.00
tblWater	IndoorWaterUseRate	18,047,665.10	0.00
tblWater	IndoorWaterUseRate	1,479,218.58	0.00
tblWater	OutdoorWaterUseRate	50,161,364.82	0.00
tblWater	OutdoorWaterUseRate	5,955,927.78	0.00
tblWater	OutdoorWaterUseRate	815,603.03	0.00

tblWater	OutdoorWaterUseRate	154,995.94	0.00
tblWater	OutdoorWaterUseRate	11,377,875.82	0.00
tblWater	OutdoorWaterUseRate	45,749.03	0.00
tblWoodstoves	NumberCatalytic	7.25	0.00
tblWoodstoves	NumberCatalytic	13.85	0.00
tblWoodstoves	NumberNoncatalytic	7.25	0.00
tblWoodstoves	NumberNoncatalytic	13.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2020	0.1702	1.9385	1.1203	3.2600e-003	0.6627	0.0731	0.7358	0.1136	0.0676	0.1812	0.0000	291.2500	291.2500	0.0737	0.0000	293.0930
2021	0.9444	8.1226	5.5200	0.0154	1.0923	0.3087	1.4010	0.3216	0.2850	0.6066	0.0000	1,375.9035	1,375.9035	0.3460	0.0000	1,384.5535
2022	1.4157	5.6875	6.6792	0.0180	0.8235	0.2082	1.0316	0.2214	0.1949	0.4163	0.0000	1,639.9846	1,639.9846	0.2129	0.0000	1,645.3058
2023	1.3631	4.9449	6.5095	0.0176	0.8235	0.1819	1.0053	0.2214	0.1703	0.3916	0.0000	1,604.8435	1,604.8435	0.2085	0.0000	1,610.0562
2024	1.3403	4.7204	6.4315	0.0175	0.8298	0.1640	0.9938	0.2231	0.1534	0.3765	0.0000	1,592.0044	1,592.0044	0.2081	0.0000	1,597.2057
2025	1.2998	4.4023	6.2832	0.0171	0.8266	0.1431	0.9697	0.2222	0.1339	0.3561	0.0000	1,562.0225	1,562.0225	0.2055	0.0000	1,567.1598
2026	0.7966	2.7003	3.8206	0.0104	0.5099	0.0882	0.5981	0.1371	0.0825	0.2196	0.0000	950.7142	950.7142	0.1261	0.0000	953.8656
Maximum	**1.4157**	**8.1226**	**6.6792**	**0.0180**	**1.0923**	**0.3087**	**1.4010**	**0.3216**	**0.2850**	**0.6066**	**0.0000**	**1,639.9846**	**1,639.9846**	**0.3460**	**0.0000**	**1,645.3058**

2.1 Overall Construction

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	tons/yr										MT/yr					
2020	0.1702	1.9385	1.1203	3.2600e-003	0.2740	0.0731	0.3471	0.0484	0.0676	0.1160	0.0000	291.2497	291.2497	0.0737	0.0000	293.0927
2021	0.9444	8.1226	5.5200	0.0154	0.5730	0.3087	0.8816	0.1649	0.2850	0.4499	0.0000	1,375.9023	1,375.9023	0.3460	0.0000	1,384.5522
2022	1.4157	5.6875	6.6792	0.0180	0.8235	0.2082	1.0316	0.2214	0.1949	0.4163	0.0000	1,639.9839	1,639.9839	0.2129	0.0000	1,645.3051
2023	1.3631	4.9449	6.5095	0.0176	0.8235	0.1819	1.0053	0.2214	0.1703	0.3916	0.0000	1,604.8428	1,604.8428	0.2085	0.0000	1,610.0555
2024	1.3403	4.7204	6.4315	0.0175	0.8298	0.1640	0.9938	0.2231	0.1534	0.3765	0.0000	1,592.0037	1,592.0037	0.2081	0.0000	1,597.2049
2025	1.2998	4.4023	6.2832	0.0171	0.8266	0.1431	0.9697	0.2222	0.1339	0.3561	0.0000	1,562.0218	1,562.0218	0.2055	0.0000	1,567.1590
2026	0.7966	2.7003	3.8206	0.0104	0.5099	0.0882	0.5981	0.1371	0.0825	0.2196	0.0000	950.7137	950.7137	0.1261	0.0000	953.8651
Maximum	**1.4157**	**8.1226**	**6.6792**	**0.0180**	**0.8298**	**0.3087**	**1.0316**	**0.2231**	**0.2850**	**0.4499**	**0.0000**	**1,639.9839**	**1,639.9839**	**0.3460**	**0.0000**	**1,645.3051**

	ROG	NOx	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**	**16.31**	**0.00**	**13.48**	**15.20**	**0.00**	**8.71**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**8-3-2020**	**11-2-2020**	0.4978	0.4978
2	**11-3-2020**	**2-2-2021**	2.8753	2.8753
3	**2-3-2021**	**5-2-2021**	3.6146	3.6146
4	**5-3-2021**	**8-2-2021**	2.1775	2.1775

5	**8-3-2021**	**11-2-2021**	0.7058	0.7058
6	**11-3-2021**	**2-2-2022**	1.9054	1.9054
7	**2-3-2022**	**5-2-2022**	1.7320	1.7320
8	**5-3-2022**	**8-2-2022**	1.7840	1.7840
9	**8-3-2022**	**11-2-2022**	1.7876	1.7876
10	**11-3-2022**	**2-2-2023**	1.7227	1.7227
11	**2-3-2023**	**5-2-2023**	1.5403	1.5403
12	**5-3-2023**	**8-2-2023**	1.5866	1.5866
13	**8-3-2023**	**11-2-2023**	1.5897	1.5897
14	**11-3-2023**	**2-2-2024**	1.5687	1.5687
15	**2-3-2024**	**5-2-2024**	1.4852	1.4852
16	**5-3-2024**	**8-2-2024**	1.5128	1.5128
17	**8-3-2024**	**11-2-2024**	1.5158	1.5158
18	**11-3-2024**	**2-2-2025**	1.4909	1.4909
19	**2-3-2025**	**5-2-2025**	1.3870	1.3870
20	**5-3-2025**	**8-2-2025**	1.4286	1.4286
21	**8-3-2025**	**11-2-2025**	1.4315	1.4315
22	**11-3-2025**	**2-2-2026**	1.4337	1.4337
23	**2-3-2026**	**5-2-2026**	1.3791	1.3791
24	**5-3-2026**	**8-2-2026**	1.4206	1.4206
25	**8-3-2026**	**9-30-2026**	0.1699	0.1699
		Highest	3.6146	3.6146

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	tons/yr										MT/yr					
Area	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
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	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5504**	**0.0501**	**4.3489**	**2.3000e-004**	**0.0000**	**0.0241**	**0.0241**	**0.0000**	**0.0241**	**0.0241**	**0.0000**	**7.1109**	**7.1109**	**6.8100e-003**	**0.0000**	**7.2813**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
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	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5504**	**0.0501**	**4.3489**	**2.3000e-004**	**0.0000**	**0.0241**	**0.0241**	**0.0000**	**0.0241**	**0.0241**	**0.0000**	**7.1109**	**7.1109**	**6.8100e-003**	**0.0000**	**7.2813**

	ROG	NOx	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

Rancho La Habra Project Development (Construction - Unmitigated) - Orange County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/3/2020	8/19/2020	5	13	
2	Crushing	Grading	8/3/2020	10/9/2020	5	50	
3	Site Preparation	Site Preparation	8/20/2020	11/25/2020	5	70	
4	Mass Grading	Grading	11/26/2020	6/23/2021	5	150	
5	Precise Grading	Grading	3/1/2021	7/22/2021	5	104	
6	Building Construction	Building Construction	10/1/2021	8/13/2026	5	1270	
7	Paving	Paving	10/1/2021	8/13/2026	5	1270	
8	Architectural Coating	Architectural Coating	10/1/2021	8/13/2026	5	1270	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 2,181,204; Residential Outdoor: 727,068; Non-Residential Indoor: 63,750; Non-Residential Outdoor: 21,250; 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	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Crushing	Crushing/Proc. Equipment	1	8.00	200	0.78
Crushing	Excavators	0	8.00	158	0.38
Crushing	Graders	0	8.00	187	0.41
Crushing	Rubber Tired Dozers	0	8.00	247	0.40

Crushing	Scrapers	0	8.00	367	0.48
Crushing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Mass Grading	Excavators	0	8.00	158	0.38
Mass Grading	Graders	0	8.00	187	0.41
Mass Grading	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading	Scrapers	6	8.00	585	0.48
Mass Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Precise Grading	Excavators	0	8.00	158	0.38
Precise Grading	Graders	0	8.00	187	0.41
Precise Grading	Rubber Tired Dozers	0	8.00	247	0.40
Precise Grading	Scrapers	0	8.00	367	0.48
Precise Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

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	4	10.00	0.00	747.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Crushing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading	8	20.00	0.00	1,875.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Precise Grading	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	400.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	80.00	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	tons/yr										MT/yr					
Fugitive Dust					0.0808	0.0000	0.0808	0.0122	0.0000	0.0122	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1167	0.0777	1.3000e-004		6.1000e-003	6.1000e-003		5.6100e-003	5.6100e-003	0.0000	11.3747	11.3747	3.6800e-003	0.0000	11.4667
Total	**0.0113**	**0.1167**	**0.0777**	**1.3000e-004**	**0.0808**	**6.1000e-003**	**0.0869**	**0.0122**	**5.6100e-003**	**0.0179**	**0.0000**	**11.3747**	**11.3747**	**3.6800e-003**	**0.0000**	**11.4667**

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	tons/yr										MT/yr					
Hauling	2.8500e-003	0.1060	0.0266	2.8000e-004	6.4000e-003	3.4000e-004	6.7400e-003	1.7600e-003	3.2000e-004	2.0800e-003	0.0000	28.7212	28.7212	3.0300e-003	0.0000	28.7969
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	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6176	0.6176	1.0000e-005	0.0000	0.6180
Total	**3.1000e-003**	**0.1062**	**0.0286**	**2.9000e-004**	**7.1100e-003**	**3.4000e-004**	**7.4600e-003**	**1.9500e-003**	**3.2000e-004**	**2.2700e-003**	**0.0000**	**29.3388**	**29.3388**	**3.0400e-003**	**0.0000**	**29.4148**

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	tons/yr										MT/yr					
Fugitive Dust					0.0315	0.0000	0.0315	4.7700e-003	0.0000	4.7700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1167	0.0777	1.3000e-004		6.1000e-003	6.1000e-003		5.6100e-003	5.6100e-003	0.0000	11.3747	11.3747	3.6800e-003	0.0000	11.4667
Total	**0.0113**	**0.1167**	**0.0777**	**1.3000e-004**	**0.0315**	**6.1000e-003**	**0.0376**	**4.7700e-003**	**5.6100e-003**	**0.0104**	**0.0000**	**11.3747**	**11.3747**	**3.6800e-003**	**0.0000**	**11.4667**

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	tons/yr										MT/yr					
Hauling	2.8500e-003	0.1060	0.0266	2.8000e-004	6.4000e-003	3.4000e-004	6.7400e-003	1.7600e-003	3.2000e-004	2.0800e-003	0.0000	28.7212	28.7212	3.0300e-003	0.0000	28.7969
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	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6176	0.6176	1.0000e-005	0.0000	0.6180
Total	**3.1000e-003**	**0.1062**	**0.0286**	**2.9000e-004**	**7.1100e-003**	**3.4000e-004**	**7.4600e-003**	**1.9500e-003**	**3.2000e-004**	**2.2700e-003**	**0.0000**	**29.3388**	**29.3388**	**3.0400e-003**	**0.0000**	**29.4148**

3.3 Crushing - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1385	0.0774	4.1000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	35.4619	35.4619	1.6200e-003	0.0000	35.5024
Total	**0.0199**	**0.1385**	**0.0774**	**4.1000e-004**	**0.0000**	**4.4700e-003**	**4.4700e-003**	**0.0000**	**4.4700e-003**	**4.4700e-003**	**0.0000**	**35.4619**	**35.4619**	**1.6200e-003**	**0.0000**	**35.5024**

3.3 Crushing - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	2.9000e-004	2.0000e-004	2.3200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7126	0.7126	2.0000e-005	0.0000	0.7130
Total	**2.9000e-004**	**2.0000e-004**	**2.3200e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7126**	**0.7126**	**2.0000e-005**	**0.0000**	**0.7130**

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1385	0.0774	4.1000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	35.4618	35.4618	1.6200e-003	0.0000	35.5024
Total	**0.0199**	**0.1385**	**0.0774**	**4.1000e-004**	**0.0000**	**4.4700e-003**	**4.4700e-003**	**0.0000**	**4.4700e-003**	**4.4700e-003**	**0.0000**	**35.4618**	**35.4618**	**1.6200e-003**	**0.0000**	**35.5024**

3.3 Crushing - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	2.9000e-004	2.0000e-004	2.3200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7126	0.7126	2.0000e-005	0.0000	0.7130
Total	**2.9000e-004**	**2.0000e-004**	**2.3200e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7126**	**0.7126**	**2.0000e-005**	**0.0000**	**0.7130**

3.4 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1474	0.1596	2.2000e-004		9.3200e-003	9.3200e-003		8.5700e-003	8.5700e-003	0.0000	19.0997	19.0997	6.1800e-003	0.0000	19.2541
Total	**0.0147**	**0.1474**	**0.1596**	**2.2000e-004**	**0.0000**	**9.3200e-003**	**9.3200e-003**	**0.0000**	**8.5700e-003**	**8.5700e-003**	**0.0000**	**19.0997**	**19.0997**	**6.1800e-003**	**0.0000**	**19.2541**

3.4 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	5.4200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6628	1.6628	4.0000e-005	0.0000	1.6637
Total	**6.8000e-004**	**4.8000e-004**	**5.4200e-003**	**2.0000e-005**	**1.9200e-003**	**1.0000e-005**	**1.9300e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.6628**	**1.6628**	**4.0000e-005**	**0.0000**	**1.6637**

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1474	0.1596	2.2000e-004		9.3200e-003	9.3200e-003		8.5700e-003	8.5700e-003	0.0000	19.0997	19.0997	6.1800e-003	0.0000	19.2541
Total	**0.0147**	**0.1474**	**0.1596**	**2.2000e-004**	**0.0000**	**9.3200e-003**	**9.3200e-003**	**0.0000**	**8.5700e-003**	**8.5700e-003**	**0.0000**	**19.0997**	**19.0997**	**6.1800e-003**	**0.0000**	**19.2541**

3.4 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	5.4200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6628	1.6628	4.0000e-005	0.0000	1.6637
Total	**6.8000e-004**	**4.8000e-004**	**5.4200e-003**	**2.0000e-005**	**1.9200e-003**	**1.0000e-005**	**1.9300e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.6628**	**1.6628**	**4.0000e-005**	**0.0000**	**1.6637**

3.5 Mass 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	tons/yr										MT/yr					
Fugitive Dust					0.5564	0.0000	0.5564	0.0947	0.0000	0.0947	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1180	1.3822	0.7497	2.0300e-003		0.0527	0.0527		0.0485	0.0485	0.0000	178.6333	178.6333	0.0578	0.0000	180.0776
Total	**0.1180**	**1.3822**	**0.7497**	**2.0300e-003**	**0.5564**	**0.0527**	**0.6090**	**0.0947**	**0.0485**	**0.1432**	**0.0000**	**178.6333**	**178.6333**	**0.0578**	**0.0000**	**180.0776**

3.5 Mass 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	tons/yr										MT/yr					
Hauling	1.2400e-003	0.0461	0.0116	1.2000e-004	0.0128	1.5000e-004	0.0130	3.2300e-003	1.4000e-004	3.3700e-003	0.0000	12.4958	12.4958	1.3200e-003	0.0000	12.5288
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	0.0000	0.0000
Worker	1.0100e-003	7.1000e-004	8.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4704	2.4704	6.0000e-005	0.0000	2.4718
Total	**2.2500e-003**	**0.0468**	**0.0196**	**1.5000e-004**	**0.0157**	**1.7000e-004**	**0.0158**	**3.9900e-003**	**1.6000e-004**	**4.1500e-003**	**0.0000**	**14.9663**	**14.9663**	**1.3800e-003**	**0.0000**	**15.0006**

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	tons/yr										MT/yr					
Fugitive Dust					0.2170	0.0000	0.2170	0.0369	0.0000	0.0369	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1180	1.3822	0.7497	2.0300e-003		0.0527	0.0527		0.0485	0.0485	0.0000	178.6331	178.6331	0.0578	0.0000	180.0774
Total	**0.1180**	**1.3822**	**0.7497**	**2.0300e-003**	**0.2170**	**0.0527**	**0.2697**	**0.0369**	**0.0485**	**0.0854**	**0.0000**	**178.6331**	**178.6331**	**0.0578**	**0.0000**	**180.0774**

3.5 Mass 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	tons/yr										MT/yr					
Hauling	1.2400e-003	0.0461	0.0116	1.2000e-004	0.0128	1.5000e-004	0.0130	3.2300e-003	1.4000e-004	3.3700e-003	0.0000	12.4958	12.4958	1.3200e-003	0.0000	12.5288
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	0.0000	0.0000
Worker	1.0100e-003	7.1000e-004	8.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4704	2.4704	6.0000e-005	0.0000	2.4718
Total	**2.2500e-003**	**0.0468**	**0.0196**	**1.5000e-004**	**0.0157**	**1.7000e-004**	**0.0158**	**3.9900e-003**	**1.6000e-004**	**4.1500e-003**	**0.0000**	**14.9663**	**14.9663**	**1.3800e-003**	**0.0000**	**15.0006**

3.5 Mass Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.8514	0.0000	0.8514	0.2569	0.0000	0.2569	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5379	6.1166	3.4445	9.7000e-003		0.2339	0.2339		0.2152	0.2152	0.0000	851.9650	851.9650	0.2755	0.0000	858.8536
Total	**0.5379**	**6.1166**	**3.4445**	**9.7000e-003**	**0.8514**	**0.2339**	**1.0853**	**0.2569**	**0.2152**	**0.4721**	**0.0000**	**851.9650**	**851.9650**	**0.2755**	**0.0000**	**858.8536**

3.5 Mass Grading - 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	tons/yr										MT/yr					
Hauling	5.6400e-003	0.2032	0.0553	5.8000e-004	0.0154	6.2000e-004	0.0160	4.1600e-003	6.0000e-004	4.7600e-003	0.0000	58.8648	58.8648	6.2000e-003	0.0000	59.0198
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	0.0000	0.0000
Worker	4.5400e-003	3.0500e-003	0.0356	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6200e-003	8.0000e-005	3.7000e-003	0.0000	11.3732	11.3732	2.4000e-004	0.0000	11.3792
Total	**0.0102**	**0.2062**	**0.0909**	**7.1000e-004**	**0.0290**	**7.1000e-004**	**0.0297**	**7.7800e-003**	**6.8000e-004**	**8.4600e-003**	**0.0000**	**70.2379**	**70.2379**	**6.4400e-003**	**0.0000**	**70.3991**

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	tons/yr										MT/yr					
Fugitive Dust					0.3321	0.0000	0.3321	0.1002	0.0000	0.1002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5379	6.1166	3.4445	9.7000e-003		0.2339	0.2339		0.2152	0.2152	0.0000	851.9640	851.9640	0.2755	0.0000	858.8525
Total	**0.5379**	**6.1166**	**3.4445**	**9.7000e-003**	**0.3321**	**0.2339**	**0.5659**	**0.1002**	**0.2152**	**0.3154**	**0.0000**	**851.9640**	**851.9640**	**0.2755**	**0.0000**	**858.8525**

3.5 Mass Grading - 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	tons/yr										MT/yr					
Hauling	5.6400e-003	0.2032	0.0553	5.8000e-004	0.0154	6.2000e-004	0.0160	4.1600e-003	6.0000e-004	4.7600e-003	0.0000	58.8648	58.8648	6.2000e-003	0.0000	59.0198
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	0.0000	0.0000
Worker	4.5400e-003	3.0500e-003	0.0356	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6200e-003	8.0000e-005	3.7000e-003	0.0000	11.3732	11.3732	2.4000e-004	0.0000	11.3792
Total	**0.0102**	**0.2062**	**0.0909**	**7.1000e-004**	**0.0290**	**7.1000e-004**	**0.0297**	**7.7800e-003**	**6.8000e-004**	**8.4600e-003**	**0.0000**	**70.2379**	**70.2379**	**6.4400e-003**	**0.0000**	**70.3991**

3.6 Precise Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.1972	0.2351	3.2000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	28.3891	28.3891	9.1800e-003	0.0000	28.6186
Total	**0.0195**	**0.1972**	**0.2351**	**3.2000e-004**	**0.0000**	**0.0116**	**0.0116**	**0.0000**	**0.0107**	**0.0107**	**0.0000**	**28.3891**	**28.3891**	**9.1800e-003**	**0.0000**	**28.6186**

3.6 Precise Grading - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	9.5000e-004	6.4000e-004	7.4700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3847	2.3847	5.0000e-005	0.0000	2.3860
Total	**9.5000e-004**	**6.4000e-004**	**7.4700e-003**	**3.0000e-005**	**2.8500e-003**	**2.0000e-005**	**2.8700e-003**	**7.6000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.3847**	**2.3847**	**5.0000e-005**	**0.0000**	**2.3860**

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.1972	0.2351	3.2000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	28.3891	28.3891	9.1800e-003	0.0000	28.6186
Total	**0.0195**	**0.1972**	**0.2351**	**3.2000e-004**	**0.0000**	**0.0116**	**0.0116**	**0.0000**	**0.0107**	**0.0107**	**0.0000**	**28.3891**	**28.3891**	**9.1800e-003**	**0.0000**	**28.6186**

3.6 Precise Grading - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	9.5000e-004	6.4000e-004	7.4700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3847	2.3847	5.0000e-005	0.0000	2.3860
Total	**9.5000e-004**	**6.4000e-004**	**7.4700e-003**	**3.0000e-005**	**2.8500e-003**	**2.0000e-005**	**2.8700e-003**	**7.6000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.3847**	**2.3847**	**5.0000e-005**	**0.0000**	**2.3860**

3.7 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	tons/yr										MT/yr					
Off-Road	0.0668	0.6187	0.5831	9.5000e-004		0.0338	0.0338		0.0318	0.0318	0.0000	81.9092	81.9092	0.0202	0.0000	82.4145
Total	**0.0668**	**0.6187**	**0.5831**	**9.5000e-004**		**0.0338**	**0.0338**		**0.0318**	**0.0318**	**0.0000**	**81.9092**	**81.9092**	**0.0202**	**0.0000**	**82.4145**

3.7 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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0129	0.4496	0.1260	1.1500e-003	0.0297	9.3000e-004	0.0306	8.5700e-003	8.9000e-004	9.4600e-003	0.0000	113.8829	113.8829	9.2200e-003	0.0000	114.1134
Worker	0.0484	0.0325	0.3792	1.3400e-003	0.1449	9.6000e-004	0.1459	0.0385	8.8000e-004	0.0394	0.0000	121.0690	121.0690	2.5900e-003	0.0000	121.1338
Total	**0.0612**	**0.4821**	**0.5052**	**2.4900e-003**	**0.1746**	**1.8900e-003**	**0.1765**	**0.0471**	**1.7700e-003**	**0.0488**	**0.0000**	**234.9519**	**234.9519**	**0.0118**	**0.0000**	**235.2472**

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	tons/yr										MT/yr					
Off-Road	0.0668	0.6187	0.5831	9.5000e-004		0.0338	0.0338		0.0318	0.0318	0.0000	81.9091	81.9091	0.0202	0.0000	82.4144
Total	**0.0668**	**0.6187**	**0.5831**	**9.5000e-004**		**0.0338**	**0.0338**		**0.0318**	**0.0318**	**0.0000**	**81.9091**	**81.9091**	**0.0202**	**0.0000**	**82.4144**

3.7 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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0129	0.4496	0.1260	1.1500e-003	0.0297	9.3000e-004	0.0306	8.5700e-003	8.9000e-004	9.4600e-003	0.0000	113.8829	113.8829	9.2200e-003	0.0000	114.1134
Worker	0.0484	0.0325	0.3792	1.3400e-003	0.1449	9.6000e-004	0.1459	0.0385	8.8000e-004	0.0394	0.0000	121.0690	121.0690	2.5900e-003	0.0000	121.1338
Total	**0.0612**	**0.4821**	**0.5052**	**2.4900e-003**	**0.1746**	**1.8900e-003**	**0.1765**	**0.0471**	**1.7700e-003**	**0.0488**	**0.0000**	**234.9519**	**234.9519**	**0.0118**	**0.0000**	**235.2472**

3.7 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	tons/yr										MT/yr					
Off-Road	0.2359	2.1797	2.2671	3.7500e-003		0.1124	0.1124		0.1056	0.1056	0.0000	322.8033	322.8033	0.0791	0.0000	324.7819
Total	**0.2359**	**2.1797**	**2.2671**	**3.7500e-003**		**0.1124**	**0.1124**		**0.1056**	**0.1056**	**0.0000**	**322.8033**	**322.8033**	**0.0791**	**0.0000**	**324.7819**

3.7 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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0477	1.6738	0.4790	4.4900e-003	0.1170	3.2000e-003	0.1202	0.0338	3.0600e-003	0.0368	0.0000	444.2060	444.2060	0.0352	0.0000	445.0847
Worker	0.1803	0.1160	1.3926	5.0800e-003	0.5709	3.6900e-003	0.5745	0.1516	3.4000e-003	0.1550	0.0000	459.2813	459.2813	9.2700e-003	0.0000	459.5131
Total	**0.2279**	**1.7899**	**1.8716**	**9.5700e-003**	**0.6879**	**6.8900e-003**	**0.6948**	**0.1854**	**6.4600e-003**	**0.1918**	**0.0000**	**903.4874**	**903.4874**	**0.0444**	**0.0000**	**904.5978**

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	tons/yr										MT/yr					
Off-Road	0.2359	2.1797	2.2671	3.7500e-003		0.1124	0.1124		0.1056	0.1056	0.0000	322.8029	322.8029	0.0791	0.0000	324.7815
Total	**0.2359**	**2.1797**	**2.2671**	**3.7500e-003**		**0.1124**	**0.1124**		**0.1056**	**0.1056**	**0.0000**	**322.8029**	**322.8029**	**0.0791**	**0.0000**	**324.7815**

3.7 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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0477	1.6738	0.4790	4.4900e-003	0.1170	3.2000e-003	0.1202	0.0338	3.0600e-003	0.0368	0.0000	444.2060	444.2060	0.0352	0.0000	445.0847
Worker	0.1803	0.1160	1.3926	5.0800e-003	0.5709	3.6900e-003	0.5745	0.1516	3.4000e-003	0.1550	0.0000	459.2813	459.2813	9.2700e-003	0.0000	459.5131
Total	**0.2279**	**1.7899**	**1.8716**	**9.5700e-003**	**0.6879**	**6.8900e-003**	**0.6948**	**0.1854**	**6.4600e-003**	**0.1918**	**0.0000**	**903.4874**	**903.4874**	**0.0444**	**0.0000**	**904.5978**

3.7 Building Construction - 2023

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	tons/yr										MT/yr					
Off-Road	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9214	322.9214	0.0787	0.0000	324.8880
Total	**0.2176**	**2.0069**	**2.2503**	**3.7500e-003**		**0.0973**	**0.0973**		**0.0914**	**0.0914**	**0.0000**	**322.9214**	**322.9214**	**0.0787**	**0.0000**	**324.8880**

3.7 Building Construction - 2023

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0363	1.2569	0.4442	4.3400e-003	0.1170	1.5400e-003	0.1186	0.0338	1.4700e-003	0.0352	0.0000	430.7860	430.7860	0.0326	0.0000	431.6009
Worker	0.1709	0.1054	1.2971	4.8800e-003	0.5709	3.6300e-003	0.5745	0.1516	3.3400e-003	0.1549	0.0000	441.6407	441.6407	8.4000e-003	0.0000	441.8508
Total	**0.2072**	**1.3622**	**1.7413**	**9.2200e-003**	**0.6879**	**5.1700e-003**	**0.6930**	**0.1854**	**4.8100e-003**	**0.1902**	**0.0000**	**872.4267**	**872.4267**	**0.0410**	**0.0000**	**873.4517**

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	tons/yr										MT/yr					
Off-Road	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876
Total	**0.2176**	**2.0069**	**2.2503**	**3.7500e-003**		**0.0973**	**0.0973**		**0.0914**	**0.0914**	**0.0000**	**322.9211**	**322.9211**	**0.0787**	**0.0000**	**324.8876**

3.7 Building Construction - 2023

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0363	1.2569	0.4442	4.3400e-003	0.1170	1.5400e-003	0.1186	0.0338	1.4700e-003	0.0352	0.0000	430.7860	430.7860	0.0326	0.0000	431.6009
Worker	0.1709	0.1054	1.2971	4.8800e-003	0.5709	3.6300e-003	0.5745	0.1516	3.3400e-003	0.1549	0.0000	441.6407	441.6407	8.4000e-003	0.0000	441.8508
Total	**0.2072**	**1.3622**	**1.7413**	**9.2200e-003**	**0.6879**	**5.1700e-003**	**0.6930**	**0.1854**	**4.8100e-003**	**0.1902**	**0.0000**	**872.4267**	**872.4267**	**0.0410**	**0.0000**	**873.4517**

3.7 Building Construction - 2024

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	tons/yr										MT/yr					
Off-Road	0.2053	1.8897	2.2567	3.7800e-003		0.0860	0.0860		0.0808	0.0808	0.0000	325.4719	325.4719	0.0789	0.0000	327.4433
Total	**0.2053**	**1.8897**	**2.2567**	**3.7800e-003**		**0.0860**	**0.0860**		**0.0808**	**0.0808**	**0.0000**	**325.4719**	**325.4719**	**0.0789**	**0.0000**	**327.4433**

3.7 Building Construction - 2024

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0353	1.2506	0.4381	4.3300e-003	0.1179	1.5100e-003	0.1194	0.0340	1.4500e-003	0.0355	0.0000	430.6735	430.6735	0.0323	0.0000	431.4817
Worker	0.1639	0.0967	1.2158	4.7200e-003	0.5753	3.5900e-003	0.5788	0.1528	3.3000e-003	0.1561	0.0000	427.4058	427.4058	7.6800e-003	0.0000	427.5979
Total	**0.1993**	**1.3472**	**1.6539**	**9.0500e-003**	**0.6932**	**5.1000e-003**	**0.6983**	**0.1868**	**4.7500e-003**	**0.1915**	**0.0000**	**858.0793**	**858.0793**	**0.0400**	**0.0000**	**859.0796**

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	tons/yr										MT/yr					
Off-Road	0.2053	1.8897	2.2567	3.7800e-003		0.0860	0.0860		0.0808	0.0808	0.0000	325.4715	325.4715	0.0789	0.0000	327.4429
Total	**0.2053**	**1.8897**	**2.2567**	**3.7800e-003**		**0.0860**	**0.0860**		**0.0808**	**0.0808**	**0.0000**	**325.4715**	**325.4715**	**0.0789**	**0.0000**	**327.4429**

3.7 Building Construction - 2024

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0353	1.2506	0.4381	4.3300e-003	0.1179	1.5100e-003	0.1194	0.0340	1.4500e-003	0.0355	0.0000	430.6735	430.6735	0.0323	0.0000	431.4817
Worker	0.1639	0.0967	1.2158	4.7200e-003	0.5753	3.5900e-003	0.5788	0.1528	3.3000e-003	0.1561	0.0000	427.4058	427.4058	7.6800e-003	0.0000	427.5979
Total	**0.1993**	**1.3472**	**1.6539**	**9.0500e-003**	**0.6932**	**5.1000e-003**	**0.6983**	**0.1868**	**4.7500e-003**	**0.1915**	**0.0000**	**858.0793**	**858.0793**	**0.0400**	**0.0000**	**859.0796**

3.7 Building Construction - 2025

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	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884
Total	**0.1900**	**1.7443**	**2.2365**	**3.7700e-003**		**0.0737**	**0.0737**		**0.0692**	**0.0692**	**0.0000**	**324.3345**	**324.3345**	**0.0782**	**0.0000**	**326.2884**

3.7 Building Construction - 2025

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0343	1.2294	0.4311	4.2900e-003	0.1175	1.4700e-003	0.1190	0.0339	1.4100e-003	0.0353	0.0000	426.4010	426.4010	0.0318	0.0000	427.1950
Worker	0.1562	0.0883	1.1300	4.5100e-003	0.5731	3.5300e-003	0.5766	0.1522	3.2500e-003	0.1554	0.0000	408.5730	408.5730	7.0000e-003	0.0000	408.7479
Total	**0.1905**	**1.3178**	**1.5611**	**8.8000e-003**	**0.6905**	**5.0000e-003**	**0.6955**	**0.1861**	**4.6600e-003**	**0.1907**	**0.0000**	**834.9740**	**834.9740**	**0.0388**	**0.0000**	**835.9429**

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	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881
Total	**0.1900**	**1.7443**	**2.2365**	**3.7700e-003**		**0.0737**	**0.0737**		**0.0692**	**0.0692**	**0.0000**	**324.3341**	**324.3341**	**0.0782**	**0.0000**	**326.2881**

3.7 Building Construction - 2025

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0343	1.2294	0.4311	4.2900e-003	0.1175	1.4700e-003	0.1190	0.0339	1.4100e-003	0.0353	0.0000	426.4010	426.4010	0.0318	0.0000	427.1950
Worker	0.1562	0.0883	1.1300	4.5100e-003	0.5731	3.5300e-003	0.5766	0.1522	3.2500e-003	0.1554	0.0000	408.5730	408.5730	7.0000e-003	0.0000	408.7479
Total	**0.1905**	**1.3178**	**1.5611**	**8.8000e-003**	**0.6905**	**5.0000e-003**	**0.6955**	**0.1861**	**4.6600e-003**	**0.1907**	**0.0000**	**834.9740**	**834.9740**	**0.0388**	**0.0000**	**835.9429**

3.7 Building Construction - 2026

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	tons/yr										MT/yr					
Off-Road	0.1172	1.0760	1.3796	2.3200e-003		0.0455	0.0455		0.0427	0.0427	0.0000	200.0684	200.0684	0.0482	0.0000	201.2737
Total	**0.1172**	**1.0760**	**1.3796**	**2.3200e-003**		**0.0455**	**0.0455**		**0.0427**	**0.0427**	**0.0000**	**200.0684**	**200.0684**	**0.0482**	**0.0000**	**201.2737**

3.7 Building Construction - 2026

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0207	0.7483	0.2637	2.6300e-003	0.0725	8.9000e-004	0.0734	0.0209	8.5000e-004	0.0218	0.0000	261.4723	261.4723	0.0193	0.0000	261.9554
Worker	0.0926	0.0503	0.6542	2.6800e-003	0.3535	2.1100e-003	0.3556	0.0939	1.9500e-003	0.0958	0.0000	242.9200	242.9200	3.9700e-003	0.0000	243.0191
Total	**0.1132**	**0.7986**	**0.9179**	**5.3100e-003**	**0.4260**	**3.0000e-003**	**0.4290**	**0.1148**	**2.8000e-003**	**0.1176**	**0.0000**	**504.3923**	**504.3923**	**0.0233**	**0.0000**	**504.9745**

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	tons/yr										MT/yr					
Off-Road	0.1172	1.0760	1.3796	2.3200e-003		0.0455	0.0455		0.0427	0.0427	0.0000	200.0682	200.0682	0.0482	0.0000	201.2735
Total	**0.1172**	**1.0760**	**1.3796**	**2.3200e-003**		**0.0455**	**0.0455**		**0.0427**	**0.0427**	**0.0000**	**200.0682**	**200.0682**	**0.0482**	**0.0000**	**201.2735**

3.7 Building Construction - 2026

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0207	0.7483	0.2637	2.6300e-003	0.0725	8.9000e-004	0.0734	0.0209	8.5000e-004	0.0218	0.0000	261.4723	261.4723	0.0193	0.0000	261.9554
Worker	0.0926	0.0503	0.6542	2.6800e-003	0.3535	2.1100e-003	0.3556	0.0939	1.9500e-003	0.0958	0.0000	242.9200	242.9200	3.9700e-003	0.0000	243.0191
Total	**0.1132**	**0.7986**	**0.9179**	**5.3100e-003**	**0.4260**	**3.0000e-003**	**0.4290**	**0.1148**	**2.8000e-003**	**0.1176**	**0.0000**	**504.3923**	**504.3923**	**0.0233**	**0.0000**	**504.9745**

3.8 Paving - 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	tons/yr										MT/yr					
Off-Road	0.0414	0.4263	0.4836	7.5000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	66.0775	66.0775	0.0214	0.0000	66.6118
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0414**	**0.4263**	**0.4836**	**7.5000e-004**		**0.0224**	**0.0224**		**0.0206**	**0.0206**	**0.0000**	**66.0775**	**66.0775**	**0.0214**	**0.0000**	**66.6118**

3.8 Paving - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	1.8100e-003	1.2200e-003	0.0142	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5401	4.5401	1.0000e-004	0.0000	4.5425
Total	**1.8100e-003**	**1.2200e-003**	**0.0142**	**5.0000e-005**	**5.4300e-003**	**4.0000e-005**	**5.4700e-003**	**1.4400e-003**	**3.0000e-005**	**1.4800e-003**	**0.0000**	**4.5401**	**4.5401**	**1.0000e-004**	**0.0000**	**4.5425**

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	tons/yr										MT/yr					
Off-Road	0.0414	0.4263	0.4836	7.5000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	66.0774	66.0774	0.0214	0.0000	66.6117
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0414**	**0.4263**	**0.4836**	**7.5000e-004**		**0.0224**	**0.0224**		**0.0206**	**0.0206**	**0.0000**	**66.0774**	**66.0774**	**0.0214**	**0.0000**	**66.6117**

3.8 Paving - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	1.8100e-003	1.2200e-003	0.0142	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5401	4.5401	1.0000e-004	0.0000	4.5425
Total	**1.8100e-003**	**1.2200e-003**	**0.0142**	**5.0000e-005**	**5.4300e-003**	**4.0000e-005**	**5.4700e-003**	**1.4400e-003**	**3.0000e-005**	**1.4800e-003**	**0.0000**	**4.5401**	**4.5401**	**1.0000e-004**	**0.0000**	**4.5425**

3.8 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	tons/yr										MT/yr					
Off-Road	0.1434	1.4462	1.8955	2.9600e-003		0.0738	0.0738		0.0679	0.0679	0.0000	260.3583	260.3583	0.0842	0.0000	262.4634
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1434**	**1.4462**	**1.8955**	**2.9600e-003**		**0.0738**	**0.0738**		**0.0679**	**0.0679**	**0.0000**	**260.3583**	**260.3583**	**0.0842**	**0.0000**	**262.4634**

3.8 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.7600e-003	4.3500e-003	0.0522	1.9000e-004	0.0214	1.4000e-004	0.0216	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	17.2231	17.2231	3.5000e-004	0.0000	17.2317
Total	**6.7600e-003**	**4.3500e-003**	**0.0522**	**1.9000e-004**	**0.0214**	**1.4000e-004**	**0.0216**	**5.6800e-003**	**1.3000e-004**	**5.8100e-003**	**0.0000**	**17.2231**	**17.2231**	**3.5000e-004**	**0.0000**	**17.2317**

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	tons/yr										MT/yr					
Off-Road	0.1434	1.4462	1.8955	2.9600e-003		0.0738	0.0738		0.0679	0.0679	0.0000	260.3579	260.3579	0.0842	0.0000	262.4631
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1434**	**1.4462**	**1.8955**	**2.9600e-003**		**0.0738**	**0.0738**		**0.0679**	**0.0679**	**0.0000**	**260.3579**	**260.3579**	**0.0842**	**0.0000**	**262.4631**

3.8 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.7600e-003	4.3500e-003	0.0522	1.9000e-004	0.0214	1.4000e-004	0.0216	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	17.2231	17.2231	3.5000e-004	0.0000	17.2317
Total	**6.7600e-003**	**4.3500e-003**	**0.0522**	**1.9000e-004**	**0.0214**	**1.4000e-004**	**0.0216**	**5.6800e-003**	**1.3000e-004**	**5.8100e-003**	**0.0000**	**17.2231**	**17.2231**	**3.5000e-004**	**0.0000**	**17.2317**

3.8 Paving - 2023

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	tons/yr										MT/yr					
Off-Road	0.1343	1.3249	1.8960	2.9600e-003		0.0663	0.0663		0.0610	0.0610	0.0000	260.3493	260.3493	0.0842	0.0000	262.4543
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1343**	**1.3249**	**1.8960**	**2.9600e-003**		**0.0663**	**0.0663**		**0.0610**	**0.0610**	**0.0000**	**260.3493**	**260.3493**	**0.0842**	**0.0000**	**262.4543**

3.8 Paving - 2023

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.4100e-003	3.9500e-003	0.0486	1.8000e-004	0.0214	1.4000e-004	0.0215	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	16.5615	16.5615	3.2000e-004	0.0000	16.5694
Total	**6.4100e-003**	**3.9500e-003**	**0.0486**	**1.8000e-004**	**0.0214**	**1.4000e-004**	**0.0215**	**5.6800e-003**	**1.3000e-004**	**5.8100e-003**	**0.0000**	**16.5615**	**16.5615**	**3.2000e-004**	**0.0000**	**16.5694**

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	tons/yr										MT/yr					
Off-Road	0.1343	1.3249	1.8960	2.9600e-003		0.0663	0.0663		0.0610	0.0610	0.0000	260.3490	260.3490	0.0842	0.0000	262.4540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1343**	**1.3249**	**1.8960**	**2.9600e-003**		**0.0663**	**0.0663**		**0.0610**	**0.0610**	**0.0000**	**260.3490**	**260.3490**	**0.0842**	**0.0000**	**262.4540**

3.8 Paving - 2023

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.4100e-003	3.9500e-003	0.0486	1.8000e-004	0.0214	1.4000e-004	0.0215	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	16.5615	16.5615	3.2000e-004	0.0000	16.5694
Total	**6.4100e-003**	**3.9500e-003**	**0.0486**	**1.8000e-004**	**0.0214**	**1.4000e-004**	**0.0215**	**5.6800e-003**	**1.3000e-004**	**5.8100e-003**	**0.0000**	**16.5615**	**16.5615**	**3.2000e-004**	**0.0000**	**16.5694**

3.8 Paving - 2024

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	tons/yr										MT/yr					
Off-Road	0.1295	1.2477	1.9160	2.9900e-003		0.0614	0.0614		0.0565	0.0565	0.0000	262.3476	262.3476	0.0849	0.0000	264.4688
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1295**	**1.2477**	**1.9160**	**2.9900e-003**		**0.0614**	**0.0614**		**0.0565**	**0.0565**	**0.0000**	**262.3476**	**262.3476**	**0.0849**	**0.0000**	**264.4688**

3.8 Paving - 2024

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.1500e-003	3.6300e-003	0.0456	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7300e-003	1.2000e-004	5.8500e-003	0.0000	16.0277	16.0277	2.9000e-004	0.0000	16.0349
Total	**6.1500e-003**	**3.6300e-003**	**0.0456**	**1.8000e-004**	**0.0216**	**1.3000e-004**	**0.0217**	**5.7300e-003**	**1.2000e-004**	**5.8500e-003**	**0.0000**	**16.0277**	**16.0277**	**2.9000e-004**	**0.0000**	**16.0349**

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	tons/yr										MT/yr					
Off-Road	0.1295	1.2477	1.9160	2.9900e-003		0.0614	0.0614		0.0565	0.0565	0.0000	262.3473	262.3473	0.0849	0.0000	264.4685
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1295**	**1.2477**	**1.9160**	**2.9900e-003**		**0.0614**	**0.0614**		**0.0565**	**0.0565**	**0.0000**	**262.3473**	**262.3473**	**0.0849**	**0.0000**	**264.4685**

3.8 Paving - 2024

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.1500e-003	3.6300e-003	0.0456	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7300e-003	1.2000e-004	5.8500e-003	0.0000	16.0277	16.0277	2.9000e-004	0.0000	16.0349
Total	**6.1500e-003**	**3.6300e-003**	**0.0456**	**1.8000e-004**	**0.0216**	**1.3000e-004**	**0.0217**	**5.7300e-003**	**1.2000e-004**	**5.8500e-003**	**0.0000**	**16.0277**	**16.0277**	**2.9000e-004**	**0.0000**	**16.0349**

3.8 Paving - 2025

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	tons/yr										MT/yr					
Off-Road	0.1194	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2513	261.2513	0.0845	0.0000	263.3636
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1194**	**1.1199**	**1.9024**	**2.9800e-003**		**0.0546**	**0.0546**		**0.0503**	**0.0503**	**0.0000**	**261.2513**	**261.2513**	**0.0845**	**0.0000**	**263.3636**

3.8 Paving - 2025

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	5.8600e-003	3.3100e-003	0.0424	1.7000e-004	0.0215	1.3000e-004	0.0216	5.7100e-003	1.2000e-004	5.8300e-003	0.0000	15.3215	15.3215	2.6000e-004	0.0000	15.3281
Total	**5.8600e-003**	**3.3100e-003**	**0.0424**	**1.7000e-004**	**0.0215**	**1.3000e-004**	**0.0216**	**5.7100e-003**	**1.2000e-004**	**5.8300e-003**	**0.0000**	**15.3215**	**15.3215**	**2.6000e-004**	**0.0000**	**15.3281**

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	tons/yr										MT/yr					
Off-Road	0.1194	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2510	261.2510	0.0845	0.0000	263.3633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1194**	**1.1199**	**1.9024**	**2.9800e-003**		**0.0546**	**0.0546**		**0.0503**	**0.0503**	**0.0000**	**261.2510**	**261.2510**	**0.0845**	**0.0000**	**263.3633**

3.8 Paving - 2025

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	5.8600e-003	3.3100e-003	0.0424	1.7000e-004	0.0215	1.3000e-004	0.0216	5.7100e-003	1.2000e-004	5.8300e-003	0.0000	15.3215	15.3215	2.6000e-004	0.0000	15.3281
Total	**5.8600e-003**	**3.3100e-003**	**0.0424**	**1.7000e-004**	**0.0215**	**1.3000e-004**	**0.0216**	**5.7100e-003**	**1.2000e-004**	**5.8300e-003**	**0.0000**	**15.3215**	**15.3215**	**2.6000e-004**	**0.0000**	**15.3281**

3.8 Paving - 2026

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	tons/yr										MT/yr					
Off-Road	0.0737	0.6908	1.1735	1.8400e-003		0.0337	0.0337		0.0310	0.0310	0.0000	161.1550	161.1550	0.0521	0.0000	162.4580
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0737**	**0.6908**	**1.1735**	**1.8400e-003**		**0.0337**	**0.0337**		**0.0310**	**0.0310**	**0.0000**	**161.1550**	**161.1550**	**0.0521**	**0.0000**	**162.4580**

3.8 Paving - 2026

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	3.4700e-003	1.8900e-003	0.0245	1.0000e-004	0.0133	8.0000e-005	0.0133	3.5200e-003	7.0000e-005	3.5900e-003	0.0000	9.1095	9.1095	1.5000e-004	0.0000	9.1132
Total	**3.4700e-003**	**1.8900e-003**	**0.0245**	**1.0000e-004**	**0.0133**	**8.0000e-005**	**0.0133**	**3.5200e-003**	**7.0000e-005**	**3.5900e-003**	**0.0000**	**9.1095**	**9.1095**	**1.5000e-004**	**0.0000**	**9.1132**

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	tons/yr										MT/yr					
Off-Road	0.0737	0.6908	1.1735	1.8400e-003		0.0337	0.0337		0.0310	0.0310	0.0000	161.1548	161.1548	0.0521	0.0000	162.4578
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0737**	**0.6908**	**1.1735**	**1.8400e-003**		**0.0337**	**0.0337**		**0.0310**	**0.0310**	**0.0000**	**161.1548**	**161.1548**	**0.0521**	**0.0000**	**162.4578**

3.8 Paving - 2026

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	3.4700e-003	1.8900e-003	0.0245	1.0000e-004	0.0133	8.0000e-005	0.0133	3.5200e-003	7.0000e-005	3.5900e-003	0.0000	9.1095	9.1095	1.5000e-004	0.0000	9.1132
Total	**3.4700e-003**	**1.8900e-003**	**0.0245**	**1.0000e-004**	**0.0133**	**8.0000e-005**	**0.0133**	**3.5200e-003**	**7.0000e-005**	**3.5900e-003**	**0.0000**	**9.1095**	**9.1095**	**1.5000e-004**	**0.0000**	**9.1132**

3.9 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6300e-003	0.0672	0.0800	1.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003	0.0000	11.2343	11.2343	7.7000e-004	0.0000	11.2536
Total	**0.1950**	**0.0672**	**0.0800**	**1.3000e-004**		**4.1400e-003**	**4.1400e-003**		**4.1400e-003**	**4.1400e-003**	**0.0000**	**11.2343**	**11.2343**	**7.7000e-004**	**0.0000**	**11.2536**

3.9 Architectural Coating - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	9.6700e-003	6.5000e-003	0.0758	2.7000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8700e-003	0.0000	24.2138	24.2138	5.2000e-004	0.0000	24.2268
Total	**9.6700e-003**	**6.5000e-003**	**0.0758**	**2.7000e-004**	**0.0290**	**1.9000e-004**	**0.0292**	**7.7000e-003**	**1.8000e-004**	**7.8700e-003**	**0.0000**	**24.2138**	**24.2138**	**5.2000e-004**	**0.0000**	**24.2268**

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	tons/yr										MT/yr					
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6300e-003	0.0672	0.0800	1.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003	0.0000	11.2343	11.2343	7.7000e-004	0.0000	11.2536
Total	**0.1950**	**0.0672**	**0.0800**	**1.3000e-004**		**4.1400e-003**	**4.1400e-003**		**4.1400e-003**	**4.1400e-003**	**0.0000**	**11.2343**	**11.2343**	**7.7000e-004**	**0.0000**	**11.2536**

3.9 Architectural Coating - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	9.6700e-003	6.5000e-003	0.0758	2.7000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8700e-003	0.0000	24.2138	24.2138	5.2000e-004	0.0000	24.2268
Total	**9.6700e-003**	**6.5000e-003**	**0.0758**	**2.7000e-004**	**0.0290**	**1.9000e-004**	**0.0292**	**7.7000e-003**	**1.8000e-004**	**7.8700e-003**	**0.0000**	**24.2138**	**24.2138**	**5.2000e-004**	**0.0000**	**24.2268**

3.9 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	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0355	0.2441	0.3144	5.2000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	44.2564	44.2564	2.8800e-003	0.0000	44.3284
Total	**0.7657**	**0.2441**	**0.3144**	**5.2000e-004**		**0.0142**	**0.0142**		**0.0142**	**0.0142**	**0.0000**	**44.2564**	**44.2564**	**2.8800e-003**	**0.0000**	**44.3284**

3.9 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0361	0.0232	0.2785	1.0200e-003	0.1142	7.4000e-004	0.1149	0.0303	6.8000e-004	0.0310	0.0000	91.8563	91.8563	1.8500e-003	0.0000	91.9026
Total	**0.0361**	**0.0232**	**0.2785**	**1.0200e-003**	**0.1142**	**7.4000e-004**	**0.1149**	**0.0303**	**6.8000e-004**	**0.0310**	**0.0000**	**91.8563**	**91.8563**	**1.8500e-003**	**0.0000**	**91.9026**

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	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0355	0.2441	0.3144	5.2000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	44.2564	44.2564	2.8800e-003	0.0000	44.3284
Total	**0.7657**	**0.2441**	**0.3144**	**5.2000e-004**		**0.0142**	**0.0142**		**0.0142**	**0.0142**	**0.0000**	**44.2564**	**44.2564**	**2.8800e-003**	**0.0000**	**44.3284**

3.9 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0361	0.0232	0.2785	1.0200e-003	0.1142	7.4000e-004	0.1149	0.0303	6.8000e-004	0.0310	0.0000	91.8563	91.8563	1.8500e-003	0.0000	91.9026
Total	**0.0361**	**0.0232**	**0.2785**	**1.0200e-003**	**0.1142**	**7.4000e-004**	**0.1149**	**0.0303**	**6.8000e-004**	**0.0310**	**0.0000**	**91.8563**	**91.8563**	**1.8500e-003**	**0.0000**	**91.9026**

3.9 Architectural Coating - 2023

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	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.2259	0.3139	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3226
Total	**0.7635**	**0.2259**	**0.3139**	**5.2000e-004**		**0.0123**	**0.0123**		**0.0123**	**0.0123**	**0.0000**	**44.2564**	**44.2564**	**2.6500e-003**	**0.0000**	**44.3226**

3.9 Architectural Coating - 2023

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0342	0.0211	0.2594	9.8000e-004	0.1142	7.3000e-004	0.1149	0.0303	6.7000e-004	0.0310	0.0000	88.3282	88.3282	1.6800e-003	0.0000	88.3702
Total	**0.0342**	**0.0211**	**0.2594**	**9.8000e-004**	**0.1142**	**7.3000e-004**	**0.1149**	**0.0303**	**6.7000e-004**	**0.0310**	**0.0000**	**88.3282**	**88.3282**	**1.6800e-003**	**0.0000**	**88.3702**

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	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.2259	0.3139	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3225
Total	**0.7635**	**0.2259**	**0.3139**	**5.2000e-004**		**0.0123**	**0.0123**		**0.0123**	**0.0123**	**0.0000**	**44.2564**	**44.2564**	**2.6500e-003**	**0.0000**	**44.3225**

3.9 Architectural Coating - 2023

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0342	0.0211	0.2594	9.8000e-004	0.1142	7.3000e-004	0.1149	0.0303	6.7000e-004	0.0310	0.0000	88.3282	88.3282	1.6800e-003	0.0000	88.3702
Total	**0.0342**	**0.0211**	**0.2594**	**9.8000e-004**	**0.1142**	**7.3000e-004**	**0.1149**	**0.0303**	**6.7000e-004**	**0.0310**	**0.0000**	**88.3282**	**88.3282**	**1.6800e-003**	**0.0000**	**88.3702**

3.9 Architectural Coating - 2024

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	tons/yr										MT/yr					
Archit. Coating	0.7359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.2129	0.3162	5.2000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	44.5968	44.5968	2.5100e-003	0.0000	44.6596
Total	**0.7674**	**0.2129**	**0.3162**	**5.2000e-004**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**44.5968**	**44.5968**	**2.5100e-003**	**0.0000**	**44.6596**

3.9 Architectural Coating - 2024

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0328	0.0193	0.2432	9.4000e-004	0.1151	7.2000e-004	0.1158	0.0306	6.6000e-004	0.0312	0.0000	85.4812	85.4812	1.5400e-003	0.0000	85.5196
Total	**0.0328**	**0.0193**	**0.2432**	**9.4000e-004**	**0.1151**	**7.2000e-004**	**0.1158**	**0.0306**	**6.6000e-004**	**0.0312**	**0.0000**	**85.4812**	**85.4812**	**1.5400e-003**	**0.0000**	**85.5196**

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	tons/yr										MT/yr					
Archit. Coating	0.7359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.2129	0.3162	5.2000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	44.5968	44.5968	2.5100e-003	0.0000	44.6596
Total	**0.7674**	**0.2129**	**0.3162**	**5.2000e-004**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**44.5968**	**44.5968**	**2.5100e-003**	**0.0000**	**44.6596**

3.9 Architectural Coating - 2024

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0328	0.0193	0.2432	9.4000e-004	0.1151	7.2000e-004	0.1158	0.0306	6.6000e-004	0.0312	0.0000	85.4812	85.4812	1.5400e-003	0.0000	85.5196
Total	**0.0328**	**0.0193**	**0.2432**	**9.4000e-004**	**0.1151**	**7.2000e-004**	**0.1158**	**0.0306**	**6.6000e-004**	**0.0312**	**0.0000**	**85.4812**	**85.4812**	**1.5400e-003**	**0.0000**	**85.5196**

3.9 Architectural Coating - 2025

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	tons/yr										MT/yr					
Archit. Coating	0.7331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0297	0.1993	0.3148	5.2000e-004		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	44.4266	44.4266	2.4200e-003	0.0000	44.4872
Total	**0.7628**	**0.1993**	**0.3148**	**5.2000e-004**		**8.9600e-003**	**8.9600e-003**		**8.9600e-003**	**8.9600e-003**	**0.0000**	**44.4266**	**44.4266**	**2.4200e-003**	**0.0000**	**44.4872**

3.9 Architectural Coating - 2025

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0312	0.0177	0.2260	9.0000e-004	0.1146	7.1000e-004	0.1153	0.0304	6.5000e-004	0.0311	0.0000	81.7146	81.7146	1.4000e-003	0.0000	81.7496
Total	**0.0312**	**0.0177**	**0.2260**	**9.0000e-004**	**0.1146**	**7.1000e-004**	**0.1153**	**0.0304**	**6.5000e-004**	**0.0311**	**0.0000**	**81.7146**	**81.7146**	**1.4000e-003**	**0.0000**	**81.7496**

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	tons/yr										MT/yr					
Archit. Coating	0.7331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0297	0.1993	0.3148	5.2000e-004		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	44.4266	44.4266	2.4200e-003	0.0000	44.4872
Total	**0.7628**	**0.1993**	**0.3148**	**5.2000e-004**		**8.9600e-003**	**8.9600e-003**		**8.9600e-003**	**8.9600e-003**	**0.0000**	**44.4266**	**44.4266**	**2.4200e-003**	**0.0000**	**44.4872**

3.9 Architectural Coating - 2025

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0312	0.0177	0.2260	9.0000e-004	0.1146	7.1000e-004	0.1153	0.0304	6.5000e-004	0.0311	0.0000	81.7146	81.7146	1.4000e-003	0.0000	81.7496
Total	**0.0312**	**0.0177**	**0.2260**	**9.0000e-004**	**0.1146**	**7.1000e-004**	**0.1153**	**0.0304**	**6.5000e-004**	**0.0311**	**0.0000**	**81.7146**	**81.7146**	**1.4000e-003**	**0.0000**	**81.7496**

3.9 Architectural Coating - 2026

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	tons/yr										MT/yr					
Archit. Coating	0.4522					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1230	0.1942	3.2000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003	0.0000	27.4049	27.4049	1.4900e-003	0.0000	27.4423
Total	**0.4705**	**0.1230**	**0.1942**	**3.2000e-004**		**5.5300e-003**	**5.5300e-003**		**5.5300e-003**	**5.5300e-003**	**0.0000**	**27.4049**	**27.4049**	**1.4900e-003**	**0.0000**	**27.4423**

3.9 Architectural Coating - 2026

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0185	0.0101	0.1309	5.4000e-004	0.0707	4.2000e-004	0.0711	0.0188	3.9000e-004	0.0192	0.0000	48.5840	48.5840	7.9000e-004	0.0000	48.6038
Total	**0.0185**	**0.0101**	**0.1309**	**5.4000e-004**	**0.0707**	**4.2000e-004**	**0.0711**	**0.0188**	**3.9000e-004**	**0.0192**	**0.0000**	**48.5840**	**48.5840**	**7.9000e-004**	**0.0000**	**48.6038**

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	tons/yr										MT/yr					
Archit. Coating	0.4522					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1230	0.1942	3.2000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003	0.0000	27.4049	27.4049	1.4900e-003	0.0000	27.4423
Total	**0.4705**	**0.1230**	**0.1942**	**3.2000e-004**		**5.5300e-003**	**5.5300e-003**		**5.5300e-003**	**5.5300e-003**	**0.0000**	**27.4049**	**27.4049**	**1.4900e-003**	**0.0000**	**27.4423**

3.9 Architectural Coating - 2026

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0185	0.0101	0.1309	5.4000e-004	0.0707	4.2000e-004	0.0711	0.0188	3.9000e-004	0.0192	0.0000	48.5840	48.5840	7.9000e-004	0.0000	48.6038
Total	**0.0185**	**0.0101**	**0.1309**	**5.4000e-004**	**0.0707**	**4.2000e-004**	**0.0711**	**0.0188**	**3.9000e-004**	**0.0192**	**0.0000**	**48.5840**	**48.5840**	**7.9000e-004**	**0.0000**	**48.6038**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Rancho La Habra Project Development (Construction - Unmitigated) - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	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
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Supermarket	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
City Park	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Condo/Townhouse	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Health Club	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
High Turnover (Sit Down Restaurant)	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Single Family Housing	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Supermarket	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Rancho La Habra Project Development (Construction - Unmitigated) - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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	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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	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	0.0000
Health Club	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	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	0.0000
Single Family Housing	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	0.0000
Supermarket	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	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**

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	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	0.0000
Health Club	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	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	0.0000
Single Family Housing	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	0.0000
Supermarket	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	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**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Total		**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	tons/yr										MT/yr					
Mitigated	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Unmitigated	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813

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	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	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	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	**4.5504**	**0.0501**	**4.3489**	**2.3000e-004**		**0.0241**	**0.0241**		**0.0241**	**0.0241**	**0.0000**	**7.1109**	**7.1109**	**6.8100e-003**	**0.0000**	**7.2813**

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	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	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	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	**4.5504**	**0.0501**	**4.3489**	**2.3000e-004**		**0.0241**	**0.0241**		**0.0241**	**0.0241**	**0.0000**	**7.1109**	**7.1109**	**6.8100e-003**	**0.0000**	**7.2813**

7.0 Water Detail

7.1 Mitigation Measures Water

Rancho La Habra Project Development (Construction - Unmitigated) - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Rancho La Habra Project Development (Construction - Mitigated)

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	42.10	Acre	42.10	1,833,876.00	0
Health Club	22.50	1000sqft	0.52	22,500.00	0
High Turnover (Sit Down Restaurant)	8.00	1000sqft	0.18	8,000.00	0
Condo/Townhouse	145.00	Dwelling Unit	9.06	275,500.00	435
Single Family Housing	277.00	Dwelling Unit	97.86	801,638.00	831
Supermarket	12.00	1000sqft	0.28	12,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	417.5	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Rancho La Habra Project Development (Construction - Mitigated) - Orange County, Annual

Project Characteristics - CO2 intensity factor represents CO2e intensity factor. The projected 2026 RPS target is derived based on a linear trajectory to reach the 50% project RPS consistent with SB 32 and SB 350.

Land Use - Total Project Area = 150 acres; Average Condo Size = 1,900 SF; Average Single Family Home Size = 2,894 SF

Construction Phase - Construction Schedule adjusted to be consistent with the 2023 OY.

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

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

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Off-road Equipment - Construction Equipment adjusted to be consistent with the equipment presented in the 2016 Air Study.

Trips and VMT - Building Construction (BC) Worker trips based on Construction Traffic Impacts; BC vendor trips and architectural coating worker trips decreased proportional to the proportional decrease in BC worker trips

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Woodstoves - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Exposed area will be watered 4 times per day, resulting in 74 percent fugitive dust reduction; All construction equipment except 3/6 scrapers will meet U.S EPA/CARB Tier 4 standards.

Rancho La Habra Project Development (Construction - Mitigated) - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Rancho La Habra Project Development (Construction - Mitigated) - Orange County, Annual

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	200.00	13.00
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tblConstructionPhase	NumDays	120.00	70.00
tblConstructionPhase	NumDays	310.00	150.00
tblConstructionPhase	NumDays	310.00	104.00
tblConstructionPhase	NumDays	3,100.00	1,270.00
tblConstructionPhase	NumDays	220.00	1,270.00
tblConstructionPhase	NumDays	220.00	1,270.00
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tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	8.68	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24E	25.23	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	10.60	0.00
tblEnergyUse	T24E	172.41	0.00
tblEnergyUse	T24E	1.63	0.00

tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	253.73	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24NG	12,129.63	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	78.56	0.00
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tblEnergyUse	T24NG	9.95	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
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tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	123.25	0.00
tblFireplaces	NumberGas	235.45	0.00
tblFireplaces	NumberNoFireplace	14.50	0.00
tblFireplaces	NumberNoFireplace	27.70	0.00
tblFireplaces	NumberWood	7.25	0.00
tblFireplaces	NumberWood	13.85	0.00
tblGrading	MaterialImported	0.00	15,000.00
tblLandUse	LandUseSquareFeet	145,000.00	275,500.00
tblLandUse	LandUseSquareFeet	498,600.00	801,638.00
tblLandUse	LotAcreage	89.94	97.86
tblLandUse	Population	415.00	435.00
tblLandUse	Population	792.00	831.00
tblOffRoadEquipment	HorsePower	367.00	585.00

tblOffRoadEquipment	HorsePower	85.00	200.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	417.5
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tblSolidWaste	SolidWasteGenerationRate	66.70	0.00
tblSolidWaste	SolidWasteGenerationRate	128.25	0.00
tblSolidWaste	SolidWasteGenerationRate	95.20	0.00

tblSolidWaste	SolidWasteGenerationRate	340.71	0.00
tblSolidWaste	SolidWasteGenerationRate	67.68	0.00
tblTripsAndVMT	VendorTripNumber	353.00	143.00
tblTripsAndVMT	WorkerTripNumber	991.00	400.00
tblTripsAndVMT	WorkerTripNumber	198.00	80.00
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tblVehicleEF	HHD	1.40	6.05
tblVehicleEF	HHD	1.30	0.68
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tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.24	5.17
tblVehicleEF	HHD	1.64	2.36
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tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	7.9170e-003	2.5791e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1800e-004	2.5844e-006

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tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.4000e-004	4.8309e-004
tblVehicleEF	HHD	0.09	4.0699e-006
tblVehicleEF	HHD	0.37	0.03
tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	6.8287e-007
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tblVehicleEF	HHD	1.31	0.68
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tblVehicleEF	HHD	3,932.88	965.32
tblVehicleEF	HHD	1,567.60	1,325.78
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tblVehicleEF	HHD	12.63	4.94
tblVehicleEF	HHD	1.55	2.24

tblVehicleEF	HHD	6.9760e-003	2.3520e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
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tblVehicleEF	HHD	1.2600e-004	2.7063e-006
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tblVehicleEF	HHD	0.42	0.02
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tblVehicleEF	HHD	0.06	7.1763e-007
tblVehicleEF	HHD	1.93	5.97
tblVehicleEF	HHD	1.30	0.21
tblVehicleEF	HHD	4.50	0.01
tblVehicleEF	HHD	3,407.76	956.71
tblVehicleEF	HHD	1,567.60	1,219.26
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tblVehicleEF	HHD	11.69	5.28
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
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tblVehicleEF	HHD	8.6670e-003	8.4573e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
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tblVehicleEF	HHD	0.08	0.02
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tblVehicleEF	LDA	2.8090e-003	0.03
tblVehicleEF	LDA	0.43	0.49
tblVehicleEF	LDA	0.72	1.76
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tblVehicleEF	LDA	47.75	46.23
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tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
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tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
tblVehicleEF	LDA	2.0130e-003	1.4288e-003
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.9380e-003	5.0900e-003
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tblVehicleEF	LDA	0.04	0.15
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tblVehicleEF	LDA	0.07	0.07
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tblVehicleEF	LDA	0.03	0.02
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tblVehicleEF	LDA	0.02	0.02

tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.5740e-003	1.1939e-003
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tblVehicleEF	LDA	0.07	0.08
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tblVehicleEF	LDA	0.07	0.08
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tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
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tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
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tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
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tblVehicleEF	LDT1	0.11	0.22
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tblVehicleEF	LDT1	6.4900e-004	5.5911e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	6.2860e-003	3.4156e-003
tblVehicleEF	LDT1	7.1800e-003	0.04
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tblVehicleEF	LDT1	283.94	281.33
tblVehicleEF	LDT1	61.96	56.01
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.04	0.04

tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.01
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tblVehicleEF	LDT1	0.13	0.12
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tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	5.8680e-003	3.1636e-003
tblVehicleEF	LDT1	8.1630e-003	0.05
tblVehicleEF	LDT1	0.76	0.76
tblVehicleEF	LDT1	1.74	1.98
tblVehicleEF	LDT1	268.81	268.31
tblVehicleEF	LDT1	61.96	56.61

tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.11	0.23
tblVehicleEF	LDT1	2.6960e-003	2.6552e-003
tblVehicleEF	LDT1	6.4900e-004	5.6018e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.12	0.25
tblVehicleEF	LDT2	3.9670e-003	2.4814e-003
tblVehicleEF	LDT2	3.9510e-003	0.05
tblVehicleEF	LDT2	0.58	0.66
tblVehicleEF	LDT2	0.97	2.27

tblVehicleEF	LDT2	305.47	284.99
tblVehicleEF	LDT2	68.50	59.63
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.8490e-003	9.4619e-003
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0580e-003	2.8192e-003
tblVehicleEF	LDT2	7.0100e-004	5.9004e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	4.1900e-003	2.6377e-003
tblVehicleEF	LDT2	3.5660e-003	0.04

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tblVehicleEF	LDT2	0.84	1.96
tblVehicleEF	LDT2	317.98	294.00
tblVehicleEF	LDT2	68.50	59.06
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	9.9749e-003
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.19
tblVehicleEF	LDT2	3.1840e-003	2.9084e-003
tblVehicleEF	LDT2	6.9900e-004	5.8443e-004
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.21

tblVehicleEF	LDT2	3.8920e-003	2.4323e-003
tblVehicleEF	LDT2	4.0310e-003	0.05
tblVehicleEF	LDT2	0.56	0.64
tblVehicleEF	LDT2	0.99	2.34
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tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.6640e-003	9.2897e-003
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0120e-003	2.7863e-003
tblVehicleEF	LDT2	7.0100e-004	5.9127e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LHD1	4.4070e-003	4.8055e-003
tblVehicleEF	LHD1	5.8690e-003	3.0275e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34
tblVehicleEF	LHD1	1.81	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.77
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.79	0.46
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003

tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003
tblVehicleEF	LHD1	3.1600e-004	1.0657e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.4070e-003	4.8154e-003
tblVehicleEF	LHD1	5.9560e-003	3.0669e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.49	0.35
tblVehicleEF	LHD1	1.73	0.86
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.71
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.75	0.43
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003

tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	3.1160e-003	2.3665e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0060e-003	1.5423e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.24	0.35
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9308e-003
tblVehicleEF	LHD1	3.1400e-004	1.0594e-004
tblVehicleEF	LHD1	3.1160e-003	2.3665e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0060e-003	1.5423e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.24	0.35
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.4070e-003	4.8037e-003
tblVehicleEF	LHD1	5.8460e-003	3.0170e-003
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34
tblVehicleEF	LHD1	1.82	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.54
tblVehicleEF	LHD1	28.18	10.78
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.78	0.45
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
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tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003

tblVehicleEF	LHD1	3.1600e-004	1.0666e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD2	3.1600e-003	3.4118e-003
tblVehicleEF	LHD2	2.5500e-003	2.5031e-003
tblVehicleEF	LHD2	5.1240e-003	7.7083e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.00	0.59
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.32
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.39	0.52
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003

tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
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tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4188e-003
tblVehicleEF	LHD2	2.5710e-003	2.5214e-003
tblVehicleEF	LHD2	4.9820e-003	7.4668e-003
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tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	0.96	0.57
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89

tblVehicleEF	LHD2	24.66	8.28
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.36	0.49
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003
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tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
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tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003

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tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4105e-003
tblVehicleEF	LHD2	2.5450e-003	2.4983e-003
tblVehicleEF	LHD2	5.1530e-003	7.7580e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.01	0.60
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.33
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.38	0.51
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
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tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	5.6800e-004	7.4780e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6400e-004	8.2408e-005
tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4780e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.64	17.81
tblVehicleEF	MCY	9.65	8.54
tblVehicleEF	MCY	179.17	214.60
tblVehicleEF	MCY	43.54	58.63
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003

tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.32	2.33
tblVehicleEF	MCY	0.57	1.70
tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.1500e-003	2.1237e-003
tblVehicleEF	MCY	6.5200e-004	5.8022e-004
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.90	2.91
tblVehicleEF	MCY	0.57	1.70
tblVehicleEF	MCY	2.18	1.93
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.03	17.19
tblVehicleEF	MCY	8.86	7.81
tblVehicleEF	MCY	179.17	213.43
tblVehicleEF	MCY	43.54	56.86
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003

tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.27	2.28
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.81	1.59
tblVehicleEF	MCY	2.1390e-003	2.1121e-003
tblVehicleEF	MCY	6.3300e-004	5.6267e-004
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.84	2.85
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.97	1.73
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	17.73	17.90
tblVehicleEF	MCY	9.78	8.67
tblVehicleEF	MCY	179.17	214.78
tblVehicleEF	MCY	43.54	58.95
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003

tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.33	2.34
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1520e-003	2.1254e-003
tblVehicleEF	MCY	6.5500e-004	5.8338e-004
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MDV	6.8660e-003	2.9640e-003
tblVehicleEF	MDV	8.3060e-003	0.06
tblVehicleEF	MDV	0.83	0.71
tblVehicleEF	MDV	1.63	2.44
tblVehicleEF	MDV	419.30	353.65
tblVehicleEF	MDV	92.03	72.42
tblVehicleEF	MDV	0.08	0.05

tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.09	0.37
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	4.1950e-003	3.4955e-003
tblVehicleEF	MDV	9.4800e-004	7.1663e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.37
tblVehicleEF	MDV	0.12	0.28
tblVehicleEF	MDV	7.2430e-003	3.1499e-003
tblVehicleEF	MDV	7.4810e-003	0.05
tblVehicleEF	MDV	0.90	0.78
tblVehicleEF	MDV	1.42	2.11
tblVehicleEF	MDV	435.95	362.92

tblVehicleEF	MDV	92.03	71.80
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
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tblVehicleEF	MDV	0.02	0.01
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tblVehicleEF	MDV	0.03	0.02
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tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
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tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
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tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.01	0.00

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tblVehicleEF	MH	0.01	0.00
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tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
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tblVehicleEF	MHD	0.01	9.0982e-003
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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7070e-003	5.9771e-003
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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	6.7000e-005	1.5609e-004
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tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.27	0.05
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tblVehicleEF	OBUS	4.4900e-003	3.4710e-003
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tblVehicleEF	OBUS	0.55	0.95
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tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
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tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
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tblVehicleEF	OBUS	0.52	0.89
tblVehicleEF	OBUS	1.2000e-005	9.5363e-005
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.2000e-005	9.1238e-005
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0190e-003	1.2350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.27	0.10
tblVehicleEF	OBUS	8.0100e-004	7.5810e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6000e-004	1.8084e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.0190e-003	1.2350e-003
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.30	0.11
tblVehicleEF	OBUS	0.01	8.5167e-003
tblVehicleEF	OBUS	4.4690e-003	3.4503e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.59
tblVehicleEF	OBUS	0.33	0.42
tblVehicleEF	OBUS	4.54	2.13
tblVehicleEF	OBUS	73.90	81.75
tblVehicleEF	OBUS	1,197.99	1,276.22
tblVehicleEF	OBUS	68.49	18.49
tblVehicleEF	OBUS	0.15	0.34
tblVehicleEF	OBUS	0.54	0.93
tblVehicleEF	OBUS	1.8000e-005	1.2384e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.7000e-005	1.1848e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004

tblVehicleEF	OBUS	1.3260e-003	1.6532e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.3600e-004	9.0323e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	7.1700e-004	7.7840e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8296e-004
tblVehicleEF	OBUS	1.3260e-003	1.6532e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.3600e-004	9.0323e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.1395e-003
tblVehicleEF	SBUS	0.06	8.9683e-003
tblVehicleEF	SBUS	8.76	3.71
tblVehicleEF	SBUS	0.77	0.76
tblVehicleEF	SBUS	8.04	1.19
tblVehicleEF	SBUS	1,056.06	358.73
tblVehicleEF	SBUS	1,050.26	1,039.84
tblVehicleEF	SBUS	60.45	7.22
tblVehicleEF	SBUS	6.45	3.18

tblVehicleEF	SBUS	2.88	4.33
tblVehicleEF	SBUS	4.9650e-003	3.4992e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.7500e-003	3.3478e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.43	0.05
tblVehicleEF	SBUS	0.01	3.4332e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4400e-004	7.1436e-005
tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07

tblVehicleEF	SBUS	0.47	0.06
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.2398e-003
tblVehicleEF	SBUS	0.06	8.0601e-003
tblVehicleEF	SBUS	8.68	3.67
tblVehicleEF	SBUS	0.78	0.77
tblVehicleEF	SBUS	6.64	0.98
tblVehicleEF	SBUS	1,101.09	366.34
tblVehicleEF	SBUS	1,050.26	1,039.86
tblVehicleEF	SBUS	60.45	6.87
tblVehicleEF	SBUS	6.66	3.25
tblVehicleEF	SBUS	2.72	4.08
tblVehicleEF	SBUS	4.1860e-003	2.9567e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.0050e-003	2.8288e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.09	0.09

tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.01	3.5052e-003
tblVehicleEF	SBUS	0.01	9.9764e-003
tblVehicleEF	SBUS	7.2000e-004	6.8013e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.50	0.63
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.1113e-003
tblVehicleEF	SBUS	0.07	9.0985e-003
tblVehicleEF	SBUS	8.88	3.75
tblVehicleEF	SBUS	0.77	0.75
tblVehicleEF	SBUS	8.17	1.21
tblVehicleEF	SBUS	993.88	348.22
tblVehicleEF	SBUS	1,050.26	1,039.83
tblVehicleEF	SBUS	60.45	7.25
tblVehicleEF	SBUS	6.17	3.08
tblVehicleEF	SBUS	2.83	4.25
tblVehicleEF	SBUS	6.0420e-003	4.2484e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	5.7800e-003	4.0646e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.44	0.05
tblVehicleEF	SBUS	9.7890e-003	3.3340e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4600e-004	7.1764e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.48	0.06
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.68	41.12
tblVehicleEF	UBUS	10.95	1.81

tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.55
tblVehicleEF	UBUS	2.86	0.45
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.88	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6000e-003	1.9349e-004
tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.97	0.11
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.06	0.02

tblVehicleEF	UBUS	6.71	41.12
tblVehicleEF	UBUS	9.70	1.61
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.20
tblVehicleEF	UBUS	2.69	0.44
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.82	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.5790e-003	1.9002e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.90	0.11

tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.67	41.12
tblVehicleEF	UBUS	11.17	1.85
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.62
tblVehicleEF	UBUS	2.81	0.44
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.90	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6040e-003	1.9411e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	1.71	5.38

tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.98	0.11
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
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	64.10	0.00
tblVehicleTrips	CC_TTP	72.50	0.00
tblVehicleTrips	CC_TTP	74.50	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_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_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	16.90	0.00
tblVehicleTrips	CW_TTP	8.50	0.00
tblVehicleTrips	CW_TTP	6.50	0.00
tblVehicleTrips	DV_TP	28.00	0.00

tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	39.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	9.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	36.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	PR_TP	52.00	0.00
tblVehicleTrips	PR_TP	37.00	0.00

tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	PR_TP	34.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblWater	IndoorWaterUseRate	9,447,333.72	0.00
tblWater	IndoorWaterUseRate	1,330,720.74	0.00
tblWater	IndoorWaterUseRate	2,428,269.70	0.00
tblWater	IndoorWaterUseRate	18,047,665.10	0.00
tblWater	IndoorWaterUseRate	1,479,218.58	0.00
tblWater	OutdoorWaterUseRate	50,161,364.82	0.00
tblWater	OutdoorWaterUseRate	5,955,927.78	0.00

tblWater	OutdoorWaterUseRate	815,603.03	0.00
tblWater	OutdoorWaterUseRate	154,995.94	0.00
tblWater	OutdoorWaterUseRate	11,377,875.82	0.00
tblWater	OutdoorWaterUseRate	45,749.03	0.00
tblWoodstoves	NumberCatalytic	7.25	0.00
tblWoodstoves	NumberCatalytic	13.85	0.00
tblWoodstoves	NumberNoncatalytic	7.25	0.00
tblWoodstoves	NumberNoncatalytic	13.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2020	0.1702	1.9385	1.1203	3.2600e-003	0.6627	0.0731	0.7358	0.1136	0.0676	0.1812	0.0000	291.2500	291.2500	0.0737	0.0000	293.0930
2021	0.9444	8.1226	5.5200	0.0154	1.0923	0.3087	1.4010	0.3216	0.2850	0.6066	0.0000	1,375.9035	1,375.9035	0.3460	0.0000	1,384.5535
2022	1.4157	5.6875	6.6792	0.0180	0.8235	0.2082	1.0316	0.2214	0.1949	0.4163	0.0000	1,639.9846	1,639.9846	0.2129	0.0000	1,645.3058
2023	1.3631	4.9449	6.5095	0.0176	0.8235	0.1819	1.0053	0.2214	0.1703	0.3916	0.0000	1,604.8435	1,604.8435	0.2085	0.0000	1,610.0562
2024	1.3403	4.7204	6.4315	0.0175	0.8298	0.1640	0.9938	0.2231	0.1534	0.3765	0.0000	1,592.0044	1,592.0044	0.2081	0.0000	1,597.2057
2025	1.2998	4.4023	6.2832	0.0171	0.8266	0.1431	0.9697	0.2222	0.1339	0.3561	0.0000	1,562.0225	1,562.0225	0.2055	0.0000	1,567.1598
2026	0.7966	2.7003	3.8206	0.0104	0.5099	0.0882	0.5981	0.1371	0.0825	0.2196	0.0000	950.7142	950.7142	0.1261	0.0000	953.8656
Maximum	**1.4157**	**8.1226**	**6.6792**	**0.0180**	**1.0923**	**0.3087**	**1.4010**	**0.3216**	**0.2850**	**0.6066**	**0.0000**	**1,639.9846**	**1,639.9846**	**0.3460**	**0.0000**	**1,645.3058**

2.1 Overall Construction

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	tons/yr										MT/yr					
2020	0.0788	0.8520	1.2904	3.2600e-003	0.1912	0.0253	0.2165	0.0345	0.0235	0.0580	0.0000	291.2497	291.2497	0.0737	0.0000	293.0927
2021	0.5901	3.7738	6.1410	0.0154	0.4623	0.1117	0.5740	0.1315	0.1038	0.2353	0.0000	1,375.9023	1,375.9023	0.3460	0.0000	1,384.5522
2022	1.0882	2.3013	7.1946	0.0180	0.8235	0.0190	0.8425	0.2214	0.0185	0.2399	0.0000	1,639.9839	1,639.9839	0.2129	0.0000	1,645.3051
2023	1.0653	1.8711	7.0417	0.0176	0.8235	0.0173	0.8407	0.2214	0.0169	0.2382	0.0000	1,604.8428	1,604.8428	0.2085	0.0000	1,610.0555
2024	1.0619	1.8577	6.9733	0.0175	0.8298	0.0173	0.8471	0.2231	0.0169	0.2399	0.0000	1,592.0037	1,592.0037	0.2081	0.0000	1,597.2049
2025	1.0482	1.8244	6.8410	0.0171	0.8266	0.0171	0.8438	0.2222	0.0167	0.2389	0.0000	1,562.0218	1,562.0218	0.2055	0.0000	1,567.1590
2026	0.6414	1.1102	4.1647	0.0104	0.5099	0.0105	0.5204	0.1371	0.0102	0.1473	0.0000	950.7137	950.7137	0.1261	0.0000	953.8651
Maximum	**1.0882**	**3.7738**	**7.1946**	**0.0180**	**0.8298**	**0.1117**	**0.8471**	**0.2231**	**0.1038**	**0.2399**	**0.0000**	**1,639.9839**	**1,639.9839**	**0.3460**	**0.0000**	**1,645.3051**

	ROG	NOx	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	**23.96**	**58.20**	**-9.03**	**0.00**	**19.78**	**81.30**	**30.44**	**18.44**	**81.01**	**45.15**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**8-3-2020**	**11-2-2020**	0.4978	0.1404
2	**11-3-2020**	**2-2-2021**	2.8753	1.4244
3	**2-3-2021**	**5-2-2021**	3.6146	1.7754
4	**5-3-2021**	**8-2-2021**	2.1775	1.0435

5	**8-3-2021**	**11-2-2021**	0.7058	0.3183
6	**11-3-2021**	**2-2-2022**	1.9054	0.8759
7	**2-3-2022**	**5-2-2022**	1.7320	0.8240
8	**5-3-2022**	**8-2-2022**	1.7840	0.8454
9	**8-3-2022**	**11-2-2022**	1.7876	0.8490
10	**11-3-2022**	**2-2-2023**	1.7227	0.8151
11	**2-3-2023**	**5-2-2023**	1.5403	0.7159
12	**5-3-2023**	**8-2-2023**	1.5866	0.7344
13	**8-3-2023**	**11-2-2023**	1.5897	0.7375
14	**11-3-2023**	**2-2-2024**	1.5687	0.7397
15	**2-3-2024**	**5-2-2024**	1.4852	0.7145
16	**5-3-2024**	**8-2-2024**	1.5128	0.7249
17	**8-3-2024**	**11-2-2024**	1.5158	0.7279
18	**11-3-2024**	**2-2-2025**	1.4909	0.7301
19	**2-3-2025**	**5-2-2025**	1.3870	0.6979
20	**5-3-2025**	**8-2-2025**	1.4286	0.7163
21	**8-3-2025**	**11-2-2025**	1.4315	0.7191
22	**11-3-2025**	**2-2-2026**	1.4337	0.7213
23	**2-3-2026**	**5-2-2026**	1.3791	0.6899
24	**5-3-2026**	**8-2-2026**	1.4206	0.7082
25	**8-3-2026**	**9-30-2026**	0.1699	0.0847
		Highest	3.6146	1.7754

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	tons/yr										MT/yr					
Area	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
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	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5504**	**0.0501**	**4.3489**	**2.3000e-004**	**0.0000**	**0.0241**	**0.0241**	**0.0000**	**0.0241**	**0.0241**	**0.0000**	**7.1109**	**7.1109**	**6.8100e-003**	**0.0000**	**7.2813**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
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	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5504**	**0.0501**	**4.3489**	**2.3000e-004**	**0.0000**	**0.0241**	**0.0241**	**0.0000**	**0.0241**	**0.0241**	**0.0000**	**7.1109**	**7.1109**	**6.8100e-003**	**0.0000**	**7.2813**

	ROG	NOx	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

Rancho La Habra Project Development (Construction - Mitigated) - Orange County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/3/2020	8/19/2020	5	13	
2	Crushing	Grading	8/3/2020	10/9/2020	5	50	
3	Site Preparation	Site Preparation	8/20/2020	11/25/2020	5	70	
4	Mass Grading	Grading	11/26/2020	6/23/2021	5	150	
5	Precise Grading	Grading	3/1/2021	7/22/2021	5	104	
6	Building Construction	Building Construction	10/1/2021	8/13/2026	5	1270	
7	Paving	Paving	10/1/2021	8/13/2026	5	1270	
8	Architectural Coating	Architectural Coating	10/1/2021	8/13/2026	5	1270	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 2,181,204; Residential Outdoor: 727,068; Non-Residential Indoor: 63,750; Non-Residential Outdoor: 21,250; 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	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Crushing	Crushing/Proc. Equipment	1	8.00	200	0.78
Crushing	Excavators	0	8.00	158	0.38
Crushing	Graders	0	8.00	187	0.41
Crushing	Rubber Tired Dozers	0	8.00	247	0.40

Crushing	Scrapers	0	8.00	367	0.48
Crushing	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Mass Grading	Excavators	0	8.00	158	0.38
Mass Grading	Graders	0	8.00	187	0.41
Mass Grading	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading	Scrapers	6	8.00	585	0.48
Mass Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Precise Grading	Excavators	0	8.00	158	0.38
Precise Grading	Graders	0	8.00	187	0.41
Precise Grading	Rubber Tired Dozers	0	8.00	247	0.40
Precise Grading	Scrapers	0	8.00	367	0.48
Precise Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

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	4	10.00	0.00	747.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Crushing	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading	8	20.00	0.00	1,875.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Precise Grading	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	400.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	80.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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	tons/yr										MT/yr					
Fugitive Dust					0.0808	0.0000	0.0808	0.0122	0.0000	0.0122	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1167	0.0777	1.3000e-004		6.1000e-003	6.1000e-003		5.6100e-003	5.6100e-003	0.0000	11.3747	11.3747	3.6800e-003	0.0000	11.4667
Total	**0.0113**	**0.1167**	**0.0777**	**1.3000e-004**	**0.0808**	**6.1000e-003**	**0.0869**	**0.0122**	**5.6100e-003**	**0.0179**	**0.0000**	**11.3747**	**11.3747**	**3.6800e-003**	**0.0000**	**11.4667**

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	tons/yr										MT/yr					
Hauling	2.8500e-003	0.1060	0.0266	2.8000e-004	6.4000e-003	3.4000e-004	6.7400e-003	1.7600e-003	3.2000e-004	2.0800e-003	0.0000	28.7212	28.7212	3.0300e-003	0.0000	28.7969
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	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6176	0.6176	1.0000e-005	0.0000	0.6180
Total	**3.1000e-003**	**0.1062**	**0.0286**	**2.9000e-004**	**7.1100e-003**	**3.4000e-004**	**7.4600e-003**	**1.9500e-003**	**3.2000e-004**	**2.2700e-003**	**0.0000**	**29.3388**	**29.3388**	**3.0400e-003**	**0.0000**	**29.4148**

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	tons/yr										MT/yr					
Fugitive Dust					0.0210	0.0000	0.0210	3.1800e-003	0.0000	3.1800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5900e-003	6.8700e-003	0.0808	1.3000e-004		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	11.3747	11.3747	3.6800e-003	0.0000	11.4667
Total	**1.5900e-003**	**6.8700e-003**	**0.0808**	**1.3000e-004**	**0.0210**	**2.1000e-004**	**0.0212**	**3.1800e-003**	**2.1000e-004**	**3.3900e-003**	**0.0000**	**11.3747**	**11.3747**	**3.6800e-003**	**0.0000**	**11.4667**

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	tons/yr										MT/yr					
Hauling	2.8500e-003	0.1060	0.0266	2.8000e-004	6.4000e-003	3.4000e-004	6.7400e-003	1.7600e-003	3.2000e-004	2.0800e-003	0.0000	28.7212	28.7212	3.0300e-003	0.0000	28.7969
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	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6176	0.6176	1.0000e-005	0.0000	0.6180
Total	**3.1000e-003**	**0.1062**	**0.0286**	**2.9000e-004**	**7.1100e-003**	**3.4000e-004**	**7.4600e-003**	**1.9500e-003**	**3.2000e-004**	**2.2700e-003**	**0.0000**	**29.3388**	**29.3388**	**3.0400e-003**	**0.0000**	**29.4148**

3.3 Crushing - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1385	0.0774	4.1000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	35.4619	35.4619	1.6200e-003	0.0000	35.5024
Total	**0.0199**	**0.1385**	**0.0774**	**4.1000e-004**	**0.0000**	**4.4700e-003**	**4.4700e-003**	**0.0000**	**4.4700e-003**	**4.4700e-003**	**0.0000**	**35.4619**	**35.4619**	**1.6200e-003**	**0.0000**	**35.5024**

3.3 Crushing - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	2.9000e-004	2.0000e-004	2.3200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7126	0.7126	2.0000e-005	0.0000	0.7130
Total	**2.9000e-004**	**2.0000e-004**	**2.3200e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7126**	**0.7126**	**2.0000e-005**	**0.0000**	**0.7130**

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1300e-003	0.0179	0.1513	4.1000e-004		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	35.4618	35.4618	1.6200e-003	0.0000	35.5024
Total	**4.1300e-003**	**0.0179**	**0.1513**	**4.1000e-004**	**0.0000**	**5.5000e-004**	**5.5000e-004**	**0.0000**	**5.5000e-004**	**5.5000e-004**	**0.0000**	**35.4618**	**35.4618**	**1.6200e-003**	**0.0000**	**35.5024**

3.3 Crushing - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	2.9000e-004	2.0000e-004	2.3200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7126	0.7126	2.0000e-005	0.0000	0.7130
Total	**2.9000e-004**	**2.0000e-004**	**2.3200e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7126**	**0.7126**	**2.0000e-005**	**0.0000**	**0.7130**

3.4 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1474	0.1596	2.2000e-004		9.3200e-003	9.3200e-003		8.5700e-003	8.5700e-003	0.0000	19.0997	19.0997	6.1800e-003	0.0000	19.2541
Total	**0.0147**	**0.1474**	**0.1596**	**2.2000e-004**	**0.0000**	**9.3200e-003**	**9.3200e-003**	**0.0000**	**8.5700e-003**	**8.5700e-003**	**0.0000**	**19.0997**	**19.0997**	**6.1800e-003**	**0.0000**	**19.2541**

3.4 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	5.4200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6628	1.6628	4.0000e-005	0.0000	1.6637
Total	**6.8000e-004**	**4.8000e-004**	**5.4200e-003**	**2.0000e-005**	**1.9200e-003**	**1.0000e-005**	**1.9300e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.6628**	**1.6628**	**4.0000e-005**	**0.0000**	**1.6637**

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0115	0.1639	2.2000e-004		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	19.0997	19.0997	6.1800e-003	0.0000	19.2541
Total	**2.6600e-003**	**0.0115**	**0.1639**	**2.2000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**3.5000e-004**	**0.0000**	**19.0997**	**19.0997**	**6.1800e-003**	**0.0000**	**19.2541**

3.4 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.8000e-004	4.8000e-004	5.4200e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6628	1.6628	4.0000e-005	0.0000	1.6637
Total	**6.8000e-004**	**4.8000e-004**	**5.4200e-003**	**2.0000e-005**	**1.9200e-003**	**1.0000e-005**	**1.9300e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.6628**	**1.6628**	**4.0000e-005**	**0.0000**	**1.6637**

3.5 Mass 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	tons/yr										MT/yr					
Fugitive Dust					0.5564	0.0000	0.5564	0.0947	0.0000	0.0947	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1180	1.3822	0.7497	2.0300e-003		0.0527	0.0527		0.0485	0.0485	0.0000	178.6333	178.6333	0.0578	0.0000	180.0776
Total	**0.1180**	**1.3822**	**0.7497**	**2.0300e-003**	**0.5564**	**0.0527**	**0.6090**	**0.0947**	**0.0485**	**0.1432**	**0.0000**	**178.6333**	**178.6333**	**0.0578**	**0.0000**	**180.0776**

3.5 Mass 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	tons/yr										MT/yr					
Hauling	1.2400e-003	0.0461	0.0116	1.2000e-004	0.0128	1.5000e-004	0.0130	3.2300e-003	1.4000e-004	3.3700e-003	0.0000	12.4958	12.4958	1.3200e-003	0.0000	12.5288
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	0.0000	0.0000
Worker	1.0100e-003	7.1000e-004	8.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4704	2.4704	6.0000e-005	0.0000	2.4718
Total	**2.2500e-003**	**0.0468**	**0.0196**	**1.5000e-004**	**0.0157**	**1.7000e-004**	**0.0158**	**3.9900e-003**	**1.6000e-004**	**4.1500e-003**	**0.0000**	**14.9663**	**14.9663**	**1.3800e-003**	**0.0000**	**15.0006**

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	tons/yr										MT/yr					
Fugitive Dust					0.1447	0.0000	0.1447	0.0246	0.0000	0.0246	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0641	0.6620	0.8384	2.0300e-003		0.0237	0.0237		0.0219	0.0219	0.0000	178.6331	178.6331	0.0578	0.0000	180.0774
Total	**0.0641**	**0.6620**	**0.8384**	**2.0300e-003**	**0.1447**	**0.0237**	**0.1683**	**0.0246**	**0.0219**	**0.0465**	**0.0000**	**178.6331**	**178.6331**	**0.0578**	**0.0000**	**180.0774**

3.5 Mass 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	tons/yr										MT/yr					
Hauling	1.2400e-003	0.0461	0.0116	1.2000e-004	0.0128	1.5000e-004	0.0130	3.2300e-003	1.4000e-004	3.3700e-003	0.0000	12.4958	12.4958	1.3200e-003	0.0000	12.5288
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	0.0000	0.0000
Worker	1.0100e-003	7.1000e-004	8.0600e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4704	2.4704	6.0000e-005	0.0000	2.4718
Total	**2.2500e-003**	**0.0468**	**0.0196**	**1.5000e-004**	**0.0157**	**1.7000e-004**	**0.0158**	**3.9900e-003**	**1.6000e-004**	**4.1500e-003**	**0.0000**	**14.9663**	**14.9663**	**1.3800e-003**	**0.0000**	**15.0006**

3.5 Mass Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.8514	0.0000	0.8514	0.2569	0.0000	0.2569	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5379	6.1166	3.4445	9.7000e-003		0.2339	0.2339		0.2152	0.2152	0.0000	851.9650	851.9650	0.2755	0.0000	858.8536
Total	**0.5379**	**6.1166**	**3.4445**	**9.7000e-003**	**0.8514**	**0.2339**	**1.0853**	**0.2569**	**0.2152**	**0.4721**	**0.0000**	**851.9650**	**851.9650**	**0.2755**	**0.0000**	**858.8536**

3.5 Mass Grading - 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	tons/yr										MT/yr					
Hauling	5.6400e-003	0.2032	0.0553	5.8000e-004	0.0154	6.2000e-004	0.0160	4.1600e-003	6.0000e-004	4.7600e-003	0.0000	58.8648	58.8648	6.2000e-003	0.0000	59.0198
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	0.0000	0.0000
Worker	4.5400e-003	3.0500e-003	0.0356	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6200e-003	8.0000e-005	3.7000e-003	0.0000	11.3732	11.3732	2.4000e-004	0.0000	11.3792
Total	**0.0102**	**0.2062**	**0.0909**	**7.1000e-004**	**0.0290**	**7.1000e-004**	**0.0297**	**7.7800e-003**	**6.8000e-004**	**8.4600e-003**	**0.0000**	**70.2379**	**70.2379**	**6.4400e-003**	**0.0000**	**70.3991**

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	tons/yr										MT/yr					
Fugitive Dust					0.2214	0.0000	0.2214	0.0668	0.0000	0.0668	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2948	2.9372	3.9365	9.7000e-003		0.1055	0.1055		0.0978	0.0978	0.0000	851.9640	851.9640	0.2755	0.0000	858.8525
Total	**0.2948**	**2.9372**	**3.9365**	**9.7000e-003**	**0.2214**	**0.1055**	**0.3269**	**0.0668**	**0.0978**	**0.1646**	**0.0000**	**851.9640**	**851.9640**	**0.2755**	**0.0000**	**858.8525**

3.5 Mass Grading - 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	tons/yr										MT/yr					
Hauling	5.6400e-003	0.2032	0.0553	5.8000e-004	0.0154	6.2000e-004	0.0160	4.1600e-003	6.0000e-004	4.7600e-003	0.0000	58.8648	58.8648	6.2000e-003	0.0000	59.0198
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	0.0000	0.0000
Worker	4.5400e-003	3.0500e-003	0.0356	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6200e-003	8.0000e-005	3.7000e-003	0.0000	11.3732	11.3732	2.4000e-004	0.0000	11.3792
Total	**0.0102**	**0.2062**	**0.0909**	**7.1000e-004**	**0.0290**	**7.1000e-004**	**0.0297**	**7.7800e-003**	**6.8000e-004**	**8.4600e-003**	**0.0000**	**70.2379**	**70.2379**	**6.4400e-003**	**0.0000**	**70.3991**

3.6 Precise Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.1972	0.2351	3.2000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	28.3891	28.3891	9.1800e-003	0.0000	28.6186
Total	**0.0195**	**0.1972**	**0.2351**	**3.2000e-004**	**0.0000**	**0.0116**	**0.0116**	**0.0000**	**0.0107**	**0.0107**	**0.0000**	**28.3891**	**28.3891**	**9.1800e-003**	**0.0000**	**28.6186**

3.6 Precise Grading - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	9.5000e-004	6.4000e-004	7.4700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3847	2.3847	5.0000e-005	0.0000	2.3860
Total	**9.5000e-004**	**6.4000e-004**	**7.4700e-003**	**3.0000e-005**	**2.8500e-003**	**2.0000e-005**	**2.8700e-003**	**7.6000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.3847**	**2.3847**	**5.0000e-005**	**0.0000**	**2.3860**

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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9500e-003	0.0171	0.2436	3.2000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	28.3891	28.3891	9.1800e-003	0.0000	28.6186
Total	**3.9500e-003**	**0.0171**	**0.2436**	**3.2000e-004**	**0.0000**	**5.3000e-004**	**5.3000e-004**	**0.0000**	**5.3000e-004**	**5.3000e-004**	**0.0000**	**28.3891**	**28.3891**	**9.1800e-003**	**0.0000**	**28.6186**

3.6 Precise Grading - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	9.5000e-004	6.4000e-004	7.4700e-003	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3847	2.3847	5.0000e-005	0.0000	2.3860
Total	**9.5000e-004**	**6.4000e-004**	**7.4700e-003**	**3.0000e-005**	**2.8500e-003**	**2.0000e-005**	**2.8700e-003**	**7.6000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.3847**	**2.3847**	**5.0000e-005**	**0.0000**	**2.3860**

3.7 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	tons/yr										MT/yr					
Off-Road	0.0668	0.6187	0.5831	9.5000e-004		0.0338	0.0338		0.0318	0.0318	0.0000	81.9092	81.9092	0.0202	0.0000	82.4145
Total	**0.0668**	**0.6187**	**0.5831**	**9.5000e-004**		**0.0338**	**0.0338**		**0.0318**	**0.0318**	**0.0000**	**81.9092**	**81.9092**	**0.0202**	**0.0000**	**82.4145**

3.7 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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0129	0.4496	0.1260	1.1500e-003	0.0297	9.3000e-004	0.0306	8.5700e-003	8.9000e-004	9.4600e-003	0.0000	113.8829	113.8829	9.2200e-003	0.0000	114.1134
Worker	0.0484	0.0325	0.3792	1.3400e-003	0.1449	9.6000e-004	0.1459	0.0385	8.8000e-004	0.0394	0.0000	121.0690	121.0690	2.5900e-003	0.0000	121.1338
Total	**0.0612**	**0.4821**	**0.5052**	**2.4900e-003**	**0.1746**	**1.8900e-003**	**0.1765**	**0.0471**	**1.7700e-003**	**0.0488**	**0.0000**	**234.9519**	**234.9519**	**0.0118**	**0.0000**	**235.2472**

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	tons/yr										MT/yr					
Off-Road	0.0116	0.0771	0.6159	9.5000e-004		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	81.9091	81.9091	0.0202	0.0000	82.4144
Total	**0.0116**	**0.0771**	**0.6159**	**9.5000e-004**		**1.4500e-003**	**1.4500e-003**		**1.4500e-003**	**1.4500e-003**	**0.0000**	**81.9091**	**81.9091**	**0.0202**	**0.0000**	**82.4144**

3.7 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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0129	0.4496	0.1260	1.1500e-003	0.0297	9.3000e-004	0.0306	8.5700e-003	8.9000e-004	9.4600e-003	0.0000	113.8829	113.8829	9.2200e-003	0.0000	114.1134
Worker	0.0484	0.0325	0.3792	1.3400e-003	0.1449	9.6000e-004	0.1459	0.0385	8.8000e-004	0.0394	0.0000	121.0690	121.0690	2.5900e-003	0.0000	121.1338
Total	**0.0612**	**0.4821**	**0.5052**	**2.4900e-003**	**0.1746**	**1.8900e-003**	**0.1765**	**0.0471**	**1.7700e-003**	**0.0488**	**0.0000**	**234.9519**	**234.9519**	**0.0118**	**0.0000**	**235.2472**

3.7 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	tons/yr										MT/yr					
Off-Road	0.2359	2.1797	2.2671	3.7500e-003		0.1124	0.1124		0.1056	0.1056	0.0000	322.8033	322.8033	0.0791	0.0000	324.7819
Total	**0.2359**	**2.1797**	**2.2671**	**3.7500e-003**		**0.1124**	**0.1124**		**0.1056**	**0.1056**	**0.0000**	**322.8033**	**322.8033**	**0.0791**	**0.0000**	**324.7819**

3.7 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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0477	1.6738	0.4790	4.4900e-003	0.1170	3.2000e-003	0.1202	0.0338	3.0600e-003	0.0368	0.0000	444.2060	444.2060	0.0352	0.0000	445.0847
Worker	0.1803	0.1160	1.3926	5.0800e-003	0.5709	3.6900e-003	0.5745	0.1516	3.4000e-003	0.1550	0.0000	459.2813	459.2813	9.2700e-003	0.0000	459.5131
Total	**0.2279**	**1.7899**	**1.8716**	**9.5700e-003**	**0.6879**	**6.8900e-003**	**0.6948**	**0.1854**	**6.4600e-003**	**0.1918**	**0.0000**	**903.4874**	**903.4874**	**0.0444**	**0.0000**	**904.5978**

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	tons/yr										MT/yr					
Off-Road	0.0456	0.3035	2.4262	3.7500e-003		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	322.8029	322.8029	0.0791	0.0000	324.7815
Total	**0.0456**	**0.3035**	**2.4262**	**3.7500e-003**		**5.7000e-003**	**5.7000e-003**		**5.7000e-003**	**5.7000e-003**	**0.0000**	**322.8029**	**322.8029**	**0.0791**	**0.0000**	**324.7815**

3.7 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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0477	1.6738	0.4790	4.4900e-003	0.1170	3.2000e-003	0.1202	0.0338	3.0600e-003	0.0368	0.0000	444.2060	444.2060	0.0352	0.0000	445.0847
Worker	0.1803	0.1160	1.3926	5.0800e-003	0.5709	3.6900e-003	0.5745	0.1516	3.4000e-003	0.1550	0.0000	459.2813	459.2813	9.2700e-003	0.0000	459.5131
Total	**0.2279**	**1.7899**	**1.8716**	**9.5700e-003**	**0.6879**	**6.8900e-003**	**0.6948**	**0.1854**	**6.4600e-003**	**0.1918**	**0.0000**	**903.4874**	**903.4874**	**0.0444**	**0.0000**	**904.5978**

3.7 Building Construction - 2023

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	tons/yr										MT/yr					
Off-Road	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9214	322.9214	0.0787	0.0000	324.8880
Total	**0.2176**	**2.0069**	**2.2503**	**3.7500e-003**		**0.0973**	**0.0973**		**0.0914**	**0.0914**	**0.0000**	**322.9214**	**322.9214**	**0.0787**	**0.0000**	**324.8880**

3.7 Building Construction - 2023

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0363	1.2569	0.4442	4.3400e-003	0.1170	1.5400e-003	0.1186	0.0338	1.4700e-003	0.0352	0.0000	430.7860	430.7860	0.0326	0.0000	431.6009
Worker	0.1709	0.1054	1.2971	4.8800e-003	0.5709	3.6300e-003	0.5745	0.1516	3.3400e-003	0.1549	0.0000	441.6407	441.6407	8.4000e-003	0.0000	441.8508
Total	**0.2072**	**1.3622**	**1.7413**	**9.2200e-003**	**0.6879**	**5.1700e-003**	**0.6930**	**0.1854**	**4.8100e-003**	**0.1902**	**0.0000**	**872.4267**	**872.4267**	**0.0410**	**0.0000**	**873.4517**

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	tons/yr										MT/yr					
Off-Road	0.0456	0.3035	2.4262	3.7500e-003		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876
Total	**0.0456**	**0.3035**	**2.4262**	**3.7500e-003**		**5.7000e-003**	**5.7000e-003**		**5.7000e-003**	**5.7000e-003**	**0.0000**	**322.9211**	**322.9211**	**0.0787**	**0.0000**	**324.8876**

3.7 Building Construction - 2023

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0363	1.2569	0.4442	4.3400e-003	0.1170	1.5400e-003	0.1186	0.0338	1.4700e-003	0.0352	0.0000	430.7860	430.7860	0.0326	0.0000	431.6009
Worker	0.1709	0.1054	1.2971	4.8800e-003	0.5709	3.6300e-003	0.5745	0.1516	3.3400e-003	0.1549	0.0000	441.6407	441.6407	8.4000e-003	0.0000	441.8508
Total	**0.2072**	**1.3622**	**1.7413**	**9.2200e-003**	**0.6879**	**5.1700e-003**	**0.6930**	**0.1854**	**4.8100e-003**	**0.1902**	**0.0000**	**872.4267**	**872.4267**	**0.0410**	**0.0000**	**873.4517**

3.7 Building Construction - 2024

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	tons/yr										MT/yr					
Off-Road	0.2053	1.8897	2.2567	3.7800e-003		0.0860	0.0860		0.0808	0.0808	0.0000	325.4719	325.4719	0.0789	0.0000	327.4433
Total	**0.2053**	**1.8897**	**2.2567**	**3.7800e-003**		**0.0860**	**0.0860**		**0.0808**	**0.0808**	**0.0000**	**325.4719**	**325.4719**	**0.0789**	**0.0000**	**327.4433**

3.7 Building Construction - 2024

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0353	1.2506	0.4381	4.3300e-003	0.1179	1.5100e-003	0.1194	0.0340	1.4500e-003	0.0355	0.0000	430.6735	430.6735	0.0323	0.0000	431.4817
Worker	0.1639	0.0967	1.2158	4.7200e-003	0.5753	3.5900e-003	0.5788	0.1528	3.3000e-003	0.1561	0.0000	427.4058	427.4058	7.6800e-003	0.0000	427.5979
Total	**0.1993**	**1.3472**	**1.6539**	**9.0500e-003**	**0.6932**	**5.1000e-003**	**0.6983**	**0.1868**	**4.7500e-003**	**0.1915**	**0.0000**	**858.0793**	**858.0793**	**0.0400**	**0.0000**	**859.0796**

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	tons/yr										MT/yr					
Off-Road	0.0460	0.3059	2.4449	3.7800e-003		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	325.4715	325.4715	0.0789	0.0000	327.4429
Total	**0.0460**	**0.3059**	**2.4449**	**3.7800e-003**		**5.7500e-003**	**5.7500e-003**		**5.7500e-003**	**5.7500e-003**	**0.0000**	**325.4715**	**325.4715**	**0.0789**	**0.0000**	**327.4429**

3.7 Building Construction - 2024

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0353	1.2506	0.4381	4.3300e-003	0.1179	1.5100e-003	0.1194	0.0340	1.4500e-003	0.0355	0.0000	430.6735	430.6735	0.0323	0.0000	431.4817
Worker	0.1639	0.0967	1.2158	4.7200e-003	0.5753	3.5900e-003	0.5788	0.1528	3.3000e-003	0.1561	0.0000	427.4058	427.4058	7.6800e-003	0.0000	427.5979
Total	**0.1993**	**1.3472**	**1.6539**	**9.0500e-003**	**0.6932**	**5.1000e-003**	**0.6983**	**0.1868**	**4.7500e-003**	**0.1915**	**0.0000**	**858.0793**	**858.0793**	**0.0400**	**0.0000**	**859.0796**

3.7 Building Construction - 2025

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	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884
Total	**0.1900**	**1.7443**	**2.2365**	**3.7700e-003**		**0.0737**	**0.0737**		**0.0692**	**0.0692**	**0.0000**	**324.3345**	**324.3345**	**0.0782**	**0.0000**	**326.2884**

3.7 Building Construction - 2025

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0343	1.2294	0.4311	4.2900e-003	0.1175	1.4700e-003	0.1190	0.0339	1.4100e-003	0.0353	0.0000	426.4010	426.4010	0.0318	0.0000	427.1950
Worker	0.1562	0.0883	1.1300	4.5100e-003	0.5731	3.5300e-003	0.5766	0.1522	3.2500e-003	0.1554	0.0000	408.5730	408.5730	7.0000e-003	0.0000	408.7479
Total	**0.1905**	**1.3178**	**1.5611**	**8.8000e-003**	**0.6905**	**5.0000e-003**	**0.6955**	**0.1861**	**4.6600e-003**	**0.1907**	**0.0000**	**834.9740**	**834.9740**	**0.0388**	**0.0000**	**835.9429**

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	tons/yr										MT/yr					
Off-Road	0.0458	0.3047	2.4356	3.7700e-003		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881
Total	**0.0458**	**0.3047**	**2.4356**	**3.7700e-003**		**5.7200e-003**	**5.7200e-003**		**5.7200e-003**	**5.7200e-003**	**0.0000**	**324.3341**	**324.3341**	**0.0782**	**0.0000**	**326.2881**

3.7 Building Construction - 2025

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0343	1.2294	0.4311	4.2900e-003	0.1175	1.4700e-003	0.1190	0.0339	1.4100e-003	0.0353	0.0000	426.4010	426.4010	0.0318	0.0000	427.1950
Worker	0.1562	0.0883	1.1300	4.5100e-003	0.5731	3.5300e-003	0.5766	0.1522	3.2500e-003	0.1554	0.0000	408.5730	408.5730	7.0000e-003	0.0000	408.7479
Total	**0.1905**	**1.3178**	**1.5611**	**8.8000e-003**	**0.6905**	**5.0000e-003**	**0.6955**	**0.1861**	**4.6600e-003**	**0.1907**	**0.0000**	**834.9740**	**834.9740**	**0.0388**	**0.0000**	**835.9429**

3.7 Building Construction - 2026

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	tons/yr										MT/yr					
Off-Road	0.1172	1.0760	1.3796	2.3200e-003		0.0455	0.0455		0.0427	0.0427	0.0000	200.0684	200.0684	0.0482	0.0000	201.2737
Total	**0.1172**	**1.0760**	**1.3796**	**2.3200e-003**		**0.0455**	**0.0455**		**0.0427**	**0.0427**	**0.0000**	**200.0684**	**200.0684**	**0.0482**	**0.0000**	**201.2737**

3.7 Building Construction - 2026

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0207	0.7483	0.2637	2.6300e-003	0.0725	8.9000e-004	0.0734	0.0209	8.5000e-004	0.0218	0.0000	261.4723	261.4723	0.0193	0.0000	261.9554
Worker	0.0926	0.0503	0.6542	2.6800e-003	0.3535	2.1100e-003	0.3556	0.0939	1.9500e-003	0.0958	0.0000	242.9200	242.9200	3.9700e-003	0.0000	243.0191
Total	**0.1132**	**0.7986**	**0.9179**	**5.3100e-003**	**0.4260**	**3.0000e-003**	**0.4290**	**0.1148**	**2.8000e-003**	**0.1176**	**0.0000**	**504.3923**	**504.3923**	**0.0233**	**0.0000**	**504.9745**

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	tons/yr										MT/yr					
Off-Road	0.0283	0.1880	1.5024	2.3200e-003		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	200.0682	200.0682	0.0482	0.0000	201.2735
Total	**0.0283**	**0.1880**	**1.5024**	**2.3200e-003**		**3.5300e-003**	**3.5300e-003**		**3.5300e-003**	**3.5300e-003**	**0.0000**	**200.0682**	**200.0682**	**0.0482**	**0.0000**	**201.2735**

3.7 Building Construction - 2026

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	tons/yr										MT/yr					
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	0.0000	0.0000
Vendor	0.0207	0.7483	0.2637	2.6300e-003	0.0725	8.9000e-004	0.0734	0.0209	8.5000e-004	0.0218	0.0000	261.4723	261.4723	0.0193	0.0000	261.9554
Worker	0.0926	0.0503	0.6542	2.6800e-003	0.3535	2.1100e-003	0.3556	0.0939	1.9500e-003	0.0958	0.0000	242.9200	242.9200	3.9700e-003	0.0000	243.0191
Total	**0.1132**	**0.7986**	**0.9179**	**5.3100e-003**	**0.4260**	**3.0000e-003**	**0.4290**	**0.1148**	**2.8000e-003**	**0.1176**	**0.0000**	**504.3923**	**504.3923**	**0.0233**	**0.0000**	**504.9745**

3.8 Paving - 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	tons/yr										MT/yr					
Off-Road	0.0414	0.4263	0.4836	7.5000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	66.0775	66.0775	0.0214	0.0000	66.6118
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0414**	**0.4263**	**0.4836**	**7.5000e-004**		**0.0224**	**0.0224**		**0.0206**	**0.0206**	**0.0000**	**66.0775**	**66.0775**	**0.0214**	**0.0000**	**66.6118**

3.8 Paving - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	1.8100e-003	1.2200e-003	0.0142	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5401	4.5401	1.0000e-004	0.0000	4.5425
Total	**1.8100e-003**	**1.2200e-003**	**0.0142**	**5.0000e-005**	**5.4300e-003**	**4.0000e-005**	**5.4700e-003**	**1.4400e-003**	**3.0000e-005**	**1.4800e-003**	**0.0000**	**4.5401**	**4.5401**	**1.0000e-004**	**0.0000**	**4.5425**

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	tons/yr										MT/yr					
Off-Road	9.2600e-003	0.0401	0.5708	7.5000e-004		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	66.0774	66.0774	0.0214	0.0000	66.6117
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.2600e-003**	**0.0401**	**0.5708**	**7.5000e-004**		**1.2300e-003**	**1.2300e-003**		**1.2300e-003**	**1.2300e-003**	**0.0000**	**66.0774**	**66.0774**	**0.0214**	**0.0000**	**66.6117**

3.8 Paving - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	1.8100e-003	1.2200e-003	0.0142	5.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.5401	4.5401	1.0000e-004	0.0000	4.5425
Total	**1.8100e-003**	**1.2200e-003**	**0.0142**	**5.0000e-005**	**5.4300e-003**	**4.0000e-005**	**5.4700e-003**	**1.4400e-003**	**3.0000e-005**	**1.4800e-003**	**0.0000**	**4.5401**	**4.5401**	**1.0000e-004**	**0.0000**	**4.5425**

3.8 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	tons/yr										MT/yr					
Off-Road	0.1434	1.4462	1.8955	2.9600e-003		0.0738	0.0738		0.0679	0.0679	0.0000	260.3583	260.3583	0.0842	0.0000	262.4634
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1434**	**1.4462**	**1.8955**	**2.9600e-003**		**0.0738**	**0.0738**		**0.0679**	**0.0679**	**0.0000**	**260.3583**	**260.3583**	**0.0842**	**0.0000**	**262.4634**

3.8 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.7600e-003	4.3500e-003	0.0522	1.9000e-004	0.0214	1.4000e-004	0.0216	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	17.2231	17.2231	3.5000e-004	0.0000	17.2317
Total	**6.7600e-003**	**4.3500e-003**	**0.0522**	**1.9000e-004**	**0.0214**	**1.4000e-004**	**0.0216**	**5.6800e-003**	**1.3000e-004**	**5.8100e-003**	**0.0000**	**17.2231**	**17.2231**	**3.5000e-004**	**0.0000**	**17.2317**

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	tons/yr										MT/yr					
Off-Road	0.0365	0.1580	2.2484	2.9600e-003		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	260.3579	260.3579	0.0842	0.0000	262.4631
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0365**	**0.1580**	**2.2484**	**2.9600e-003**		**4.8600e-003**	**4.8600e-003**		**4.8600e-003**	**4.8600e-003**	**0.0000**	**260.3579**	**260.3579**	**0.0842**	**0.0000**	**262.4631**

3.8 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.7600e-003	4.3500e-003	0.0522	1.9000e-004	0.0214	1.4000e-004	0.0216	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	17.2231	17.2231	3.5000e-004	0.0000	17.2317
Total	**6.7600e-003**	**4.3500e-003**	**0.0522**	**1.9000e-004**	**0.0214**	**1.4000e-004**	**0.0216**	**5.6800e-003**	**1.3000e-004**	**5.8100e-003**	**0.0000**	**17.2231**	**17.2231**	**3.5000e-004**	**0.0000**	**17.2317**

3.8 Paving - 2023

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	tons/yr										MT/yr					
Off-Road	0.1343	1.3249	1.8960	2.9600e-003		0.0663	0.0663		0.0610	0.0610	0.0000	260.3493	260.3493	0.0842	0.0000	262.4543
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1343**	**1.3249**	**1.8960**	**2.9600e-003**		**0.0663**	**0.0663**		**0.0610**	**0.0610**	**0.0000**	**260.3493**	**260.3493**	**0.0842**	**0.0000**	**262.4543**

3.8 Paving - 2023

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.4100e-003	3.9500e-003	0.0486	1.8000e-004	0.0214	1.4000e-004	0.0215	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	16.5615	16.5615	3.2000e-004	0.0000	16.5694
Total	**6.4100e-003**	**3.9500e-003**	**0.0486**	**1.8000e-004**	**0.0214**	**1.4000e-004**	**0.0215**	**5.6800e-003**	**1.3000e-004**	**5.8100e-003**	**0.0000**	**16.5615**	**16.5615**	**3.2000e-004**	**0.0000**	**16.5694**

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	tons/yr										MT/yr					
Off-Road	0.0365	0.1580	2.2484	2.9600e-003		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	260.3490	260.3490	0.0842	0.0000	262.4540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0365**	**0.1580**	**2.2484**	**2.9600e-003**		**4.8600e-003**	**4.8600e-003**		**4.8600e-003**	**4.8600e-003**	**0.0000**	**260.3490**	**260.3490**	**0.0842**	**0.0000**	**262.4540**

3.8 Paving - 2023

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.4100e-003	3.9500e-003	0.0486	1.8000e-004	0.0214	1.4000e-004	0.0215	5.6800e-003	1.3000e-004	5.8100e-003	0.0000	16.5615	16.5615	3.2000e-004	0.0000	16.5694
Total	**6.4100e-003**	**3.9500e-003**	**0.0486**	**1.8000e-004**	**0.0214**	**1.4000e-004**	**0.0215**	**5.6800e-003**	**1.3000e-004**	**5.8100e-003**	**0.0000**	**16.5615**	**16.5615**	**3.2000e-004**	**0.0000**	**16.5694**

3.8 Paving - 2024

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	tons/yr										MT/yr					
Off-Road	0.1295	1.2477	1.9160	2.9900e-003		0.0614	0.0614		0.0565	0.0565	0.0000	262.3476	262.3476	0.0849	0.0000	264.4688
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1295**	**1.2477**	**1.9160**	**2.9900e-003**		**0.0614**	**0.0614**		**0.0565**	**0.0565**	**0.0000**	**262.3476**	**262.3476**	**0.0849**	**0.0000**	**264.4688**

3.8 Paving - 2024

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.1500e-003	3.6300e-003	0.0456	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7300e-003	1.2000e-004	5.8500e-003	0.0000	16.0277	16.0277	2.9000e-004	0.0000	16.0349
Total	**6.1500e-003**	**3.6300e-003**	**0.0456**	**1.8000e-004**	**0.0216**	**1.3000e-004**	**0.0217**	**5.7300e-003**	**1.2000e-004**	**5.8500e-003**	**0.0000**	**16.0277**	**16.0277**	**2.9000e-004**	**0.0000**	**16.0349**

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	tons/yr										MT/yr					
Off-Road	0.0367	0.1592	2.2657	2.9900e-003		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	262.3473	262.3473	0.0849	0.0000	264.4685
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0367**	**0.1592**	**2.2657**	**2.9900e-003**		**4.9000e-003**	**4.9000e-003**		**4.9000e-003**	**4.9000e-003**	**0.0000**	**262.3473**	**262.3473**	**0.0849**	**0.0000**	**264.4685**

3.8 Paving - 2024

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	6.1500e-003	3.6300e-003	0.0456	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7300e-003	1.2000e-004	5.8500e-003	0.0000	16.0277	16.0277	2.9000e-004	0.0000	16.0349
Total	**6.1500e-003**	**3.6300e-003**	**0.0456**	**1.8000e-004**	**0.0216**	**1.3000e-004**	**0.0217**	**5.7300e-003**	**1.2000e-004**	**5.8500e-003**	**0.0000**	**16.0277**	**16.0277**	**2.9000e-004**	**0.0000**	**16.0349**

3.8 Paving - 2025

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	tons/yr										MT/yr					
Off-Road	0.1194	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2513	261.2513	0.0845	0.0000	263.3636
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1194**	**1.1199**	**1.9024**	**2.9800e-003**		**0.0546**	**0.0546**		**0.0503**	**0.0503**	**0.0000**	**261.2513**	**261.2513**	**0.0845**	**0.0000**	**263.3636**

3.8 Paving - 2025

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	5.8600e-003	3.3100e-003	0.0424	1.7000e-004	0.0215	1.3000e-004	0.0216	5.7100e-003	1.2000e-004	5.8300e-003	0.0000	15.3215	15.3215	2.6000e-004	0.0000	15.3281
Total	**5.8600e-003**	**3.3100e-003**	**0.0424**	**1.7000e-004**	**0.0215**	**1.3000e-004**	**0.0216**	**5.7100e-003**	**1.2000e-004**	**5.8300e-003**	**0.0000**	**15.3215**	**15.3215**	**2.6000e-004**	**0.0000**	**15.3281**

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	tons/yr										MT/yr					
Off-Road	0.0366	0.1586	2.2571	2.9800e-003		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	261.2510	261.2510	0.0845	0.0000	263.3633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0366**	**0.1586**	**2.2571**	**2.9800e-003**		**4.8800e-003**	**4.8800e-003**		**4.8800e-003**	**4.8800e-003**	**0.0000**	**261.2510**	**261.2510**	**0.0845**	**0.0000**	**263.3633**

3.8 Paving - 2025

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	5.8600e-003	3.3100e-003	0.0424	1.7000e-004	0.0215	1.3000e-004	0.0216	5.7100e-003	1.2000e-004	5.8300e-003	0.0000	15.3215	15.3215	2.6000e-004	0.0000	15.3281
Total	**5.8600e-003**	**3.3100e-003**	**0.0424**	**1.7000e-004**	**0.0215**	**1.3000e-004**	**0.0216**	**5.7100e-003**	**1.2000e-004**	**5.8300e-003**	**0.0000**	**15.3215**	**15.3215**	**2.6000e-004**	**0.0000**	**15.3281**

3.8 Paving - 2026

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	tons/yr										MT/yr					
Off-Road	0.0737	0.6908	1.1735	1.8400e-003		0.0337	0.0337		0.0310	0.0310	0.0000	161.1550	161.1550	0.0521	0.0000	162.4580
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0737**	**0.6908**	**1.1735**	**1.8400e-003**		**0.0337**	**0.0337**		**0.0310**	**0.0310**	**0.0000**	**161.1550**	**161.1550**	**0.0521**	**0.0000**	**162.4580**

3.8 Paving - 2026

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	3.4700e-003	1.8900e-003	0.0245	1.0000e-004	0.0133	8.0000e-005	0.0133	3.5200e-003	7.0000e-005	3.5900e-003	0.0000	9.1095	9.1095	1.5000e-004	0.0000	9.1132
Total	**3.4700e-003**	**1.8900e-003**	**0.0245**	**1.0000e-004**	**0.0133**	**8.0000e-005**	**0.0133**	**3.5200e-003**	**7.0000e-005**	**3.5900e-003**	**0.0000**	**9.1095**	**9.1095**	**1.5000e-004**	**0.0000**	**9.1132**

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	tons/yr										MT/yr					
Off-Road	0.0226	0.0978	1.3923	1.8400e-003		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	161.1548	161.1548	0.0521	0.0000	162.4578
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0226**	**0.0978**	**1.3923**	**1.8400e-003**		**3.0100e-003**	**3.0100e-003**		**3.0100e-003**	**3.0100e-003**	**0.0000**	**161.1548**	**161.1548**	**0.0521**	**0.0000**	**162.4578**

3.8 Paving - 2026

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	3.4700e-003	1.8900e-003	0.0245	1.0000e-004	0.0133	8.0000e-005	0.0133	3.5200e-003	7.0000e-005	3.5900e-003	0.0000	9.1095	9.1095	1.5000e-004	0.0000	9.1132
Total	**3.4700e-003**	**1.8900e-003**	**0.0245**	**1.0000e-004**	**0.0133**	**8.0000e-005**	**0.0133**	**3.5200e-003**	**7.0000e-005**	**3.5900e-003**	**0.0000**	**9.1095**	**9.1095**	**1.5000e-004**	**0.0000**	**9.1132**

3.9 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6300e-003	0.0672	0.0800	1.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003	0.0000	11.2343	11.2343	7.7000e-004	0.0000	11.2536
Total	**0.1950**	**0.0672**	**0.0800**	**1.3000e-004**		**4.1400e-003**	**4.1400e-003**		**4.1400e-003**	**4.1400e-003**	**0.0000**	**11.2343**	**11.2343**	**7.7000e-004**	**0.0000**	**11.2536**

3.9 Architectural Coating - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	9.6700e-003	6.5000e-003	0.0758	2.7000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8700e-003	0.0000	24.2138	24.2138	5.2000e-004	0.0000	24.2268
Total	**9.6700e-003**	**6.5000e-003**	**0.0758**	**2.7000e-004**	**0.0290**	**1.9000e-004**	**0.0292**	**7.7000e-003**	**1.8000e-004**	**7.8700e-003**	**0.0000**	**24.2138**	**24.2138**	**5.2000e-004**	**0.0000**	**24.2268**

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	tons/yr										MT/yr					
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	5.6700e-003	0.0806	1.3000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	11.2343	11.2343	7.7000e-004	0.0000	11.2536
Total	**0.1867**	**5.6700e-003**	**0.0806**	**1.3000e-004**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**	**0.0000**	**11.2343**	**11.2343**	**7.7000e-004**	**0.0000**	**11.2536**

3.9 Architectural Coating - 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	9.6700e-003	6.5000e-003	0.0758	2.7000e-004	0.0290	1.9000e-004	0.0292	7.7000e-003	1.8000e-004	7.8700e-003	0.0000	24.2138	24.2138	5.2000e-004	0.0000	24.2268
Total	**9.6700e-003**	**6.5000e-003**	**0.0758**	**2.7000e-004**	**0.0290**	**1.9000e-004**	**0.0292**	**7.7000e-003**	**1.8000e-004**	**7.8700e-003**	**0.0000**	**24.2138**	**24.2138**	**5.2000e-004**	**0.0000**	**24.2268**

3.9 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	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0355	0.2441	0.3144	5.2000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	44.2564	44.2564	2.8800e-003	0.0000	44.3284
Total	**0.7657**	**0.2441**	**0.3144**	**5.2000e-004**		**0.0142**	**0.0142**		**0.0142**	**0.0142**	**0.0000**	**44.2564**	**44.2564**	**2.8800e-003**	**0.0000**	**44.3284**

3.9 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0361	0.0232	0.2785	1.0200e-003	0.1142	7.4000e-004	0.1149	0.0303	6.8000e-004	0.0310	0.0000	91.8563	91.8563	1.8500e-003	0.0000	91.9026
Total	**0.0361**	**0.0232**	**0.2785**	**1.0200e-003**	**0.1142**	**7.4000e-004**	**0.1149**	**0.0303**	**6.8000e-004**	**0.0310**	**0.0000**	**91.8563**	**91.8563**	**1.8500e-003**	**0.0000**	**91.9026**

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	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1500e-003	0.0223	0.3176	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.2564	44.2564	2.8800e-003	0.0000	44.3284
Total	**0.7354**	**0.0223**	**0.3176**	**5.2000e-004**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**44.2564**	**44.2564**	**2.8800e-003**	**0.0000**	**44.3284**

3.9 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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0361	0.0232	0.2785	1.0200e-003	0.1142	7.4000e-004	0.1149	0.0303	6.8000e-004	0.0310	0.0000	91.8563	91.8563	1.8500e-003	0.0000	91.9026
Total	**0.0361**	**0.0232**	**0.2785**	**1.0200e-003**	**0.1142**	**7.4000e-004**	**0.1149**	**0.0303**	**6.8000e-004**	**0.0310**	**0.0000**	**91.8563**	**91.8563**	**1.8500e-003**	**0.0000**	**91.9026**

3.9 Architectural Coating - 2023

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	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.2259	0.3139	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3226
Total	**0.7635**	**0.2259**	**0.3139**	**5.2000e-004**		**0.0123**	**0.0123**		**0.0123**	**0.0123**	**0.0000**	**44.2564**	**44.2564**	**2.6500e-003**	**0.0000**	**44.3226**

3.9 Architectural Coating - 2023

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0342	0.0211	0.2594	9.8000e-004	0.1142	7.3000e-004	0.1149	0.0303	6.7000e-004	0.0310	0.0000	88.3282	88.3282	1.6800e-003	0.0000	88.3702
Total	**0.0342**	**0.0211**	**0.2594**	**9.8000e-004**	**0.1142**	**7.3000e-004**	**0.1149**	**0.0303**	**6.7000e-004**	**0.0310**	**0.0000**	**88.3282**	**88.3282**	**1.6800e-003**	**0.0000**	**88.3702**

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	tons/yr										MT/yr					
Archit. Coating	0.7302					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1500e-003	0.0223	0.3176	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.2564	44.2564	2.6500e-003	0.0000	44.3225
Total	**0.7354**	**0.0223**	**0.3176**	**5.2000e-004**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**44.2564**	**44.2564**	**2.6500e-003**	**0.0000**	**44.3225**

3.9 Architectural Coating - 2023

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0342	0.0211	0.2594	9.8000e-004	0.1142	7.3000e-004	0.1149	0.0303	6.7000e-004	0.0310	0.0000	88.3282	88.3282	1.6800e-003	0.0000	88.3702
Total	**0.0342**	**0.0211**	**0.2594**	**9.8000e-004**	**0.1142**	**7.3000e-004**	**0.1149**	**0.0303**	**6.7000e-004**	**0.0310**	**0.0000**	**88.3282**	**88.3282**	**1.6800e-003**	**0.0000**	**88.3702**

3.9 Architectural Coating - 2024

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	tons/yr										MT/yr					
Archit. Coating	0.7359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.2129	0.3162	5.2000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	44.5968	44.5968	2.5100e-003	0.0000	44.6596
Total	**0.7674**	**0.2129**	**0.3162**	**5.2000e-004**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**44.5968**	**44.5968**	**2.5100e-003**	**0.0000**	**44.6596**

3.9 Architectural Coating - 2024

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0328	0.0193	0.2432	9.4000e-004	0.1151	7.2000e-004	0.1158	0.0306	6.6000e-004	0.0312	0.0000	85.4812	85.4812	1.5400e-003	0.0000	85.5196
Total	**0.0328**	**0.0193**	**0.2432**	**9.4000e-004**	**0.1151**	**7.2000e-004**	**0.1158**	**0.0306**	**6.6000e-004**	**0.0312**	**0.0000**	**85.4812**	**85.4812**	**1.5400e-003**	**0.0000**	**85.5196**

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	tons/yr										MT/yr					
Archit. Coating	0.7359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1900e-003	0.0225	0.3201	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.5968	44.5968	2.5100e-003	0.0000	44.6596
Total	**0.7411**	**0.0225**	**0.3201**	**5.2000e-004**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**44.5968**	**44.5968**	**2.5100e-003**	**0.0000**	**44.6596**

3.9 Architectural Coating - 2024

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0328	0.0193	0.2432	9.4000e-004	0.1151	7.2000e-004	0.1158	0.0306	6.6000e-004	0.0312	0.0000	85.4812	85.4812	1.5400e-003	0.0000	85.5196
Total	**0.0328**	**0.0193**	**0.2432**	**9.4000e-004**	**0.1151**	**7.2000e-004**	**0.1158**	**0.0306**	**6.6000e-004**	**0.0312**	**0.0000**	**85.4812**	**85.4812**	**1.5400e-003**	**0.0000**	**85.5196**

3.9 Architectural Coating - 2025

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	tons/yr										MT/yr					
Archit. Coating	0.7331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0297	0.1993	0.3148	5.2000e-004		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	44.4266	44.4266	2.4200e-003	0.0000	44.4872
Total	**0.7628**	**0.1993**	**0.3148**	**5.2000e-004**		**8.9600e-003**	**8.9600e-003**		**8.9600e-003**	**8.9600e-003**	**0.0000**	**44.4266**	**44.4266**	**2.4200e-003**	**0.0000**	**44.4872**

3.9 Architectural Coating - 2025

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0312	0.0177	0.2260	9.0000e-004	0.1146	7.1000e-004	0.1153	0.0304	6.5000e-004	0.0311	0.0000	81.7146	81.7146	1.4000e-003	0.0000	81.7496
Total	**0.0312**	**0.0177**	**0.2260**	**9.0000e-004**	**0.1146**	**7.1000e-004**	**0.1153**	**0.0304**	**6.5000e-004**	**0.0311**	**0.0000**	**81.7146**	**81.7146**	**1.4000e-003**	**0.0000**	**81.7496**

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	tons/yr										MT/yr					
Archit. Coating	0.7331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1700e-003	0.0224	0.3188	5.2000e-004		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	44.4266	44.4266	2.4200e-003	0.0000	44.4872
Total	**0.7382**	**0.0224**	**0.3188**	**5.2000e-004**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**44.4266**	**44.4266**	**2.4200e-003**	**0.0000**	**44.4872**

3.9 Architectural Coating - 2025

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0312	0.0177	0.2260	9.0000e-004	0.1146	7.1000e-004	0.1153	0.0304	6.5000e-004	0.0311	0.0000	81.7146	81.7146	1.4000e-003	0.0000	81.7496
Total	**0.0312**	**0.0177**	**0.2260**	**9.0000e-004**	**0.1146**	**7.1000e-004**	**0.1153**	**0.0304**	**6.5000e-004**	**0.0311**	**0.0000**	**81.7146**	**81.7146**	**1.4000e-003**	**0.0000**	**81.7496**

3.9 Architectural Coating - 2026

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	tons/yr										MT/yr					
Archit. Coating	0.4522					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.1230	0.1942	3.2000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003	0.0000	27.4049	27.4049	1.4900e-003	0.0000	27.4423
Total	**0.4705**	**0.1230**	**0.1942**	**3.2000e-004**		**5.5300e-003**	**5.5300e-003**		**5.5300e-003**	**5.5300e-003**	**0.0000**	**27.4049**	**27.4049**	**1.4900e-003**	**0.0000**	**27.4423**

3.9 Architectural Coating - 2026

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0185	0.0101	0.1309	5.4000e-004	0.0707	4.2000e-004	0.0711	0.0188	3.9000e-004	0.0192	0.0000	48.5840	48.5840	7.9000e-004	0.0000	48.6038
Total	**0.0185**	**0.0101**	**0.1309**	**5.4000e-004**	**0.0707**	**4.2000e-004**	**0.0711**	**0.0188**	**3.9000e-004**	**0.0192**	**0.0000**	**48.5840**	**48.5840**	**7.9000e-004**	**0.0000**	**48.6038**

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	tons/yr										MT/yr					
Archit. Coating	0.4522					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1900e-003	0.0138	0.1967	3.2000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	27.4049	27.4049	1.4900e-003	0.0000	27.4423
Total	**0.4554**	**0.0138**	**0.1967**	**3.2000e-004**		**4.3000e-004**	**4.3000e-004**		**4.3000e-004**	**4.3000e-004**	**0.0000**	**27.4049**	**27.4049**	**1.4900e-003**	**0.0000**	**27.4423**

3.9 Architectural Coating - 2026

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0185	0.0101	0.1309	5.4000e-004	0.0707	4.2000e-004	0.0711	0.0188	3.9000e-004	0.0192	0.0000	48.5840	48.5840	7.9000e-004	0.0000	48.6038
Total	**0.0185**	**0.0101**	**0.1309**	**5.4000e-004**	**0.0707**	**4.2000e-004**	**0.0711**	**0.0188**	**3.9000e-004**	**0.0192**	**0.0000**	**48.5840**	**48.5840**	**7.9000e-004**	**0.0000**	**48.6038**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Supermarket	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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Health Club	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
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Supermarket	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
City Park	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Condo/Townhouse	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Health Club	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
High Turnover (Sit Down Restaurant)	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Single Family Housing	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Supermarket	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Rancho La Habra Project Development (Construction - Mitigated) - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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	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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	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	0.0000
Health Club	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	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	0.0000
Single Family Housing	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	0.0000
Supermarket	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	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**

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	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	0.0000
Health Club	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	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	0.0000
Single Family Housing	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	0.0000
Supermarket	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	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**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Total		**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	tons/yr										MT/yr					
Mitigated	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Unmitigated	4.5504	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813

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	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	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	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	**4.5504**	**0.0501**	**4.3489**	**2.3000e-004**		**0.0241**	**0.0241**		**0.0241**	**0.0241**	**0.0000**	**7.1109**	**7.1109**	**6.8100e-003**	**0.0000**	**7.2813**

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	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	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	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	**4.5504**	**0.0501**	**4.3489**	**2.3000e-004**		**0.0241**	**0.0241**		**0.0241**	**0.0241**	**0.0000**	**7.1109**	**7.1109**	**6.8100e-003**	**0.0000**	**7.2813**

7.0 Water Detail

7.1 Mitigation Measures Water

Rancho La Habra Project Development (Construction - Mitigated) - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.2:

CALEEMOD PROPOSED PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS

Rancho La Habra - Project Development (Operations - Mitigated)

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	42.10	Acre	42.10	1,833,876.00	0
Health Club	22.50	1000sqft	0.52	22,500.00	0
High Turnover (Sit Down Restaurant)	8.00	1000sqft	0.18	8,000.00	0
Condo/Townhouse	145.00	Dwelling Unit	9.06	275,500.00	435
Single Family Housing	277.00	Dwelling Unit	97.86	801,638.00	831
Supermarket	12.00	1000sqft	0.28	12,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	417.5	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Rancho La Habra - Project Development (Operations - Mitigated) - Orange County, Annual

Project Characteristics - CO2 intensity factor represents CO2e intensity factor. The projected 2026 RPS target is derived based on a linear trajectory to reach the 50% project RPS consistent with SB 32 and SB 350.

Land Use - Total Project Area = 150 acres; Average Condo Size = 1,900 SF; Average Single Family Home Size = 2,894 SF

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Based on TIA (Linscott Law & Greenspan Engineers) and ITE Trip Generation Manual, 10th Edition

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Woodstoves -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 53% (residential) and 30% (nonresidential) to reflect 2019 Title 24 requirements.

Land Use Change -

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	200.00	1.00
tblEnergyUse	LightingElect	1,001.10	470.52
tblEnergyUse	LightingElect	2.99	2.09
tblEnergyUse	LightingElect	7.66	5.36
tblEnergyUse	LightingElect	1,608.84	756.15
tblEnergyUse	LightingElect	8.68	6.08
tblEnergyUse	T24E	172.41	81.03

tblEnergyUse	T24E	1.63	1.14
tblEnergyUse	T24E	8.71	6.10
tblEnergyUse	T24E	253.73	119.25
tblEnergyUse	T24E	4.71	3.30
tblEnergyUse	T24NG	12,129.63	5,700.93
tblEnergyUse	T24NG	14.04	9.83
tblEnergyUse	T24NG	78.56	54.99
tblEnergyUse	T24NG	20,288.91	9,535.79
tblEnergyUse	T24NG	9.95	6.97
tblLandUse	LandUseSquareFeet	145,000.00	275,500.00
tblLandUse	LandUseSquareFeet	498,600.00	801,638.00
tblLandUse	LotAcreage	89.94	97.86
tblLandUse	Population	415.00	435.00
tblLandUse	Population	792.00	831.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	417.5
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleEF	HHD	0.39	0.03
tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	7.1096e-007
tblVehicleEF	HHD	1.40	6.05
tblVehicleEF	HHD	1.30	0.68
tblVehicleEF	HHD	4.46	9.9764e-003

tblVehicleEF	HHD	3,712.33	976.34
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.24	5.17
tblVehicleEF	HHD	1.64	2.36
tblVehicleEF	HHD	8.2750e-003	2.6957e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	9.1330e-007
tblVehicleEF	HHD	7.9170e-003	2.5791e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7591e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	8.3975e-007
tblVehicleEF	HHD	1.1800e-004	2.5844e-006
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tblVehicleEF	HHD	4.4000e-004	4.8309e-004
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tblVehicleEF	HHD	0.03	8.8967e-003
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tblVehicleEF	HHD	1.1800e-004	2.5844e-006
tblVehicleEF	HHD	4.7610e-003	1.0888e-004

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tblVehicleEF	HHD	9.2000e-005	1.8835e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.4000e-004	4.8309e-004
tblVehicleEF	HHD	0.09	4.0699e-006
tblVehicleEF	HHD	0.37	0.03
tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	6.8287e-007
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tblVehicleEF	HHD	1.31	0.68
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tblVehicleEF	HHD	1,567.60	1,325.78
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tblVehicleEF	HHD	1.55	2.24
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tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
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tblVehicleEF	HHD	1.6800e-004	3.7475e-006

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tblVehicleEF	HHD	4.2300e-004	4.7071e-004
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tblVehicleEF	HHD	0.17	8.7798e-004
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tblVehicleEF	LDA	2.0000e-003	2.0000e-003
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tblVehicleEF	LDA	0.07	0.07

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tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
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tblVehicleEF	LDA	2.1900e-003	1.5539e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
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tblVehicleEF	LDA	0.07	0.08
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tblVehicleEF	LDA	0.04	0.15
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tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
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tblVehicleEF	LDA	0.04	0.16
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tblVehicleEF	LDT1	1.69	1.92
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tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
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tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
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tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
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tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.11	0.22

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tblVehicleEF	LDT1	6.4900e-004	5.5911e-004
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tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.12	0.24
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tblVehicleEF	LDT1	7.1800e-003	0.04
tblVehicleEF	LDT1	0.85	0.85
tblVehicleEF	LDT1	1.46	1.66
tblVehicleEF	LDT1	283.94	281.33
tblVehicleEF	LDT1	61.96	56.01
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.01

tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.10	0.20
tblVehicleEF	LDT1	2.8480e-003	2.7839e-003
tblVehicleEF	LDT1	6.4500e-004	5.5423e-004
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	5.8680e-003	3.1636e-003
tblVehicleEF	LDT1	8.1630e-003	0.05
tblVehicleEF	LDT1	0.76	0.76
tblVehicleEF	LDT1	1.74	1.98
tblVehicleEF	LDT1	268.81	268.31
tblVehicleEF	LDT1	61.96	56.61
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1560e-003	1.6205e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	1.9830e-003	1.4905e-003
tblVehicleEF	LDT1	2.5640e-003	1.7819e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15

tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.11	0.23
tblVehicleEF	LDT1	2.6960e-003	2.6552e-003
tblVehicleEF	LDT1	6.4900e-004	5.6018e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.12	0.25
tblVehicleEF	LDT2	3.9670e-003	2.4814e-003
tblVehicleEF	LDT2	3.9510e-003	0.05
tblVehicleEF	LDT2	0.58	0.66
tblVehicleEF	LDT2	0.97	2.27
tblVehicleEF	LDT2	305.47	284.99
tblVehicleEF	LDT2	68.50	59.63
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003

tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.8490e-003	9.4619e-003
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0580e-003	2.8192e-003
tblVehicleEF	LDT2	7.0100e-004	5.9004e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	4.1900e-003	2.6377e-003
tblVehicleEF	LDT2	3.5660e-003	0.04
tblVehicleEF	LDT2	0.63	0.72
tblVehicleEF	LDT2	0.84	1.96
tblVehicleEF	LDT2	317.98	294.00
tblVehicleEF	LDT2	68.50	59.06
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	9.9749e-003
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.19
tblVehicleEF	LDT2	3.1840e-003	2.9084e-003
tblVehicleEF	LDT2	6.9900e-004	5.8443e-004
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.8920e-003	2.4323e-003
tblVehicleEF	LDT2	4.0310e-003	0.05
tblVehicleEF	LDT2	0.56	0.64
tblVehicleEF	LDT2	0.99	2.34
tblVehicleEF	LDT2	300.86	281.66
tblVehicleEF	LDT2	68.50	59.75
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8320e-003	1.3688e-003
tblVehicleEF	LDT2	2.3500e-003	1.5746e-003

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4478e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.6640e-003	9.2897e-003
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0120e-003	2.7863e-003
tblVehicleEF	LDT2	7.0100e-004	5.9127e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LHD1	4.4070e-003	4.8055e-003
tblVehicleEF	LHD1	5.8690e-003	3.0275e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34
tblVehicleEF	LHD1	1.81	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.77

tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.79	0.46
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003
tblVehicleEF	LHD1	3.1600e-004	1.0657e-004
tblVehicleEF	LHD1	2.2360e-003	1.6924e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4970e-003	1.1453e-003
tblVehicleEF	LHD1	0.06	0.04

tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.4070e-003	4.8154e-003
tblVehicleEF	LHD1	5.9560e-003	3.0669e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.49	0.35
tblVehicleEF	LHD1	1.73	0.86
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.71
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.75	0.43
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	3.1160e-003	2.3665e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0060e-003	1.5423e-003

tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.24	0.35
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9308e-003
tblVehicleEF	LHD1	3.1400e-004	1.0594e-004
tblVehicleEF	LHD1	3.1160e-003	2.3665e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0060e-003	1.5423e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.24	0.35
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.4070e-003	4.8037e-003
tblVehicleEF	LHD1	5.8460e-003	3.0170e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34
tblVehicleEF	LHD1	1.82	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.54
tblVehicleEF	LHD1	28.18	10.78
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.78	0.45
tblVehicleEF	LHD1	8.7400e-004	8.8595e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.8780e-003

tblVehicleEF	LHD1	8.7310e-003	5.8755e-003
tblVehicleEF	LHD1	6.9400e-004	2.0728e-004
tblVehicleEF	LHD1	8.3600e-004	8.4762e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5920e-003	2.4695e-003
tblVehicleEF	LHD1	8.3350e-003	5.5985e-003
tblVehicleEF	LHD1	6.3800e-004	1.9059e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4342e-005
tblVehicleEF	LHD1	5.5660e-003	5.9307e-003
tblVehicleEF	LHD1	3.1600e-004	1.0666e-004
tblVehicleEF	LHD1	2.2730e-003	1.7163e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4980e-003	1.1477e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD2	3.1600e-003	3.4118e-003
tblVehicleEF	LHD2	2.5500e-003	2.5031e-003
tblVehicleEF	LHD2	5.1240e-003	7.7083e-003

tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.00	0.59
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.32
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.39	0.52
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003

tblVehicleEF	LHD2	2.6400e-004	8.2343e-005
tblVehicleEF	LHD2	7.8600e-004	1.0733e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5924e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4188e-003
tblVehicleEF	LHD2	2.5710e-003	2.5214e-003
tblVehicleEF	LHD2	4.9820e-003	7.4668e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	0.96	0.57
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.28
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.36	0.49
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003

tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6300e-004	8.1932e-005
tblVehicleEF	LHD2	1.1030e-003	1.5037e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0231e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4105e-003
tblVehicleEF	LHD2	2.5450e-003	2.4983e-003
tblVehicleEF	LHD2	5.1530e-003	7.7580e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.01	0.60
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89

tblVehicleEF	LHD2	24.66	8.33
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.38	0.51
tblVehicleEF	LHD2	1.1000e-003	1.3293e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4584e-003
tblVehicleEF	LHD2	3.7900e-004	1.1948e-004
tblVehicleEF	LHD2	1.0520e-003	1.2718e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6850e-003	2.6627e-003
tblVehicleEF	LHD2	7.2730e-003	9.0361e-003
tblVehicleEF	LHD2	3.4900e-004	1.0985e-004
tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4780e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2702e-004
tblVehicleEF	LHD2	5.7380e-003	5.9622e-003
tblVehicleEF	LHD2	2.6400e-004	8.2408e-005
tblVehicleEF	LHD2	7.7000e-004	1.0625e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4780e-004

tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.64	17.81
tblVehicleEF	MCY	9.65	8.54
tblVehicleEF	MCY	179.17	214.60
tblVehicleEF	MCY	43.54	58.63
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.32	2.33
tblVehicleEF	MCY	0.57	1.70
tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.1500e-003	2.1237e-003
tblVehicleEF	MCY	6.5200e-004	5.8022e-004
tblVehicleEF	MCY	1.12	1.14

tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.90	2.91
tblVehicleEF	MCY	0.57	1.70
tblVehicleEF	MCY	2.18	1.93
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.03	17.19
tblVehicleEF	MCY	8.86	7.81
tblVehicleEF	MCY	179.17	213.43
tblVehicleEF	MCY	43.54	56.86
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.27	2.28
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.81	1.59
tblVehicleEF	MCY	2.1390e-003	2.1121e-003

tblVehicleEF	MCY	6.3300e-004	5.6267e-004
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.84	2.85
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.97	1.73
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	17.73	17.90
tblVehicleEF	MCY	9.78	8.67
tblVehicleEF	MCY	179.17	214.78
tblVehicleEF	MCY	43.54	58.95
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3120e-003	2.2964e-003
tblVehicleEF	MCY	3.4500e-003	2.9776e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1580e-003	2.1432e-003
tblVehicleEF	MCY	3.2350e-003	2.7922e-003
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.33	2.34
tblVehicleEF	MCY	0.66	1.98

tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1520e-003	2.1254e-003
tblVehicleEF	MCY	6.5500e-004	5.8338e-004
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MDV	6.8660e-003	2.9640e-003
tblVehicleEF	MDV	8.3060e-003	0.06
tblVehicleEF	MDV	0.83	0.71
tblVehicleEF	MDV	1.63	2.44
tblVehicleEF	MDV	419.30	353.65
tblVehicleEF	MDV	92.03	72.42
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.07	0.08

tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.09	0.37
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	4.1950e-003	3.4955e-003
tblVehicleEF	MDV	9.4800e-004	7.1663e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.37
tblVehicleEF	MDV	0.12	0.28
tblVehicleEF	MDV	7.2430e-003	3.1499e-003
tblVehicleEF	MDV	7.4810e-003	0.05
tblVehicleEF	MDV	0.90	0.78
tblVehicleEF	MDV	1.42	2.11
tblVehicleEF	MDV	435.95	362.92
tblVehicleEF	MDV	92.03	71.80
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8480e-003	1.4199e-003
tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003
tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.09	0.11

tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.10	0.23
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tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
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tblVehicleEF	MDV	0.08	0.05
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tblVehicleEF	MDV	2.2760e-003	1.5902e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.7020e-003	1.3092e-003

tblVehicleEF	MDV	2.0930e-003	1.4622e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
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tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
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tblVehicleEF	MH	0.01	3.0182e-003
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tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.24	0.00
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tblVehicleEF	MH	0.05	0.00
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tblVehicleEF	MH	0.01	3.0182e-003
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tblVehicleEF	MH	0.02	0.08

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tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.25	0.00
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tblVehicleEF	MHD	8.3800e-004	4.4901e-004
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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	6.7000e-005	1.5609e-004
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tblVehicleEF	MHD	0.01	9.0981e-003
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tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.27	0.05

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tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
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tblVehicleEF	OBUS	0.04	0.22

tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	7.6600e-004	7.6663e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8266e-004
tblVehicleEF	OBUS	1.3340e-003	1.6535e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.4900e-004	9.1533e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	0.01	8.6902e-003
tblVehicleEF	OBUS	4.5620e-003	3.5422e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.58
tblVehicleEF	OBUS	0.34	0.43
tblVehicleEF	OBUS	4.28	2.01
tblVehicleEF	OBUS	82.70	79.60
tblVehicleEF	OBUS	1,197.99	1,276.23
tblVehicleEF	OBUS	68.49	18.27
tblVehicleEF	OBUS	0.16	0.30
tblVehicleEF	OBUS	0.52	0.89
tblVehicleEF	OBUS	1.2000e-005	9.5363e-005
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004

tblVehicleEF	OBUS	1.2000e-005	9.1238e-005
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0190e-003	1.2350e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.27	0.10
tblVehicleEF	OBUS	8.0100e-004	7.5810e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6000e-004	1.8084e-004
tblVehicleEF	OBUS	1.8370e-003	2.2633e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.0190e-003	1.2350e-003
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.30	0.11
tblVehicleEF	OBUS	0.01	8.5167e-003
tblVehicleEF	OBUS	4.4690e-003	3.4503e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.59
tblVehicleEF	OBUS	0.33	0.42

tblVehicleEF	OBUS	4.54	2.13
tblVehicleEF	OBUS	73.90	81.75
tblVehicleEF	OBUS	1,197.99	1,276.22
tblVehicleEF	OBUS	68.49	18.49
tblVehicleEF	OBUS	0.15	0.34
tblVehicleEF	OBUS	0.54	0.93
tblVehicleEF	OBUS	1.8000e-005	1.2384e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.5110e-003	6.5795e-003
tblVehicleEF	OBUS	9.3700e-004	2.0266e-004
tblVehicleEF	OBUS	1.7000e-005	1.1848e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.3820e-003	6.2779e-003
tblVehicleEF	OBUS	8.6200e-004	1.8634e-004
tblVehicleEF	OBUS	1.3260e-003	1.6532e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.3600e-004	9.0323e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	7.1700e-004	7.7840e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8296e-004
tblVehicleEF	OBUS	1.3260e-003	1.6532e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	7.3600e-004	9.0323e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.24
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.1395e-003
tblVehicleEF	SBUS	0.06	8.9683e-003
tblVehicleEF	SBUS	8.76	3.71
tblVehicleEF	SBUS	0.77	0.76
tblVehicleEF	SBUS	8.04	1.19
tblVehicleEF	SBUS	1,056.06	358.73
tblVehicleEF	SBUS	1,050.26	1,039.84
tblVehicleEF	SBUS	60.45	7.22
tblVehicleEF	SBUS	6.45	3.18
tblVehicleEF	SBUS	2.88	4.33
tblVehicleEF	SBUS	4.9650e-003	3.4992e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.7500e-003	3.3478e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005

tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.43	0.05
tblVehicleEF	SBUS	0.01	3.4332e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4400e-004	7.1436e-005
tblVehicleEF	SBUS	3.5410e-003	1.3075e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.1010e-003	7.7722e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.47	0.06
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.2398e-003
tblVehicleEF	SBUS	0.06	8.0601e-003
tblVehicleEF	SBUS	8.68	3.67
tblVehicleEF	SBUS	0.78	0.77
tblVehicleEF	SBUS	6.64	0.98
tblVehicleEF	SBUS	1,101.09	366.34
tblVehicleEF	SBUS	1,050.26	1,039.86
tblVehicleEF	SBUS	60.45	6.87
tblVehicleEF	SBUS	6.66	3.25

tblVehicleEF	SBUS	2.72	4.08
tblVehicleEF	SBUS	4.1860e-003	2.9567e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	4.0050e-003	2.8288e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.01	3.5052e-003
tblVehicleEF	SBUS	0.01	9.9764e-003
tblVehicleEF	SBUS	7.2000e-004	6.8013e-005
tblVehicleEF	SBUS	4.8740e-003	1.7965e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.50	0.63
tblVehicleEF	SBUS	2.8420e-003	1.0457e-003
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	0.01	0.06

tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	SBUS	0.82	0.10
tblVehicleEF	SBUS	0.01	8.1113e-003
tblVehicleEF	SBUS	0.07	9.0985e-003
tblVehicleEF	SBUS	8.88	3.75
tblVehicleEF	SBUS	0.77	0.75
tblVehicleEF	SBUS	8.17	1.21
tblVehicleEF	SBUS	993.88	348.22
tblVehicleEF	SBUS	1,050.26	1,039.83
tblVehicleEF	SBUS	60.45	7.25
tblVehicleEF	SBUS	6.17	3.08
tblVehicleEF	SBUS	2.83	4.25
tblVehicleEF	SBUS	6.0420e-003	4.2484e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	1.0880e-003	8.8247e-005
tblVehicleEF	SBUS	5.7800e-003	4.0646e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6390e-003	2.5939e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	1.0000e-003	8.1140e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.04	0.44
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.09	0.09

tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.44	0.05
tblVehicleEF	SBUS	9.7890e-003	3.3340e-003
tblVehicleEF	SBUS	0.01	9.9762e-003
tblVehicleEF	SBUS	7.4600e-004	7.1764e-005
tblVehicleEF	SBUS	3.4160e-003	1.2549e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.51	0.63
tblVehicleEF	SBUS	2.0430e-003	7.5317e-004
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.48	0.06
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.68	41.12
tblVehicleEF	UBUS	10.95	1.81
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.55
tblVehicleEF	UBUS	2.86	0.45
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004

tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.88	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6000e-003	1.9349e-004
tblVehicleEF	UBUS	5.0820e-003	7.8097e-004
tblVehicleEF	UBUS	0.08	7.2003e-003
tblVehicleEF	UBUS	3.3330e-003	4.7193e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	0.97	0.11
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	6.71	41.12
tblVehicleEF	UBUS	9.70	1.61
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.20
tblVehicleEF	UBUS	2.69	0.44
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003

tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.82	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.5790e-003	1.9002e-004
tblVehicleEF	UBUS	6.8520e-003	1.0869e-003
tblVehicleEF	UBUS	0.08	7.5211e-003
tblVehicleEF	UBUS	4.4540e-003	6.7240e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.90	0.11
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.67	41.12
tblVehicleEF	UBUS	11.17	1.85
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.62
tblVehicleEF	UBUS	2.81	0.44
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1354e-003
tblVehicleEF	UBUS	1.3470e-003	2.0251e-004

tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5853e-003
tblVehicleEF	UBUS	0.02	2.9839e-003
tblVehicleEF	UBUS	1.2390e-003	1.8620e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.90	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6407e-003
tblVehicleEF	UBUS	1.6040e-003	1.9411e-004
tblVehicleEF	UBUS	5.4900e-003	8.2497e-004
tblVehicleEF	UBUS	0.09	8.0659e-003
tblVehicleEF	UBUS	3.3790e-003	4.6844e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.98	0.11
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	ST_TR	20.87	9.10
tblVehicleTrips	ST_TR	158.37	122.40
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	ST_TR	177.59	177.62
tblVehicleTrips	SU_TR	16.74	5.00
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	SU_TR	26.73	13.60

tblVehicleTrips	SU_TR	131.84	142.64
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	SU_TR	166.44	166.47
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	7.32
tblVehicleTrips	WD_TR	32.93	28.82
tblVehicleTrips	WD_TR	127.15	112.18
tblVehicleTrips	WD_TR	9.52	9.44
tblVehicleTrips	WD_TR	102.24	106.78

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
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	tons/yr										MT/yr					
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**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	5.9326	0.1595	7.0315	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4914
Energy	0.0446	0.3883	0.2155	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	1,085.9797	1,085.9797	0.0532	0.0174	1,092.4826
Mobile	2.0852	4.6587	19.0470	0.0589	6.6127	0.0424	6.6551	1.7689	0.0395	1.8083	0.0000	5,516.8546	5,516.8546	0.3471	0.0000	5,525.5316
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	142.5321	0.0000	142.5321	8.4234	0.0000	353.1173
Water						0.0000	0.0000		0.0000	0.0000	10.3847	224.8603	235.2450	1.0822	0.0284	270.7689
Total	**8.0829**	**5.2638**	**26.3463**	**0.0685**	**6.6127**	**0.5033**	**7.1160**	**1.7689**	**0.5004**	**2.2692**	**197.7413**	**6,930.4626**	**7,128.2039**	**10.0478**	**0.0488**	**7,393.9450**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.5596	0.1288	4.3824	7.3000e-004		0.0305	0.0305		0.0305	0.0305	0.0000	98.3150	98.3150	8.5600e-003	1.6700e-003	99.0273
Energy	0.0446	0.3883	0.2155	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	1,085.9797	1,085.9797	0.0532	0.0174	1,092.4826
Mobile	2.0383	4.3738	17.3990	0.0519	5.8032	0.0377	5.8409	1.5523	0.0351	1.5875	0.0000	4,862.7064	4,862.7064	0.3169	0.0000	4,870.6286
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	142.5321	0.0000	142.5321	8.4234	0.0000	353.1173
Water						0.0000	0.0000		0.0000	0.0000	10.3847	196.0312	206.4160	1.0802	0.0280	241.7664
Total	**6.6630**	**4.9482**	**22.0492**	**0.0551**	**5.8032**	**0.1020**	**5.9053**	**1.5523**	**0.0995**	**1.6518**	**152.9169**	**6,252.5523**	**6,405.4692**	**9.8837**	**0.0470**	**6,666.5755**

	ROG	NOx	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	**17.57**	**6.00**	**16.31**	**19.46**	**12.24**	**79.73**	**17.01**	**12.24**	**80.13**	**27.21**	**22.67**	**9.78**	**10.14**	**1.63**	**3.67**	**9.84**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-1,995.3004
Total	**-1,995.3004**

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	7/29/2019	7/29/2019	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	tons/yr										MT/yr					
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	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

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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	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 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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Pedestrian Network

Implement NEV Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0383	4.3738	17.3990	0.0519	5.8032	0.0377	5.8409	1.5523	0.0351	1.5875	0.0000	4,862.7064	4,862.7064	0.3169	0.0000	4,870.6286
Unmitigated	2.0852	4.6587	19.0470	0.0589	6.6127	0.0424	6.6551	1.7689	0.0395	1.8083	0.0000	5,516.8546	5,516.8546	0.3471	0.0000	5,525.5316

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	210.50	210.50	210.50	605,722	531,576
Condo/Townhouse	1,061.40	1,180.30	910.60	3,611,393	3,169,322
Health Club	648.45	204.75	306.00	1,146,687	1,006,321
High Turnover (Sit Down Restaurant)	897.44	979.20	1141.12	1,286,419	1,128,948
Single Family Housing	2,614.88	2,642.58	2368.35	8,828,617	7,747,906
Supermarket	1,281.36	2,131.44	1997.64	1,985,970	1,742,867
Total	6,714.03	7,348.77	6,934.21	17,464,807	15,326,940

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Condo/Townhouse	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Health Club	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
High Turnover (Sit Down Restaurant)	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Single Family Housing	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Supermarket	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Rancho La Habra - Project Development (Operations - Mitigated) - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	644.7589	644.7589	0.0448	9.2700e-003	648.6398
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	644.7589	644.7589	0.0448	9.2700e-003	648.6398
NaturalGas Mitigated	0.0446	0.3883	0.2155	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	441.2208	441.2208	8.4600e-003	8.0900e-003	443.8428
NaturalGas Unmitigated	0.0446	0.3883	0.2155	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	441.2208	441.2208	8.4600e-003	8.0900e-003	443.8428

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	1.62645e+006	8.7700e-003	0.0749	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	86.7938	86.7938	1.6600e-003	1.5900e-003	87.3096
Health Club	375525	2.0200e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	20.0394	20.0394	3.8000e-004	3.7000e-004	20.1585
High Turnover (Sit Down Restaurant)	1.886e+006	0.0102	0.0925	0.0777	5.5000e-004		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	100.6441	100.6441	1.9300e-003	1.8500e-003	101.2422
Single Family Housing	4.16935e+006	0.0225	0.1921	0.0818	1.2300e-003		0.0155	0.0155		0.0155	0.0155	0.0000	222.4922	222.4922	4.2600e-003	4.0800e-003	223.8143
Supermarket	210840	1.1400e-003	0.0103	8.6800e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.2512	11.2512	2.2000e-004	2.1000e-004	11.3181
Total		**0.0446**	**0.3883**	**0.2154**	**2.4300e-003**		**0.0308**	**0.0308**		**0.0308**	**0.0308**	**0.0000**	**441.2208**	**441.2208**	**8.4500e-003**	**8.1000e-003**	**443.8428**

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	1.62645e+006	8.7700e-003	0.0749	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	86.7938	86.7938	1.6600e-003	1.5900e-003	87.3096
Health Club	375525	2.0200e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	20.0394	20.0394	3.8000e-004	3.7000e-004	20.1585
High Turnover (Sit Down Restaurant)	1.886e+006	0.0102	0.0925	0.0777	5.5000e-004		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	100.6441	100.6441	1.9300e-003	1.8500e-003	101.2422
Single Family Housing	4.16935e+006	0.0225	0.1921	0.0818	1.2300e-003		0.0155	0.0155		0.0155	0.0155	0.0000	222.4922	222.4922	4.2600e-003	4.0800e-003	223.8143
Supermarket	210840	1.1400e-003	0.0103	8.6800e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.2512	11.2512	2.2000e-004	2.1000e-004	11.3181
Total		**0.0446**	**0.3883**	**0.2154**	**2.4300e-003**		**0.0308**	**0.0308**		**0.0308**	**0.0308**	**0.0000**	**441.2208**	**441.2208**	**8.4500e-003**	**8.1000e-003**	**443.8428**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	630251	119.3537	8.2900e-003	1.7200e-003	120.0721
Health Club	158850	30.0822	2.0900e-003	4.3000e-004	30.2633
High Turnover (Sit Down Restaurant)	252560	47.8285	3.3200e-003	6.9000e-004	48.1164
Single Family Housing	1.94769e+006	368.8433	0.0256	5.3000e-003	371.0635
Supermarket	415320	78.6512	5.4600e-003	1.1300e-003	79.1246
Total		**644.7589**	**0.0448**	**9.2700e-003**	**648.6398**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	630251	119.3537	8.2900e-003	1.7200e-003	120.0721
Health Club	158850	30.0822	2.0900e-003	4.3000e-004	30.2633
High Turnover (Sit Down Restaurant)	252560	47.8285	3.3200e-003	6.9000e-004	48.1164
Single Family Housing	1.94769e+006	368.8433	0.0256	5.3000e-003	371.0635
Supermarket	415320	78.6512	5.4600e-003	1.1300e-003	79.1246
Total		**644.7589**	**0.0448**	**9.2700e-003**	**648.6398**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.5596	0.1288	4.3824	7.3000e-004		0.0305	0.0305		0.0305	0.0305	0.0000	98.3150	98.3150	8.5600e-003	1.6700e-003	99.0273
Unmitigated	5.9326	0.1595	7.0315	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4914

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	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.3822	0.1095	2.6826	6.8400e-003		0.4030	0.4030		0.4030	0.4030	44.8245	86.1372	130.9616	0.1337	3.0400e-003	135.2101
Landscaping	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	**5.9326**	**0.1595**	**7.0315**	**7.0700e-003**		**0.4271**	**0.4271**		**0.4271**	**0.4271**	**44.8245**	**93.2481**	**138.0726**	**0.1405**	**3.0400e-003**	**142.4914**

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	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.2200e-003	0.0788	0.0335	5.0000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	91.2041	91.2041	1.7500e-003	1.6700e-003	91.7461
Landscaping	0.1306	0.0501	4.3489	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.8100e-003	0.0000	7.2813
Total	**4.5596**	**0.1288**	**4.3824**	**7.3000e-004**		**0.0305**	**0.0305**		**0.0305**	**0.0305**	**0.0000**	**98.3150**	**98.3150**	**8.5600e-003**	**1.6700e-003**	**99.0273**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Rancho La Habra - Project Development (Operations - Mitigated) - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	206.4160	1.0802	0.0280	241.7664
Unmitigated	235.2450	1.0822	0.0284	270.7689

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 50.1614	105.5372	7.3300e-003	1.5200e-003	106.1725
Condo/Townhouse	9.44733 / 5.95593	38.8239	0.3103	7.7800e-003	48.9017
Health Club	1.33072 / 0.815603	5.4195	0.0437	1.1000e-003	6.8388
High Turnover (Sit Down Restaurant)	2.42827 / 0.154996	7.0842	0.0796	1.9600e-003	9.6571
Single Family Housing	18.0477 / 11.3779	74.1671	0.5928	0.0149	93.4191
Supermarket	1.47922 / 0.045749	4.2131	0.0485	1.1900e-003	5.7798
Total		**235.2450**	**1.0822**	**0.0284**	**270.7689**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 40.1291	84.4298	5.8600e-003	1.2100e-003	84.9380
Condo/Townhouse	9.44733 / 4.76474	36.3177	0.3102	7.7500e-003	46.3804
Health Club	1.33072 / 0.652482	5.0763	0.0437	1.0900e-003	6.4935
High Turnover (Sit Down Restaurant)	2.42827 / 0.123997	7.0190	0.0796	1.9600e-003	9.5915
Single Family Housing	18.0477 / 9.1023	69.3793	0.5925	0.0148	88.6026
Supermarket	1.47922 / 0.0365992	4.1938	0.0485	1.1900e-003	5.7604
Total		**206.4160**	**1.0802**	**0.0280**	**241.7664**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Rancho La Habra - Project Development (Operations - Mitigated) - Orange County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	142.5321	8.4234	0.0000	353.1173
Unmitigated	142.5321	8.4234	0.0000	353.1173

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	66.7	13.5395	0.8002	0.0000	33.5435
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
High Turnover (Sit Down Restaurant)	95.2	19.3247	1.1421	0.0000	47.8762
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Supermarket	67.68	13.7384	0.8119	0.0000	34.0364
Total		**142.5321**	**8.4234**	**0.0000**	**353.1173**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	66.7	13.5395	0.8002	0.0000	33.5435
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
High Turnover (Sit Down Restaurant)	95.2	19.3247	1.1421	0.0000	47.8762
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Supermarket	67.68	13.7384	0.8119	0.0000	34.0364
Total		**142.5321**	**8.4234**	**0.0000**	**353.1173**

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
Emergency Generator	1	0	50	500	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Total	**0.0205**	**0.0573**	**0.0523**	**1.0000e-004**		**3.0200e-003**	**3.0200e-003**		**3.0200e-003**	**3.0200e-003**	**0.0000**	**9.5199**	**9.5199**	**1.3300e-003**	**0.0000**	**9.5533**

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-1,995.3004	0.0000	0.0000	-1,995.3004

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	67.79 / 14.25	-230.7574	0.0000	0.0000	-230.7574
Scrub	25.74 / 54.33	408.8370	0.0000	0.0000	408.8370
Trees	44.51 / 24.93	-2,173.3800	0.0000	0.0000	-2,173.3800
Total		**-1,995.3004**	**0.0000**	**0.0000**	**-1,995.3004**

Rancho La Habra - Project Development (Operations - Mitigated)

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	42.10	Acre	42.10	1,833,876.00	0
Health Club	22.50	1000sqft	0.52	22,500.00	0
High Turnover (Sit Down Restaurant)	8.00	1000sqft	0.18	8,000.00	0
Condo/Townhouse	145.00	Dwelling Unit	9.06	275,500.00	435
Single Family Housing	277.00	Dwelling Unit	97.86	801,638.00	831
Supermarket	12.00	1000sqft	0.28	12,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	367.5	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 intensity factor represents CO2e intensity factor. Intensity factor presented here is 50% projected RPS for 2030 consistent with SB 32 and SB 350.

Land Use - Total Project Area = 150 acres; Average Condo Size = 1,900 SF; Average Single Family Home Size = 2,894 SF

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Based on TIA (Linscott Law & Greenspan Engineers) and ITE Trip Generation Manual, 10th Edition

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Woodstoves -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 53% (residential) and 30% (nonresidential) to reflect 2019 Title 24 requirements.

Land Use Change -

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	200.00	1.00
tblEnergyUse	LightingElect	1,001.10	470.52
tblEnergyUse	LightingElect	2.99	2.09
tblEnergyUse	LightingElect	7.66	5.36
tblEnergyUse	LightingElect	1,608.84	756.15
tblEnergyUse	LightingElect	8.68	6.08

tblEnergyUse	T24E	172.41	81.03
tblEnergyUse	T24E	1.63	1.14
tblEnergyUse	T24E	8.71	6.10
tblEnergyUse	T24E	253.73	119.25
tblEnergyUse	T24E	4.71	3.30
tblEnergyUse	T24NG	12,129.63	5,700.93
tblEnergyUse	T24NG	14.04	9.83
tblEnergyUse	T24NG	78.56	54.99
tblEnergyUse	T24NG	20,288.91	9,535.79
tblEnergyUse	T24NG	9.95	6.97
tblLandUse	LandUseSquareFeet	145,000.00	275,500.00
tblLandUse	LandUseSquareFeet	498,600.00	801,638.00
tblLandUse	LotAcreage	89.94	97.86
tblLandUse	Population	415.00	435.00
tblLandUse	Population	792.00	831.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	367.5
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleEF	HHD	0.33	0.03
tblVehicleEF	HHD	0.17	0.16
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.30	6.04
tblVehicleEF	HHD	1.34	0.74

tblVehicleEF	HHD	4.99	0.01
tblVehicleEF	HHD	3,557.45	904.71
tblVehicleEF	HHD	1,540.31	1,225.38
tblVehicleEF	HHD	15.78	0.08
tblVehicleEF	HHD	11.18	5.05
tblVehicleEF	HHD	1.44	2.22
tblVehicleEF	HHD	5.0130e-003	2.2800e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.5350e-003	0.02
tblVehicleEF	HHD	1.7400e-004	1.0000e-006
tblVehicleEF	HHD	4.7960e-003	2.1820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6690e-003	8.7560e-003
tblVehicleEF	HHD	5.2950e-003	0.02
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.3800e-004	2.0000e-006
tblVehicleEF	HHD	5.4310e-003	9.2000e-005
tblVehicleEF	HHD	0.31	0.40
tblVehicleEF	HHD	1.1000e-004	2.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	5.1200e-004	4.1300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	8.2090e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.3800e-004	2.0000e-006

tblVehicleEF	HHD	5.4310e-003	9.2000e-005
tblVehicleEF	HHD	0.38	0.46
tblVehicleEF	HHD	1.1000e-004	2.0000e-006
tblVehicleEF	HHD	0.25	0.18
tblVehicleEF	HHD	5.1200e-004	4.1300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.31	0.03
tblVehicleEF	HHD	0.17	0.16
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.94	5.96
tblVehicleEF	HHD	1.35	0.74
tblVehicleEF	HHD	4.76	0.01
tblVehicleEF	HHD	3,768.80	894.01
tblVehicleEF	HHD	1,540.31	1,225.38
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tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.5350e-003	0.02
tblVehicleEF	HHD	1.7400e-004	1.0000e-006
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6690e-003	8.7560e-003
tblVehicleEF	HHD	5.2950e-003	0.02
tblVehicleEF	HHD	1.6000e-004	1.0000e-006

tblVehicleEF	HHD	1.9500e-004	3.0000e-006
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tblVehicleEF	HHD	1.4800e-004	2.0000e-006
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tblVehicleEF	HHD	4.9100e-004	3.9800e-004
tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.03	8.1100e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.3500e-004	1.0000e-006
tblVehicleEF	HHD	1.9500e-004	3.0000e-006
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tblVehicleEF	HHD	0.36	0.49
tblVehicleEF	HHD	1.4800e-004	2.0000e-006
tblVehicleEF	HHD	0.25	0.18
tblVehicleEF	HHD	4.9100e-004	3.9800e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.35	0.02
tblVehicleEF	HHD	0.17	8.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.78	5.93
tblVehicleEF	HHD	1.34	0.21
tblVehicleEF	HHD	5.04	0.01
tblVehicleEF	HHD	3,265.58	883.28
tblVehicleEF	HHD	1,540.31	1,116.82
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tblVehicleEF	HHD	10.69	5.16

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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	5.5350e-003	0.02
tblVehicleEF	HHD	1.7400e-004	1.0000e-006
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tblVehicleEF	HHD	8.6690e-003	8.4280e-003
tblVehicleEF	HHD	5.2950e-003	0.02
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.3100e-004	2.0000e-006
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tblVehicleEF	HHD	1.0800e-004	2.0000e-006
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tblVehicleEF	HHD	5.6400e-004	4.5200e-004
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tblVehicleEF	HHD	2.3900e-004	1.0000e-006
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tblVehicleEF	HHD	5.6400e-004	4.5200e-004

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tblVehicleEF	LDA	1.6340e-003	1.1360e-003
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tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.02	0.03
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tblVehicleEF	LDA	0.02	0.11
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tblVehicleEF	LDA	0.06	0.06
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tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.03	0.04
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tblVehicleEF	LDA	0.02	0.10
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tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.9810e-003	5.2030e-003
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tblVehicleEF	LDA	0.02	0.11
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tblVehicleEF	LDA	41.78	41.76
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tblVehicleEF	LDA	1.6340e-003	1.1360e-003
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tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.02	0.03
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tblVehicleEF	LDA	0.03	0.11
tblVehicleEF	LDA	1.8580e-003	1.9950e-003
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tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	7.4070e-003	4.8320e-003
tblVehicleEF	LDA	0.04	0.18
tblVehicleEF	LDA	0.03	0.12
tblVehicleEF	LDT1	4.1590e-003	2.0520e-003
tblVehicleEF	LDT1	5.1730e-003	0.04
tblVehicleEF	LDT1	0.59	0.60
tblVehicleEF	LDT1	1.19	1.69
tblVehicleEF	LDT1	245.47	248.85

tblVehicleEF	LDT1	55.52	51.46
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	1.6120e-003	1.1950e-003
tblVehicleEF	LDT1	2.2750e-003	1.4960e-003
tblVehicleEF	LDT1	1.4830e-003	1.0990e-003
tblVehicleEF	LDT1	2.0920e-003	1.3750e-003
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.01	8.0170e-003
tblVehicleEF	LDT1	0.10	0.38
tblVehicleEF	LDT1	0.07	0.15
tblVehicleEF	LDT1	2.4600e-003	2.4630e-003
tblVehicleEF	LDT1	5.7500e-004	5.0900e-004
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.10	0.38
tblVehicleEF	LDT1	0.08	0.17
tblVehicleEF	LDT1	4.3830e-003	2.1780e-003
tblVehicleEF	LDT1	4.6540e-003	0.03
tblVehicleEF	LDT1	0.64	0.65
tblVehicleEF	LDT1	1.03	1.46
tblVehicleEF	LDT1	255.45	257.51
tblVehicleEF	LDT1	55.52	51.04
tblVehicleEF	LDT1	0.04	0.03

tblVehicleEF	LDT1	1.6120e-003	1.1950e-003
tblVehicleEF	LDT1	2.2750e-003	1.4960e-003
tblVehicleEF	LDT1	1.4830e-003	1.0990e-003
tblVehicleEF	LDT1	2.0920e-003	1.3750e-003
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	0.15	0.11
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	8.4480e-003
tblVehicleEF	LDT1	0.09	0.35
tblVehicleEF	LDT1	0.06	0.14
tblVehicleEF	LDT1	2.5600e-003	2.5480e-003
tblVehicleEF	LDT1	5.7200e-004	5.0500e-004
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	0.15	0.11
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.09	0.35
tblVehicleEF	LDT1	0.07	0.15
tblVehicleEF	LDT1	4.0840e-003	2.0120e-003
tblVehicleEF	LDT1	5.2800e-003	0.04
tblVehicleEF	LDT1	0.57	0.58
tblVehicleEF	LDT1	1.22	1.74
tblVehicleEF	LDT1	241.79	245.66
tblVehicleEF	LDT1	55.52	51.55
tblVehicleEF	LDT1	0.05	0.03
tblVehicleEF	LDT1	1.6120e-003	1.1950e-003
tblVehicleEF	LDT1	2.2750e-003	1.4960e-003

tblVehicleEF	LDT1	1.4830e-003	1.0990e-003
tblVehicleEF	LDT1	2.0920e-003	1.3750e-003
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.16	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.01	7.8730e-003
tblVehicleEF	LDT1	0.12	0.44
tblVehicleEF	LDT1	0.07	0.16
tblVehicleEF	LDT1	2.4230e-003	2.4310e-003
tblVehicleEF	LDT1	5.7600e-004	5.1000e-004
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.16	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.12	0.44
tblVehicleEF	LDT1	0.08	0.17
tblVehicleEF	LDT2	3.0820e-003	1.8160e-003
tblVehicleEF	LDT2	2.7700e-003	0.04
tblVehicleEF	LDT2	0.50	0.57
tblVehicleEF	LDT2	0.78	2.05
tblVehicleEF	LDT2	273.74	254.17
tblVehicleEF	LDT2	60.77	52.84
tblVehicleEF	LDT2	0.04	0.03
tblVehicleEF	LDT2	1.4250e-003	1.0950e-003
tblVehicleEF	LDT2	2.0080e-003	1.3060e-003
tblVehicleEF	LDT2	1.3100e-003	1.0080e-003
tblVehicleEF	LDT2	1.8460e-003	1.2010e-003

tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	7.6610e-003	6.6700e-003
tblVehicleEF	LDT2	0.05	0.31
tblVehicleEF	LDT2	0.04	0.16
tblVehicleEF	LDT2	2.7400e-003	2.5140e-003
tblVehicleEF	LDT2	6.2000e-004	5.2300e-004
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.01	9.6820e-003
tblVehicleEF	LDT2	0.05	0.31
tblVehicleEF	LDT2	0.04	0.18
tblVehicleEF	LDT2	3.2570e-003	1.9320e-003
tblVehicleEF	LDT2	2.5110e-003	0.04
tblVehicleEF	LDT2	0.54	0.62
tblVehicleEF	LDT2	0.69	1.77
tblVehicleEF	LDT2	284.96	262.18
tblVehicleEF	LDT2	60.77	52.34
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	1.4250e-003	1.0950e-003
tblVehicleEF	LDT2	2.0080e-003	1.3060e-003
tblVehicleEF	LDT2	1.3100e-003	1.0080e-003
tblVehicleEF	LDT2	1.8460e-003	1.2010e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.07	0.09

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	8.0930e-003	7.0320e-003
tblVehicleEF	LDT2	0.04	0.28
tblVehicleEF	LDT2	0.03	0.15
tblVehicleEF	LDT2	2.8530e-003	2.5940e-003
tblVehicleEF	LDT2	6.1900e-004	5.1800e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.04	0.28
tblVehicleEF	LDT2	0.04	0.16
tblVehicleEF	LDT2	3.0240e-003	1.7790e-003
tblVehicleEF	LDT2	2.8240e-003	0.04
tblVehicleEF	LDT2	0.48	0.55
tblVehicleEF	LDT2	0.80	2.11
tblVehicleEF	LDT2	269.60	251.22
tblVehicleEF	LDT2	60.77	52.95
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	1.4250e-003	1.0950e-003
tblVehicleEF	LDT2	2.0080e-003	1.3060e-003
tblVehicleEF	LDT2	1.3100e-003	1.0080e-003
tblVehicleEF	LDT2	1.8460e-003	1.2010e-003
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	7.5160e-003	6.5490e-003

tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.04	0.17
tblVehicleEF	LDT2	2.6990e-003	2.4850e-003
tblVehicleEF	LDT2	6.2000e-004	5.2400e-004
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.01	9.5050e-003
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.04	0.18
tblVehicleEF	LHD1	3.6680e-003	4.1900e-003
tblVehicleEF	LHD1	3.7310e-003	2.2040e-003
tblVehicleEF	LHD1	9.1500e-003	8.4190e-003
tblVehicleEF	LHD1	0.13	0.17
tblVehicleEF	LHD1	0.33	0.24
tblVehicleEF	LHD1	1.42	0.81
tblVehicleEF	LHD1	9.03	8.33
tblVehicleEF	LHD1	547.88	565.23
tblVehicleEF	LHD1	24.89	9.69
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.50	0.28
tblVehicleEF	LHD1	8.3500e-004	9.6100e-004
tblVehicleEF	LHD1	0.01	9.9900e-003
tblVehicleEF	LHD1	7.2830e-003	5.0070e-003
tblVehicleEF	LHD1	5.7300e-004	1.8900e-004
tblVehicleEF	LHD1	7.9900e-004	9.1900e-004
tblVehicleEF	LHD1	2.6340e-003	2.4980e-003

tblVehicleEF	LHD1	6.9520e-003	4.7690e-003
tblVehicleEF	LHD1	5.2700e-004	1.7400e-004
tblVehicleEF	LHD1	1.7610e-003	1.4110e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.2230e-003	1.0000e-003
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.21	0.34
tblVehicleEF	LHD1	0.12	0.04
tblVehicleEF	LHD1	8.9000e-005	8.1000e-005
tblVehicleEF	LHD1	5.3450e-003	5.5020e-003
tblVehicleEF	LHD1	2.7500e-004	9.6000e-005
tblVehicleEF	LHD1	1.7610e-003	1.4110e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2230e-003	1.0000e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.21	0.34
tblVehicleEF	LHD1	0.14	0.04
tblVehicleEF	LHD1	3.6680e-003	4.1990e-003
tblVehicleEF	LHD1	3.7730e-003	2.2260e-003
tblVehicleEF	LHD1	8.8380e-003	8.1560e-003
tblVehicleEF	LHD1	0.13	0.17
tblVehicleEF	LHD1	0.33	0.24
tblVehicleEF	LHD1	1.36	0.78
tblVehicleEF	LHD1	9.03	8.33
tblVehicleEF	LHD1	547.88	565.24

tblVehicleEF	LHD1	24.89	9.64
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.48	0.26
tblVehicleEF	LHD1	8.3500e-004	9.6100e-004
tblVehicleEF	LHD1	0.01	9.9900e-003
tblVehicleEF	LHD1	7.2830e-003	5.0070e-003
tblVehicleEF	LHD1	5.7300e-004	1.8900e-004
tblVehicleEF	LHD1	7.9900e-004	9.1900e-004
tblVehicleEF	LHD1	2.6340e-003	2.4980e-003
tblVehicleEF	LHD1	6.9520e-003	4.7690e-003
tblVehicleEF	LHD1	5.2700e-004	1.7400e-004
tblVehicleEF	LHD1	2.4560e-003	1.9770e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.6340e-003	1.3420e-003
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.21	0.33
tblVehicleEF	LHD1	0.12	0.04
tblVehicleEF	LHD1	8.9000e-005	8.1000e-005
tblVehicleEF	LHD1	5.3450e-003	5.5020e-003
tblVehicleEF	LHD1	2.7400e-004	9.5000e-005
tblVehicleEF	LHD1	2.4560e-003	1.9770e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6340e-003	1.3420e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.21	0.33

tblVehicleEF	LHD1	0.13	0.04
tblVehicleEF	LHD1	3.6680e-003	4.1890e-003
tblVehicleEF	LHD1	3.7200e-003	2.1980e-003
tblVehicleEF	LHD1	9.2140e-003	8.4740e-003
tblVehicleEF	LHD1	0.13	0.17
tblVehicleEF	LHD1	0.33	0.24
tblVehicleEF	LHD1	1.43	0.81
tblVehicleEF	LHD1	9.03	8.33
tblVehicleEF	LHD1	547.88	565.23
tblVehicleEF	LHD1	24.89	9.70
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.50	0.27
tblVehicleEF	LHD1	8.3500e-004	9.6100e-004
tblVehicleEF	LHD1	0.01	9.9900e-003
tblVehicleEF	LHD1	7.2830e-003	5.0070e-003
tblVehicleEF	LHD1	5.7300e-004	1.8900e-004
tblVehicleEF	LHD1	7.9900e-004	9.1900e-004
tblVehicleEF	LHD1	2.6340e-003	2.4980e-003
tblVehicleEF	LHD1	6.9520e-003	4.7690e-003
tblVehicleEF	LHD1	5.2700e-004	1.7400e-004
tblVehicleEF	LHD1	1.7580e-003	1.4020e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.2120e-003	9.9300e-004
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.23	0.37
tblVehicleEF	LHD1	0.12	0.04

tblVehicleEF	LHD1	8.9000e-005	8.1000e-005
tblVehicleEF	LHD1	5.3450e-003	5.5020e-003
tblVehicleEF	LHD1	2.7500e-004	9.6000e-005
tblVehicleEF	LHD1	1.7580e-003	1.4020e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2120e-003	9.9300e-004
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.23	0.37
tblVehicleEF	LHD1	0.14	0.04
tblVehicleEF	LHD2	2.6760e-003	2.9380e-003
tblVehicleEF	LHD2	1.9930e-003	2.0540e-003
tblVehicleEF	LHD2	3.4580e-003	5.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.18	0.22
tblVehicleEF	LHD2	0.88	0.52
tblVehicleEF	LHD2	13.52	12.81
tblVehicleEF	LHD2	575.89	573.59
tblVehicleEF	LHD2	22.80	7.31
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.19	0.33
tblVehicleEF	LHD2	1.0200e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.4940e-003	9.3430e-003
tblVehicleEF	LHD2	3.7300e-004	1.0900e-004
tblVehicleEF	LHD2	9.7600e-004	1.3420e-003
tblVehicleEF	LHD2	2.7000e-003	2.6860e-003

tblVehicleEF	LHD2	6.2010e-003	8.9260e-003
tblVehicleEF	LHD2	3.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.2800e-004	8.6500e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.8000e-004	6.5300e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.04	0.16
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2300e-004
tblVehicleEF	LHD2	5.5980e-003	5.5370e-003
tblVehicleEF	LHD2	2.4300e-004	7.2000e-005
tblVehicleEF	LHD2	6.2800e-004	8.6500e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.8000e-004	6.5300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.04	0.16
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	2.6760e-003	2.9440e-003
tblVehicleEF	LHD2	2.0060e-003	2.0660e-003
tblVehicleEF	LHD2	3.3820e-003	5.5360e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.18	0.22
tblVehicleEF	LHD2	0.85	0.50
tblVehicleEF	LHD2	13.52	12.81
tblVehicleEF	LHD2	575.89	573.59

tblVehicleEF	LHD2	22.80	7.27
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.18	0.31
tblVehicleEF	LHD2	1.0200e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.4940e-003	9.3430e-003
tblVehicleEF	LHD2	3.7300e-004	1.0900e-004
tblVehicleEF	LHD2	9.7600e-004	1.3420e-003
tblVehicleEF	LHD2	2.7000e-003	2.6860e-003
tblVehicleEF	LHD2	6.2010e-003	8.9260e-003
tblVehicleEF	LHD2	3.4300e-004	1.0000e-004
tblVehicleEF	LHD2	8.8400e-004	1.2130e-003
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.4400e-004	8.7400e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.04	0.15
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2300e-004
tblVehicleEF	LHD2	5.5980e-003	5.5370e-003
tblVehicleEF	LHD2	2.4200e-004	7.2000e-005
tblVehicleEF	LHD2	8.8400e-004	1.2130e-003
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.4400e-004	8.7400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.04	0.15

tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	2.6760e-003	2.9370e-003
tblVehicleEF	LHD2	1.9900e-003	2.0510e-003
tblVehicleEF	LHD2	3.4730e-003	5.7510e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.18	0.22
tblVehicleEF	LHD2	0.89	0.52
tblVehicleEF	LHD2	13.52	12.81
tblVehicleEF	LHD2	575.89	573.59
tblVehicleEF	LHD2	22.80	7.31
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.18	0.32
tblVehicleEF	LHD2	1.0200e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.4940e-003	9.3430e-003
tblVehicleEF	LHD2	3.7300e-004	1.0900e-004
tblVehicleEF	LHD2	9.7600e-004	1.3420e-003
tblVehicleEF	LHD2	2.7000e-003	2.6860e-003
tblVehicleEF	LHD2	6.2010e-003	8.9260e-003
tblVehicleEF	LHD2	3.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.0400e-004	8.3300e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7200e-004	6.4000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.05	0.17
tblVehicleEF	LHD2	0.05	0.03

tblVehicleEF	LHD2	1.3200e-004	1.2300e-004
tblVehicleEF	LHD2	5.5980e-003	5.5370e-003
tblVehicleEF	LHD2	2.4300e-004	7.2000e-005
tblVehicleEF	LHD2	6.0400e-004	8.3300e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.7200e-004	6.4000e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.17
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	MCY	0.50	0.34
tblVehicleEF	MCY	0.14	0.23
tblVehicleEF	MCY	17.26	17.38
tblVehicleEF	MCY	9.72	8.61
tblVehicleEF	MCY	179.77	214.54
tblVehicleEF	MCY	42.52	57.78
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	2.3880e-003	2.3750e-003
tblVehicleEF	MCY	3.3170e-003	2.8970e-003
tblVehicleEF	MCY	2.2270e-003	2.2150e-003
tblVehicleEF	MCY	3.1010e-003	2.7100e-003
tblVehicleEF	MCY	1.11	1.14
tblVehicleEF	MCY	0.61	0.64
tblVehicleEF	MCY	0.67	0.68
tblVehicleEF	MCY	2.29	2.30
tblVehicleEF	MCY	0.49	1.44
tblVehicleEF	MCY	1.97	1.75

tblVehicleEF	MCY	2.1500e-003	2.1230e-003
tblVehicleEF	MCY	6.4200e-004	5.7200e-004
tblVehicleEF	MCY	1.11	1.14
tblVehicleEF	MCY	0.61	0.64
tblVehicleEF	MCY	0.67	0.68
tblVehicleEF	MCY	2.88	2.89
tblVehicleEF	MCY	0.49	1.44
tblVehicleEF	MCY	2.14	1.91
tblVehicleEF	MCY	0.49	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	16.69	16.79
tblVehicleEF	MCY	8.90	7.85
tblVehicleEF	MCY	179.77	213.45
tblVehicleEF	MCY	42.52	55.99
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	2.3880e-003	2.3750e-003
tblVehicleEF	MCY	3.3170e-003	2.8970e-003
tblVehicleEF	MCY	2.2270e-003	2.2150e-003
tblVehicleEF	MCY	3.1010e-003	2.7100e-003
tblVehicleEF	MCY	1.67	1.71
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	2.25	2.26
tblVehicleEF	MCY	0.46	1.34
tblVehicleEF	MCY	1.78	1.57
tblVehicleEF	MCY	2.1390e-003	2.1120e-003
tblVehicleEF	MCY	6.2300e-004	5.5400e-004

tblVehicleEF	MCY	1.67	1.71
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	2.83	2.83
tblVehicleEF	MCY	0.46	1.34
tblVehicleEF	MCY	1.94	1.71
tblVehicleEF	MCY	0.50	0.34
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.35	17.46
tblVehicleEF	MCY	9.85	8.74
tblVehicleEF	MCY	179.77	214.71
tblVehicleEF	MCY	42.52	58.10
tblVehicleEF	MCY	1.08	1.08
tblVehicleEF	MCY	2.3880e-003	2.3750e-003
tblVehicleEF	MCY	3.3170e-003	2.8970e-003
tblVehicleEF	MCY	2.2270e-003	2.2150e-003
tblVehicleEF	MCY	3.1010e-003	2.7100e-003
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.77	0.81
tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	2.30	2.31
tblVehicleEF	MCY	0.58	1.69
tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.1510e-003	2.1250e-003
tblVehicleEF	MCY	6.4500e-004	5.7500e-004
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.77	0.81

tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	2.89	2.90
tblVehicleEF	MCY	0.58	1.69
tblVehicleEF	MCY	2.18	1.94
tblVehicleEF	MDV	4.9650e-003	2.0140e-003
tblVehicleEF	MDV	5.4700e-003	0.04
tblVehicleEF	MDV	0.66	0.58
tblVehicleEF	MDV	1.21	2.11
tblVehicleEF	MDV	373.54	313.86
tblVehicleEF	MDV	81.39	63.70
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	1.4900e-003	1.1220e-003
tblVehicleEF	MDV	1.9880e-003	1.2940e-003
tblVehicleEF	MDV	1.3720e-003	1.0350e-003
tblVehicleEF	MDV	1.8280e-003	1.1900e-003
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.11	0.10
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.01	7.5990e-003
tblVehicleEF	MDV	0.08	0.32
tblVehicleEF	MDV	0.07	0.18
tblVehicleEF	MDV	3.7360e-003	3.1020e-003
tblVehicleEF	MDV	8.3400e-004	6.3000e-004
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.11	0.10
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.02	0.01

tblVehicleEF	MDV	0.08	0.32
tblVehicleEF	MDV	0.08	0.20
tblVehicleEF	MDV	5.2420e-003	2.1420e-003
tblVehicleEF	MDV	4.9410e-003	0.04
tblVehicleEF	MDV	0.72	0.63
tblVehicleEF	MDV	1.05	1.82
tblVehicleEF	MDV	388.37	321.93
tblVehicleEF	MDV	81.39	63.18
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	1.4900e-003	1.1220e-003
tblVehicleEF	MDV	1.9880e-003	1.2940e-003
tblVehicleEF	MDV	1.3720e-003	1.0350e-003
tblVehicleEF	MDV	1.8280e-003	1.1900e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.11	0.10
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.01	8.0070e-003
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.07	0.16
tblVehicleEF	MDV	3.8850e-003	3.1820e-003
tblVehicleEF	MDV	8.3100e-004	6.2500e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.11	0.10
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.07	0.18

tblVehicleEF	MDV	4.8720e-003	1.9730e-003
tblVehicleEF	MDV	5.5790e-003	0.04
tblVehicleEF	MDV	0.64	0.57
tblVehicleEF	MDV	1.24	2.17
tblVehicleEF	MDV	368.06	310.88
tblVehicleEF	MDV	81.39	63.81
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	1.4900e-003	1.1220e-003
tblVehicleEF	MDV	1.9880e-003	1.2940e-003
tblVehicleEF	MDV	1.3720e-003	1.0350e-003
tblVehicleEF	MDV	1.8280e-003	1.1900e-003
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.01	7.4630e-003
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.08	0.19
tblVehicleEF	MDV	3.6810e-003	3.0720e-003
tblVehicleEF	MDV	8.3400e-004	6.3100e-004
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.08	0.20
tblVehicleEF	MH	6.1270e-003	2.7510e-003
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.38	0.23
tblVehicleEF	MH	3.40	0.00
tblVehicleEF	MH	1,076.55	881.41
tblVehicleEF	MH	55.98	0.00
tblVehicleEF	MH	0.79	2.93
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	8.0700e-004	0.00
tblVehicleEF	MH	3.2310e-003	4.0000e-003
tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	7.4200e-004	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.03	0.06
tblVehicleEF	MH	9.0990e-003	0.00
tblVehicleEF	MH	0.20	0.00
tblVehicleEF	MH	0.01	8.3320e-003
tblVehicleEF	MH	6.1900e-004	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.04	0.07
tblVehicleEF	MH	9.0990e-003	0.00
tblVehicleEF	MH	0.22	0.00
tblVehicleEF	MH	6.2410e-003	2.7510e-003
tblVehicleEF	MH	0.01	0.00

tblVehicleEF	MH	0.39	0.23
tblVehicleEF	MH	3.23	0.00
tblVehicleEF	MH	1,076.55	881.41
tblVehicleEF	MH	55.98	0.00
tblVehicleEF	MH	0.74	2.77
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	8.0700e-004	0.00
tblVehicleEF	MH	3.2310e-003	4.0000e-003
tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	7.4200e-004	0.00
tblVehicleEF	MH	0.67	0.00
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.03	0.06
tblVehicleEF	MH	8.8670e-003	0.00
tblVehicleEF	MH	0.20	0.00
tblVehicleEF	MH	0.01	8.3320e-003
tblVehicleEF	MH	6.1600e-004	0.00
tblVehicleEF	MH	0.67	0.00
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.04	0.07
tblVehicleEF	MH	8.8670e-003	0.00
tblVehicleEF	MH	0.21	0.00
tblVehicleEF	MH	6.0930e-003	2.7510e-003
tblVehicleEF	MH	0.02	0.00

tblVehicleEF	MH	0.38	0.23
tblVehicleEF	MH	3.43	0.00
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tblVehicleEF	MH	55.98	0.00
tblVehicleEF	MH	0.77	2.87
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.01	0.06
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tblVehicleEF	MH	0.01	0.06
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tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.04	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.03	0.06
tblVehicleEF	MH	9.6530e-003	0.00
tblVehicleEF	MH	0.21	0.00
tblVehicleEF	MH	0.01	8.3320e-003
tblVehicleEF	MH	6.1900e-004	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.04	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.03	0.07
tblVehicleEF	MH	9.6530e-003	0.00
tblVehicleEF	MH	0.23	0.00
tblVehicleEF	MHD	0.02	3.7980e-003
tblVehicleEF	MHD	1.8970e-003	7.1500e-004

tblVehicleEF	MHD	0.03	8.4520e-003
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tblVehicleEF	MHD	0.19	0.10
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tblVehicleEF	MHD	1,105.31	877.18
tblVehicleEF	MHD	50.74	9.17
tblVehicleEF	MHD	0.39	0.23
tblVehicleEF	MHD	0.62	0.99
tblVehicleEF	MHD	4.2000e-005	8.8000e-005
tblVehicleEF	MHD	2.8270e-003	6.4920e-003
tblVehicleEF	MHD	6.3100e-004	9.6000e-005
tblVehicleEF	MHD	4.0000e-005	8.4000e-005
tblVehicleEF	MHD	2.7010e-003	6.2070e-003
tblVehicleEF	MHD	5.8000e-004	8.8000e-005
tblVehicleEF	MHD	7.1300e-004	4.1500e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.4600e-004	3.2800e-004
tblVehicleEF	MHD	0.03	8.0600e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.20	0.04
tblVehicleEF	MHD	1.4580e-003	4.7000e-004
tblVehicleEF	MHD	0.01	8.3700e-003
tblVehicleEF	MHD	5.6200e-004	9.1000e-005
tblVehicleEF	MHD	7.1300e-004	4.1500e-004
tblVehicleEF	MHD	0.03	0.02

tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4600e-004	3.2800e-004
tblVehicleEF	MHD	0.04	9.7420e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.22	0.05
tblVehicleEF	MHD	0.01	3.6090e-003
tblVehicleEF	MHD	1.9070e-003	7.2600e-004
tblVehicleEF	MHD	0.03	8.1800e-003
tblVehicleEF	MHD	0.22	0.29
tblVehicleEF	MHD	0.19	0.11
tblVehicleEF	MHD	2.98	0.79
tblVehicleEF	MHD	160.69	49.14
tblVehicleEF	MHD	1,105.31	877.18
tblVehicleEF	MHD	50.74	9.10
tblVehicleEF	MHD	0.40	0.22
tblVehicleEF	MHD	0.59	0.94
tblVehicleEF	MHD	3.6000e-005	7.7000e-005
tblVehicleEF	MHD	2.8270e-003	6.4920e-003
tblVehicleEF	MHD	6.3100e-004	9.6000e-005
tblVehicleEF	MHD	3.4000e-005	7.3000e-005
tblVehicleEF	MHD	2.7010e-003	6.2070e-003
tblVehicleEF	MHD	5.8000e-004	8.8000e-005
tblVehicleEF	MHD	1.0030e-003	5.8300e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.3400e-004	4.3800e-004
tblVehicleEF	MHD	0.03	8.0960e-003

tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.19	0.04
tblVehicleEF	MHD	1.5420e-003	4.6700e-004
tblVehicleEF	MHD	0.01	8.3700e-003
tblVehicleEF	MHD	5.6000e-004	9.0000e-005
tblVehicleEF	MHD	1.0030e-003	5.8300e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.3400e-004	4.3800e-004
tblVehicleEF	MHD	0.04	9.7950e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.21	0.04
tblVehicleEF	MHD	0.02	4.0740e-003
tblVehicleEF	MHD	1.8930e-003	7.1100e-004
tblVehicleEF	MHD	0.03	8.4950e-003
tblVehicleEF	MHD	0.42	0.43
tblVehicleEF	MHD	0.19	0.10
tblVehicleEF	MHD	3.16	0.83
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tblVehicleEF	MHD	1,105.31	877.18
tblVehicleEF	MHD	50.74	9.18
tblVehicleEF	MHD	0.37	0.25
tblVehicleEF	MHD	0.61	0.97
tblVehicleEF	MHD	5.1000e-005	1.0400e-004
tblVehicleEF	MHD	2.8270e-003	6.4920e-003
tblVehicleEF	MHD	6.3100e-004	9.6000e-005
tblVehicleEF	MHD	4.9000e-005	9.9000e-005

tblVehicleEF	MHD	2.7010e-003	6.2070e-003
tblVehicleEF	MHD	5.8000e-004	8.8000e-005
tblVehicleEF	MHD	6.8500e-004	3.9200e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.3700e-004	3.2100e-004
tblVehicleEF	MHD	0.03	8.0490e-003
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.20	0.04
tblVehicleEF	MHD	1.3400e-003	4.7300e-004
tblVehicleEF	MHD	0.01	8.3700e-003
tblVehicleEF	MHD	5.6300e-004	9.1000e-005
tblVehicleEF	MHD	6.8500e-004	3.9200e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	5.3700e-004	3.2100e-004
tblVehicleEF	MHD	0.04	9.7260e-003
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.22	0.05
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tblVehicleEF	OBUS	3.5250e-003	2.3570e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.61
tblVehicleEF	OBUS	0.26	0.28
tblVehicleEF	OBUS	4.09	1.91
tblVehicleEF	OBUS	83.53	82.06
tblVehicleEF	OBUS	1,186.06	1,185.03

tblVehicleEF	OBUS	67.59	16.98
tblVehicleEF	OBUS	0.17	0.35
tblVehicleEF	OBUS	0.49	0.93
tblVehicleEF	OBUS	1.6000e-005	1.1700e-004
tblVehicleEF	OBUS	2.4660e-003	6.7870e-003
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tblVehicleEF	OBUS	9.1200e-004	1.8800e-004
tblVehicleEF	OBUS	1.3420e-003	1.5390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.7200e-004	8.8000e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.26	0.09
tblVehicleEF	OBUS	8.0900e-004	7.8100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4800e-004	1.6800e-004
tblVehicleEF	OBUS	1.3420e-003	1.5390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
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tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.29	0.10
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tblVehicleEF	OBUS	1,186.06	1,185.03
tblVehicleEF	OBUS	67.59	16.82
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tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	2.4660e-003	6.7870e-003
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tblVehicleEF	OBUS	2.3380e-003	6.4760e-003
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tblVehicleEF	OBUS	1.8490e-003	2.1090e-003

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tblVehicleEF	OBUS	3.5100e-003	2.3430e-003
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tblVehicleEF	OBUS	1.9000e-005	1.3500e-004
tblVehicleEF	OBUS	2.4660e-003	6.7870e-003
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tblVehicleEF	OBUS	1.3140e-003	1.5070e-003
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.5300e-004	8.5900e-004

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tblVehicleEF	OBUS	0.26	0.10
tblVehicleEF	OBUS	7.5700e-004	7.9300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4800e-004	1.6800e-004
tblVehicleEF	OBUS	1.3140e-003	1.5070e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5300e-004	8.5900e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.05	0.24
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	SBUS	0.82	0.11
tblVehicleEF	SBUS	7.3470e-003	6.0770e-003
tblVehicleEF	SBUS	0.05	0.01
tblVehicleEF	SBUS	9.27	4.37
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tblVehicleEF	SBUS	2.1230e-003	2.0490e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	8.9650e-003	0.02

tblVehicleEF	SBUS	1.2220e-003	1.0900e-004
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tblVehicleEF	SBUS	2.6130e-003	2.5550e-003
tblVehicleEF	SBUS	8.5570e-003	0.02
tblVehicleEF	SBUS	1.1230e-003	1.0000e-004
tblVehicleEF	SBUS	4.0010e-003	1.7010e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.10	0.51
tblVehicleEF	SBUS	2.3970e-003	1.0400e-003
tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.38	0.06
tblVehicleEF	SBUS	9.8940e-003	3.3560e-003
tblVehicleEF	SBUS	9.8750e-003	9.3000e-003
tblVehicleEF	SBUS	7.6400e-004	8.0000e-005
tblVehicleEF	SBUS	4.0010e-003	1.7010e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.60	0.74
tblVehicleEF	SBUS	2.3970e-003	1.0400e-003
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.42	0.06
tblVehicleEF	SBUS	0.82	0.11
tblVehicleEF	SBUS	7.4470e-003	6.1570e-003
tblVehicleEF	SBUS	0.05	9.1330e-003
tblVehicleEF	SBUS	9.22	4.35
tblVehicleEF	SBUS	0.47	0.59

tblVehicleEF	SBUS	5.76	1.08
tblVehicleEF	SBUS	1,043.40	354.02
tblVehicleEF	SBUS	1,023.12	967.36
tblVehicleEF	SBUS	64.29	7.73
tblVehicleEF	SBUS	4.34	2.51
tblVehicleEF	SBUS	1.68	2.75
tblVehicleEF	SBUS	1.7900e-003	1.7360e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	8.9650e-003	0.02
tblVehicleEF	SBUS	1.2220e-003	1.0900e-004
tblVehicleEF	SBUS	1.7130e-003	1.6610e-003
tblVehicleEF	SBUS	2.6130e-003	2.5550e-003
tblVehicleEF	SBUS	8.5570e-003	0.02
tblVehicleEF	SBUS	1.1230e-003	1.0000e-004
tblVehicleEF	SBUS	5.5110e-003	2.3370e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.10	0.51
tblVehicleEF	SBUS	3.2230e-003	1.3880e-003
tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.34	0.05
tblVehicleEF	SBUS	0.01	3.3950e-003
tblVehicleEF	SBUS	9.8750e-003	9.3000e-003
tblVehicleEF	SBUS	7.4300e-004	7.7000e-005
tblVehicleEF	SBUS	5.5110e-003	2.3370e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.60	0.74

tblVehicleEF	SBUS	3.2230e-003	1.3880e-003
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.38	0.06
tblVehicleEF	SBUS	0.82	0.11
tblVehicleEF	SBUS	7.3180e-003	6.0540e-003
tblVehicleEF	SBUS	0.05	0.01
tblVehicleEF	SBUS	9.36	4.40
tblVehicleEF	SBUS	0.47	0.58
tblVehicleEF	SBUS	7.09	1.33
tblVehicleEF	SBUS	946.42	344.14
tblVehicleEF	SBUS	1,023.12	967.34
tblVehicleEF	SBUS	64.29	8.15
tblVehicleEF	SBUS	4.02	2.45
tblVehicleEF	SBUS	1.75	2.87
tblVehicleEF	SBUS	2.5840e-003	2.4810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	8.9650e-003	0.02
tblVehicleEF	SBUS	1.2220e-003	1.0900e-004
tblVehicleEF	SBUS	2.4720e-003	2.3740e-003
tblVehicleEF	SBUS	2.6130e-003	2.5550e-003
tblVehicleEF	SBUS	8.5570e-003	0.02
tblVehicleEF	SBUS	1.1230e-003	1.0000e-004
tblVehicleEF	SBUS	3.8270e-003	1.6050e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.10	0.51
tblVehicleEF	SBUS	2.3240e-003	1.0040e-003

tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	0.02	0.11
tblVehicleEF	SBUS	0.39	0.06
tblVehicleEF	SBUS	9.3570e-003	3.3010e-003
tblVehicleEF	SBUS	9.8750e-003	9.3000e-003
tblVehicleEF	SBUS	7.6600e-004	8.1000e-005
tblVehicleEF	SBUS	3.8270e-003	1.6050e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.60	0.74
tblVehicleEF	SBUS	2.3240e-003	1.0040e-003
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.11
tblVehicleEF	SBUS	0.43	0.07
tblVehicleEF	UBUS	1.16	5.27
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	5.70	41.13
tblVehicleEF	UBUS	10.23	1.81
tblVehicleEF	UBUS	1,738.15	2,004.08
tblVehicleEF	UBUS	143.66	19.02
tblVehicleEF	UBUS	1.87	0.46
tblVehicleEF	UBUS	0.50	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.01	3.1570e-003
tblVehicleEF	UBUS	1.4970e-003	2.1400e-004
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.01	3.0040e-003

tblVehicleEF	UBUS	1.3760e-003	1.9600e-004
tblVehicleEF	UBUS	4.8150e-003	9.9100e-004
tblVehicleEF	UBUS	0.07	9.9200e-003
tblVehicleEF	UBUS	3.3270e-003	6.3000e-004
tblVehicleEF	UBUS	0.17	0.08
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.84	0.12
tblVehicleEF	UBUS	8.2780e-003	3.5120e-003
tblVehicleEF	UBUS	1.6220e-003	1.8800e-004
tblVehicleEF	UBUS	4.8150e-003	9.9100e-004
tblVehicleEF	UBUS	0.07	9.9200e-003
tblVehicleEF	UBUS	3.3270e-003	6.3000e-004
tblVehicleEF	UBUS	1.35	5.38
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.92	0.13
tblVehicleEF	UBUS	1.16	5.27
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	5.72	41.13
tblVehicleEF	UBUS	9.07	1.61
tblVehicleEF	UBUS	1,738.15	2,004.09
tblVehicleEF	UBUS	143.66	18.66
tblVehicleEF	UBUS	1.74	0.45
tblVehicleEF	UBUS	0.50	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.01	3.1570e-003
tblVehicleEF	UBUS	1.4970e-003	2.1400e-004
tblVehicleEF	UBUS	0.21	0.03

tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.01	3.0040e-003
tblVehicleEF	UBUS	1.3760e-003	1.9600e-004
tblVehicleEF	UBUS	6.5140e-003	1.3720e-003
tblVehicleEF	UBUS	0.07	0.01
tblVehicleEF	UBUS	4.4550e-003	8.7800e-004
tblVehicleEF	UBUS	0.17	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.78	0.11
tblVehicleEF	UBUS	8.2790e-003	3.5120e-003
tblVehicleEF	UBUS	1.6020e-003	1.8500e-004
tblVehicleEF	UBUS	6.5140e-003	1.3720e-003
tblVehicleEF	UBUS	0.07	0.01
tblVehicleEF	UBUS	4.4550e-003	8.7800e-004
tblVehicleEF	UBUS	1.35	5.38
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.86	0.12
tblVehicleEF	UBUS	1.16	5.27
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	5.69	41.13
tblVehicleEF	UBUS	10.44	1.85
tblVehicleEF	UBUS	1,738.15	2,004.08
tblVehicleEF	UBUS	143.66	19.08
tblVehicleEF	UBUS	1.83	0.46
tblVehicleEF	UBUS	0.50	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.01	3.1570e-003

tblVehicleEF	UBUS	1.4970e-003	2.1400e-004
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.01	3.0040e-003
tblVehicleEF	UBUS	1.3760e-003	1.9600e-004
tblVehicleEF	UBUS	5.0760e-003	1.0140e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	3.3130e-003	6.1600e-004
tblVehicleEF	UBUS	0.17	0.08
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.85	0.12
tblVehicleEF	UBUS	8.2780e-003	3.5120e-003
tblVehicleEF	UBUS	1.6260e-003	1.8900e-004
tblVehicleEF	UBUS	5.0760e-003	1.0140e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	3.3130e-003	6.1600e-004
tblVehicleEF	UBUS	1.35	5.38
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.94	0.13
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	ST_TR	20.87	9.10
tblVehicleTrips	ST_TR	158.37	122.40
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	ST_TR	177.59	177.62
tblVehicleTrips	SU_TR	16.74	5.00
tblVehicleTrips	SU_TR	4.84	6.28

tblVehicleTrips	SU_TR	26.73	13.60
tblVehicleTrips	SU_TR	131.84	142.64
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	SU_TR	166.44	166.47
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	7.32
tblVehicleTrips	WD_TR	32.93	28.82
tblVehicleTrips	WD_TR	127.15	112.18
tblVehicleTrips	WD_TR	9.52	9.44
tblVehicleTrips	WD_TR	102.24	106.78

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
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	tons/yr										MT/yr					
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**

	ROG	NOx	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	5.9319	0.1595	7.0241	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4905
Energy	0.0446	0.3883	0.2155	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	1,008.7631	1,008.7631	0.0532	0.0174	1,015.2659
Mobile	1.7550	4.4641	16.8638	0.0534	6.6140	0.0357	6.6496	1.7693	0.0333	1.8026	0.0000	5,017.5784	5,017.5784	0.3167	0.0000	5,025.4970
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	142.5321	0.0000	142.5321	8.4234	0.0000	353.1173
Water						0.0000	0.0000		0.0000	0.0000	10.3847	197.9309	208.3156	1.0822	0.0284	243.8395
Total	**7.7520**	**5.0692**	**24.1557**	**0.0630**	**6.6140**	**0.4966**	**7.1105**	**1.7693**	**0.4942**	**2.2635**	**197.7413**	**6,327.0404**	**6,524.7817**	**10.0174**	**0.0488**	**6,789.7636**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.5589	0.1288	4.3750	7.3000e-004		0.0305	0.0305		0.0305	0.0305	0.0000	98.3150	98.3150	8.5300e-003	1.6700e-003	99.0264
Energy	0.0446	0.3883	0.2155	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	1,008.7631	1,008.7631	0.0532	0.0174	1,015.2659
Mobile	1.7141	4.2070	15.4083	0.0471	5.8043	0.0317	5.8361	1.5527	0.0296	1.5823	0.0000	4,422.8250	4,422.8250	0.2876	0.0000	4,430.0146
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	142.5321	0.0000	142.5321	8.4234	0.0000	353.1173
Water						0.0000	0.0000		0.0000	0.0000	10.3847	172.5544	182.9392	1.0802	0.0280	218.2896
Total	**6.3381**	**4.7814**	**20.0511**	**0.0503**	**5.8043**	**0.0961**	**5.9004**	**1.5527**	**0.0940**	**1.6467**	**152.9169**	**5,711.9774**	**5,864.8943**	**9.8543**	**0.0470**	**6,125.2671**

	ROG	NOx	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	**18.24**	**5.68**	**16.99**	**20.11**	**12.24**	**80.66**	**17.02**	**12.24**	**80.99**	**27.25**	**22.67**	**9.72**	**10.11**	**1.63**	**3.67**	**9.79**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-1,995.3004
Total	**-1,995.3004**

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	8/3/2020	8/3/2020	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 - 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	tons/yr										MT/yr					
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	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

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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	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 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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Pedestrian Network

Implement NEV Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7141	4.2070	15.4083	0.0471	5.8043	0.0317	5.8361	1.5527	0.0296	1.5823	0.0000	4,422.8250	4,422.8250	0.2876	0.0000	4,430.0146
Unmitigated	1.7550	4.4641	16.8638	0.0534	6.6140	0.0357	6.6496	1.7693	0.0333	1.8026	0.0000	5,017.5784	5,017.5784	0.3167	0.0000	5,025.4970

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	210.50	210.50	210.50	605,722	531,576
Condo/Townhouse	1,061.40	1,180.30	910.60	3,611,393	3,169,322
Health Club	648.45	204.75	306.00	1,146,687	1,006,321
High Turnover (Sit Down Restaurant)	897.44	979.20	1141.12	1,286,419	1,128,948
Single Family Housing	2,614.88	2,642.58	2368.35	8,828,617	7,747,906
Supermarket	1,281.36	2,131.44	1997.64	1,985,970	1,742,867
Total	6,714.03	7,348.77	6,934.21	17,464,807	15,326,940

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777
Condo/Townhouse	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777
Health Club	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777
High Turnover (Sit Down Restaurant)	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777
Single Family Housing	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777
Supermarket	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Rancho La Habra - Project Development (Operations - Mitigated) - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	567.5423	567.5423	0.0448	9.2700e-003	571.4232
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	567.5423	567.5423	0.0448	9.2700e-003	571.4232
NaturalGas Mitigated	0.0446	0.3883	0.2155	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	441.2208	441.2208	8.4600e-003	8.0900e-003	443.8428
NaturalGas Unmitigated	0.0446	0.3883	0.2155	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	441.2208	441.2208	8.4600e-003	8.0900e-003	443.8428

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	1.62645e+006	8.7700e-003	0.0749	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	86.7938	86.7938	1.6600e-003	1.5900e-003	87.3096
Health Club	375525	2.0200e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	20.0394	20.0394	3.8000e-004	3.7000e-004	20.1585
High Turnover (Sit Down Restaurant)	1.886e+006	0.0102	0.0925	0.0777	5.5000e-004		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	100.6441	100.6441	1.9300e-003	1.8500e-003	101.2422
Single Family Housing	4.16935e+006	0.0225	0.1921	0.0818	1.2300e-003		0.0155	0.0155		0.0155	0.0155	0.0000	222.4922	222.4922	4.2600e-003	4.0800e-003	223.8143
Supermarket	210840	1.1400e-003	0.0103	8.6800e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.2512	11.2512	2.2000e-004	2.1000e-004	11.3181
Total		**0.0446**	**0.3883**	**0.2154**	**2.4300e-003**		**0.0308**	**0.0308**		**0.0308**	**0.0308**	**0.0000**	**441.2208**	**441.2208**	**8.4500e-003**	**8.1000e-003**	**443.8428**

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	1.62645e+006	8.7700e-003	0.0749	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	86.7938	86.7938	1.6600e-003	1.5900e-003	87.3096
Health Club	375525	2.0200e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	20.0394	20.0394	3.8000e-004	3.7000e-004	20.1585
High Turnover (Sit Down Restaurant)	1.886e+006	0.0102	0.0925	0.0777	5.5000e-004		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003	0.0000	100.6441	100.6441	1.9300e-003	1.8500e-003	101.2422
Single Family Housing	4.16935e+006	0.0225	0.1921	0.0818	1.2300e-003		0.0155	0.0155		0.0155	0.0155	0.0000	222.4922	222.4922	4.2600e-003	4.0800e-003	223.8143
Supermarket	210840	1.1400e-003	0.0103	8.6800e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	11.2512	11.2512	2.2000e-004	2.1000e-004	11.3181
Total		**0.0446**	**0.3883**	**0.2154**	**2.4300e-003**		**0.0308**	**0.0308**		**0.0308**	**0.0308**	**0.0000**	**441.2208**	**441.2208**	**8.4500e-003**	**8.1000e-003**	**443.8428**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	630251	105.0599	8.2900e-003	1.7200e-003	105.7783
Health Club	158850	26.4795	2.0900e-003	4.3000e-004	26.6606
High Turnover (Sit Down Restaurant)	252560	42.1005	3.3200e-003	6.9000e-004	42.3884
Single Family Housing	1.94769e+006	324.6705	0.0256	5.3000e-003	326.8906
Supermarket	415320	69.2319	5.4600e-003	1.1300e-003	69.7053
Total		**567.5423**	**0.0448**	**9.2700e-003**	**571.4232**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	630251	105.0599	8.2900e-003	1.7200e-003	105.7783
Health Club	158850	26.4795	2.0900e-003	4.3000e-004	26.6606
High Turnover (Sit Down Restaurant)	252560	42.1005	3.3200e-003	6.9000e-004	42.3884
Single Family Housing	1.94769e+006	324.6705	0.0256	5.3000e-003	326.8906
Supermarket	415320	69.2319	5.4600e-003	1.1300e-003	69.7053
Total		**567.5423**	**0.0448**	**9.2700e-003**	**571.4232**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.5589	0.1288	4.3750	7.3000e-004		0.0305	0.0305		0.0305	0.0305	0.0000	98.3150	98.3150	8.5300e-003	1.6700e-003	99.0264
Unmitigated	5.9319	0.1595	7.0241	7.0700e-003		0.4271	0.4271		0.4271	0.4271	44.8245	93.2481	138.0726	0.1405	3.0400e-003	142.4905

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	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.3822	0.1095	2.6826	6.8400e-003		0.4030	0.4030		0.4030	0.4030	44.8245	86.1372	130.9616	0.1337	3.0400e-003	135.2101
Landscaping	0.1299	0.0501	4.3415	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.7800e-003	0.0000	7.2804
Total	**5.9319**	**0.1595**	**7.0241**	**7.0700e-003**		**0.4271**	**0.4271**		**0.4271**	**0.4271**	**44.8245**	**93.2481**	**138.0726**	**0.1405**	**3.0400e-003**	**142.4905**

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	tons/yr										MT/yr					
Architectural Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.2200e-003	0.0788	0.0335	5.0000e-004		6.3700e-003	6.3700e-003		6.3700e-003	6.3700e-003	0.0000	91.2041	91.2041	1.7500e-003	1.6700e-003	91.7461
Landscaping	0.1299	0.0501	4.3415	2.3000e-004		0.0241	0.0241		0.0241	0.0241	0.0000	7.1109	7.1109	6.7800e-003	0.0000	7.2804
Total	**4.5589**	**0.1288**	**4.3750**	**7.3000e-004**		**0.0305**	**0.0305**		**0.0305**	**0.0305**	**0.0000**	**98.3150**	**98.3150**	**8.5300e-003**	**1.6700e-003**	**99.0264**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Rancho La Habra - Project Development (Operations - Mitigated) - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	182.9392	1.0802	0.0280	218.2896
Unmitigated	208.3156	1.0822	0.0284	243.8395

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 50.1614	92.8980	7.3300e-003	1.5200e-003	93.5333
Condo/Townhouse	9.44733 / 5.95593	34.5333	0.3103	7.7800e-003	44.6111
Health Club	1.33072 / 0.815603	4.8210	0.0437	1.1000e-003	6.2403
High Turnover (Sit Down Restaurant)	2.42827 / 0.154996	6.3281	0.0796	1.9600e-003	8.9010
Single Family Housing	18.0477 / 11.3779	65.9705	0.5928	0.0149	85.2225
Supermarket	1.47922 / 0.045749	3.7647	0.0485	1.1900e-003	5.3314
Total		**208.3156**	**1.0822**	**0.0284**	**243.8395**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 40.1291	74.3184	5.8600e-003	1.2100e-003	74.8266
Condo/Townhouse	9.44733 / 4.76474	32.3272	0.3102	7.7500e-003	42.3899
Health Club	1.33072 / 0.652482	4.5189	0.0437	1.0900e-003	5.9361
High Turnover (Sit Down Restaurant)	2.42827 / 0.123997	6.2707	0.0796	1.9600e-003	8.8432
Single Family Housing	18.0477 / 9.1023	61.7562	0.5925	0.0148	80.9794
Supermarket	1.47922 / 0.0365992	3.7478	0.0485	1.1900e-003	5.3144
Total		**182.9392**	**1.0802**	**0.0280**	**218.2896**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	142.5321	8.4234	0.0000	353.1173
Unmitigated	142.5321	8.4234	0.0000	353.1173

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	66.7	13.5395	0.8002	0.0000	33.5435
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
High Turnover (Sit Down Restaurant)	95.2	19.3247	1.1421	0.0000	47.8762
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Supermarket	67.68	13.7384	0.8119	0.0000	34.0364
Total		**142.5321**	**8.4234**	**0.0000**	**353.1173**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	66.7	13.5395	0.8002	0.0000	33.5435
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
High Turnover (Sit Down Restaurant)	95.2	19.3247	1.1421	0.0000	47.8762
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Supermarket	67.68	13.7384	0.8119	0.0000	34.0364
Total		**142.5321**	**8.4234**	**0.0000**	**353.1173**

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
Emergency Generator	1	0	50	500	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Total	**0.0205**	**0.0573**	**0.0523**	**1.0000e-004**		**3.0200e-003**	**3.0200e-003**		**3.0200e-003**	**3.0200e-003**	**0.0000**	**9.5199**	**9.5199**	**1.3300e-003**	**0.0000**	**9.5533**

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-1,995.3004	0.0000	0.0000	-1,995.3004

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	67.79 / 14.25	-230.7574	0.0000	0.0000	-230.7574
Scrub	25.74 / 54.33	408.8370	0.0000	0.0000	408.8370
Trees	44.51 / 24.93	-2,173.3800	0.0000	0.0000	-2,173.3800
Total		**-1,995.3004**	**0.0000**	**0.0000**	**-1,995.3004**

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APPENDIX 3.3:

CALEEMOD RESIDENTIAL OPTION PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS

Rancho La Habra - Residential Option (Operations - Mitigated)

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	42.10	Acre	42.10	1,833,876.00	0
Health Club	22.50	1000sqft	0.52	22,500.00	0
Condo/Townhouse	194.00	Dwelling Unit	9.52	368,600.00	582
Single Family Housing	277.00	Dwelling Unit	97.86	801,638.00	831

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	417.5	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Rancho La Habra - Residential Option (Operations - Mitigated) - Orange County, Annual

Project Characteristics - CO2 intensity factor represents CO2e intensity factor. The projected 2026 RPS target is derived based on a linear trajectory to reach the 50% project RPS consistent with SB 32 and SB 350.

Land Use - Total Project Area = 150 acres; Average Condo Size = 1,900 SF; Average Single Family Home Size = 2,894 SF

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Based on TIA (Linscott Law & Greenspan Engineers) and ITE Trip Generation Manual, 10th Edition

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Land Use Change -

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 53% (residential) and 30% (nonresidential) to reflect 2019 Title 24 requirements.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	200.00	1.00
tblEnergyUse	LightingElect	1,001.10	470.52
tblEnergyUse	LightingElect	2.99	2.09
tblEnergyUse	LightingElect	1,608.84	756.15
tblEnergyUse	T24E	172.41	81.03
tblEnergyUse	T24E	1.63	1.14
tblEnergyUse	T24E	253.73	119.25
tblEnergyUse	T24NG	12,129.63	5,700.93

Rancho La Habra - Residential Option (Operations - Mitigated) - Orange County, Annual

tblEnergyUse	T24NG	14.04	9.83
tblEnergyUse	T24NG	20,288.91	7,535.79
tblLandUse	LandUseSquareFeet	194,000.00	368,600.00
tblLandUse	LandUseSquareFeet	498,600.00	801,638.00
tblLandUse	LotAcreage	12.13	9.52
tblLandUse	LotAcreage	89.94	97.86
tblLandUse	Population	555.00	582.00
tblLandUse	Population	792.00	831.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	417.5
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleEF	HHD	0.39	0.03
tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.40	6.05
tblVehicleEF	HHD	1.30	0.68
tblVehicleEF	HHD	4.46	9.9760e-003
tblVehicleEF	HHD	3,712.33	976.34
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.24	5.17
tblVehicleEF	HHD	1.64	2.36
tblVehicleEF	HHD	8.2750e-003	2.6960e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	1.0000e-006
tblVehicleEF	HHD	7.9170e-003	2.5790e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7590e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0000e-006
tblVehicleEF	HHD	1.1800e-004	3.0000e-006
tblVehicleEF	HHD	4.7610e-003	1.0900e-004
tblVehicleEF	HHD	0.33	0.40
tblVehicleEF	HHD	9.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.4000e-004	4.8300e-004
tblVehicleEF	HHD	0.08	4.0000e-006
tblVehicleEF	HHD	0.03	8.8970e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1700e-004	1.0000e-006
tblVehicleEF	HHD	1.1800e-004	3.0000e-006
tblVehicleEF	HHD	4.7610e-003	1.0900e-004
tblVehicleEF	HHD	0.41	0.47
tblVehicleEF	HHD	9.2000e-005	2.0000e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.4000e-004	4.8300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.37	0.03

tblVehicleEF	HHD	0.17	0.15
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.02	5.97
tblVehicleEF	HHD	1.31	0.68
tblVehicleEF	HHD	4.25	9.5080e-003
tblVehicleEF	HHD	3,932.88	965.32
tblVehicleEF	HHD	1,567.60	1,325.78
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	12.63	4.94
tblVehicleEF	HHD	1.55	2.24
tblVehicleEF	HHD	6.9760e-003	2.3520e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	1.0000e-006
tblVehicleEF	HHD	6.6740e-003	2.2500e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6670e-003	8.7590e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	4.0000e-006
tblVehicleEF	HHD	4.8570e-003	1.1100e-004
tblVehicleEF	HHD	0.32	0.42
tblVehicleEF	HHD	1.2600e-004	3.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.2300e-004	4.7100e-004
tblVehicleEF	HHD	0.08	4.0000e-006

tblVehicleEF	HHD	0.03	8.7940e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1400e-004	1.0000e-006
tblVehicleEF	HHD	1.6800e-004	4.0000e-006
tblVehicleEF	HHD	4.8570e-003	1.1100e-004
tblVehicleEF	HHD	0.39	0.49
tblVehicleEF	HHD	1.2600e-004	3.0000e-006
tblVehicleEF	HHD	0.26	0.18
tblVehicleEF	HHD	4.2300e-004	4.7100e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.42	0.02
tblVehicleEF	HHD	0.17	8.7800e-004
tblVehicleEF	HHD	0.06	1.0000e-006
tblVehicleEF	HHD	1.93	5.97
tblVehicleEF	HHD	1.30	0.21
tblVehicleEF	HHD	4.50	0.01
tblVehicleEF	HHD	3,407.76	956.71
tblVehicleEF	HHD	1,567.60	1,219.26
tblVehicleEF	HHD	14.46	0.08
tblVehicleEF	HHD	11.69	5.28
tblVehicleEF	HHD	1.61	2.27
tblVehicleEF	HHD	0.01	2.8860e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	5.8520e-003	0.02
tblVehicleEF	HHD	1.4400e-004	1.0000e-006
tblVehicleEF	HHD	9.6330e-003	2.7610e-003

tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6670e-003	8.4570e-003
tblVehicleEF	HHD	5.5990e-003	0.02
tblVehicleEF	HHD	1.3200e-004	1.0000e-006
tblVehicleEF	HHD	1.1400e-004	3.0000e-006
tblVehicleEF	HHD	5.0300e-003	1.1900e-004
tblVehicleEF	HHD	0.36	0.37
tblVehicleEF	HHD	9.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.8300e-004	5.2100e-004
tblVehicleEF	HHD	0.08	4.0000e-006
tblVehicleEF	HHD	0.03	9.0380e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.1800e-004	1.0000e-006
tblVehicleEF	HHD	1.1400e-004	3.0000e-006
tblVehicleEF	HHD	5.0300e-003	1.1900e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	9.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.26	0.02
tblVehicleEF	HHD	4.8300e-004	5.2100e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	LDA	2.7580e-003	1.4540e-003
tblVehicleEF	LDA	2.8090e-003	0.03
tblVehicleEF	LDA	0.43	0.49
tblVehicleEF	LDA	0.72	1.76
tblVehicleEF	LDA	212.92	225.86
tblVehicleEF	LDA	47.75	46.23

tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5540e-003
tblVehicleEF	LDA	1.5740e-003	1.1940e-003
tblVehicleEF	LDA	2.0130e-003	1.4290e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.9380e-003	5.0900e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.1310e-003	2.2340e-003
tblVehicleEF	LDA	4.8900e-004	4.5800e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.01	7.3930e-003
tblVehicleEF	LDA	0.03	0.17
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDA	2.9150e-003	1.5500e-003
tblVehicleEF	LDA	2.5300e-003	0.03
tblVehicleEF	LDA	0.46	0.54
tblVehicleEF	LDA	0.63	1.52
tblVehicleEF	LDA	221.83	235.06
tblVehicleEF	LDA	47.75	45.81
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	1.7100e-003	1.2970e-003

tblVehicleEF	LDA	2.1900e-003	1.5540e-003
tblVehicleEF	LDA	1.5740e-003	1.1940e-003
tblVehicleEF	LDA	2.0130e-003	1.4290e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	7.3280e-003	5.3750e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.03	0.13
tblVehicleEF	LDA	2.2210e-003	2.3250e-003
tblVehicleEF	LDA	4.8800e-004	4.5300e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	7.8080e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.04	0.14
tblVehicleEF	LDA	2.7050e-003	1.4240e-003
tblVehicleEF	LDA	2.8660e-003	0.04
tblVehicleEF	LDA	0.41	0.47
tblVehicleEF	LDA	0.74	1.81
tblVehicleEF	LDA	209.63	222.46
tblVehicleEF	LDA	47.75	46.33
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	1.7100e-003	1.2970e-003
tblVehicleEF	LDA	2.1900e-003	1.5540e-003
tblVehicleEF	LDA	1.5740e-003	1.1940e-003

tblVehicleEF	LDA	2.0130e-003	1.4290e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	6.8070e-003	4.9940e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.0980e-003	2.2010e-003
tblVehicleEF	LDA	4.9000e-004	4.5800e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	9.8910e-003	7.2530e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.04	0.16
tblVehicleEF	LDT1	5.9740e-003	3.2240e-003
tblVehicleEF	LDT1	7.9960e-003	0.05
tblVehicleEF	LDT1	0.78	0.78
tblVehicleEF	LDT1	1.69	1.92
tblVehicleEF	LDT1	272.89	271.82
tblVehicleEF	LDT1	61.96	56.50
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	2.1560e-003	1.6200e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	1.9830e-003	1.4900e-003
tblVehicleEF	LDT1	2.5640e-003	1.7820e-003
tblVehicleEF	LDT1	0.09	0.08

tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	2.7370e-003	2.6900e-003
tblVehicleEF	LDT1	6.4900e-004	5.5900e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.48
tblVehicleEF	LDT1	0.12	0.24
tblVehicleEF	LDT1	6.2860e-003	3.4160e-003
tblVehicleEF	LDT1	7.1800e-003	0.04
tblVehicleEF	LDT1	0.85	0.85
tblVehicleEF	LDT1	1.46	1.66
tblVehicleEF	LDT1	283.94	281.33
tblVehicleEF	LDT1	61.96	56.01
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	2.1560e-003	1.6200e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	1.9830e-003	1.4900e-003
tblVehicleEF	LDT1	2.5640e-003	1.7820e-003
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10

tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.10	0.20
tblVehicleEF	LDT1	2.8480e-003	2.7840e-003
tblVehicleEF	LDT1	6.4500e-004	5.5400e-004
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.14
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.12	0.45
tblVehicleEF	LDT1	0.11	0.22
tblVehicleEF	LDT1	5.8680e-003	3.1640e-003
tblVehicleEF	LDT1	8.1630e-003	0.05
tblVehicleEF	LDT1	0.76	0.76
tblVehicleEF	LDT1	1.74	1.98
tblVehicleEF	LDT1	268.81	268.31
tblVehicleEF	LDT1	61.96	56.61
tblVehicleEF	LDT1	0.07	0.05
tblVehicleEF	LDT1	2.1560e-003	1.6200e-003
tblVehicleEF	LDT1	2.7890e-003	1.9380e-003
tblVehicleEF	LDT1	1.9830e-003	1.4900e-003
tblVehicleEF	LDT1	2.5640e-003	1.7820e-003
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.15	0.57

tblVehicleEF	LDT1	0.11	0.23
tblVehicleEF	LDT1	2.6960e-003	2.6550e-003
tblVehicleEF	LDT1	6.4900e-004	5.6000e-004
tblVehicleEF	LDT1	0.09	0.08
tblVehicleEF	LDT1	0.21	0.15
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.57
tblVehicleEF	LDT1	0.12	0.25
tblVehicleEF	LDT2	3.9670e-003	2.4810e-003
tblVehicleEF	LDT2	3.9510e-003	0.05
tblVehicleEF	LDT2	0.58	0.66
tblVehicleEF	LDT2	0.97	2.27
tblVehicleEF	LDT2	305.47	284.99
tblVehicleEF	LDT2	68.50	59.63
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	1.8320e-003	1.3690e-003
tblVehicleEF	LDT2	2.3500e-003	1.5750e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4480e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.8490e-003	9.4620e-003
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0580e-003	2.8190e-003

tblVehicleEF	LDT2	7.0100e-004	5.9000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.35
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	4.1900e-003	2.6380e-003
tblVehicleEF	LDT2	3.5660e-003	0.04
tblVehicleEF	LDT2	0.63	0.72
tblVehicleEF	LDT2	0.84	1.96
tblVehicleEF	LDT2	317.98	294.00
tblVehicleEF	LDT2	68.50	59.06
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.8320e-003	1.3690e-003
tblVehicleEF	LDT2	2.3500e-003	1.5750e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4480e-003
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.01	9.9750e-003
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.19
tblVehicleEF	LDT2	3.1840e-003	2.9080e-003
tblVehicleEF	LDT2	6.9900e-004	5.8400e-004
tblVehicleEF	LDT2	0.05	0.09

tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.05	0.33
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	3.8920e-003	2.4320e-003
tblVehicleEF	LDT2	4.0310e-003	0.05
tblVehicleEF	LDT2	0.56	0.64
tblVehicleEF	LDT2	0.99	2.34
tblVehicleEF	LDT2	300.86	281.66
tblVehicleEF	LDT2	68.50	59.75
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.8320e-003	1.3690e-003
tblVehicleEF	LDT2	2.3500e-003	1.5750e-003
tblVehicleEF	LDT2	1.6850e-003	1.2600e-003
tblVehicleEF	LDT2	2.1610e-003	1.4480e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	9.6640e-003	9.2900e-003
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.05	0.22
tblVehicleEF	LDT2	3.0120e-003	2.7860e-003
tblVehicleEF	LDT2	7.0100e-004	5.9100e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.04	0.07

tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LHD1	4.4070e-003	4.8060e-003
tblVehicleEF	LHD1	5.8690e-003	3.0280e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34
tblVehicleEF	LHD1	1.81	0.90
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.77
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.79	0.46
tblVehicleEF	LHD1	8.7400e-004	8.8600e-004
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8760e-003
tblVehicleEF	LHD1	6.9400e-004	2.0700e-004
tblVehicleEF	LHD1	8.3600e-004	8.4800e-004
tblVehicleEF	LHD1	2.5920e-003	2.4700e-003
tblVehicleEF	LHD1	8.3350e-003	5.5990e-003
tblVehicleEF	LHD1	6.3800e-004	1.9100e-004
tblVehicleEF	LHD1	2.2360e-003	1.6920e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4970e-003	1.1450e-003
tblVehicleEF	LHD1	0.05	0.03

tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4000e-005
tblVehicleEF	LHD1	5.5660e-003	5.9310e-003
tblVehicleEF	LHD1	3.1600e-004	1.0700e-004
tblVehicleEF	LHD1	2.2360e-003	1.6920e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4970e-003	1.1450e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.25	0.37
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.4070e-003	4.8150e-003
tblVehicleEF	LHD1	5.9560e-003	3.0670e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.49	0.35
tblVehicleEF	LHD1	1.73	0.86
tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.55
tblVehicleEF	LHD1	28.18	10.71
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.75	0.43
tblVehicleEF	LHD1	8.7400e-004	8.8600e-004
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8760e-003
tblVehicleEF	LHD1	6.9400e-004	2.0700e-004

tblVehicleEF	LHD1	8.3600e-004	8.4800e-004
tblVehicleEF	LHD1	2.5920e-003	2.4700e-003
tblVehicleEF	LHD1	8.3350e-003	5.5990e-003
tblVehicleEF	LHD1	6.3800e-004	1.9100e-004
tblVehicleEF	LHD1	3.1160e-003	2.3670e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0060e-003	1.5420e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.24	0.35
tblVehicleEF	LHD1	0.17	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4000e-005
tblVehicleEF	LHD1	5.5660e-003	5.9310e-003
tblVehicleEF	LHD1	3.1400e-004	1.0600e-004
tblVehicleEF	LHD1	3.1160e-003	2.3670e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0060e-003	1.5420e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.24	0.35
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD1	4.4070e-003	4.8040e-003
tblVehicleEF	LHD1	5.8460e-003	3.0170e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.48	0.34
tblVehicleEF	LHD1	1.82	0.90

tblVehicleEF	LHD1	9.05	8.70
tblVehicleEF	LHD1	569.17	608.54
tblVehicleEF	LHD1	28.18	10.78
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.78	0.45
tblVehicleEF	LHD1	8.7400e-004	8.8600e-004
tblVehicleEF	LHD1	0.01	9.8780e-003
tblVehicleEF	LHD1	8.7310e-003	5.8760e-003
tblVehicleEF	LHD1	6.9400e-004	2.0700e-004
tblVehicleEF	LHD1	8.3600e-004	8.4800e-004
tblVehicleEF	LHD1	2.5920e-003	2.4700e-003
tblVehicleEF	LHD1	8.3350e-003	5.5990e-003
tblVehicleEF	LHD1	6.3800e-004	1.9100e-004
tblVehicleEF	LHD1	2.2730e-003	1.7160e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.4980e-003	1.1480e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.18	0.05
tblVehicleEF	LHD1	9.0000e-005	8.4000e-005
tblVehicleEF	LHD1	5.5660e-003	5.9310e-003
tblVehicleEF	LHD1	3.1600e-004	1.0700e-004
tblVehicleEF	LHD1	2.2730e-003	1.7160e-003
tblVehicleEF	LHD1	0.09	0.06
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.4980e-003	1.1480e-003

tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	0.19	0.06
tblVehicleEF	LHD2	3.1600e-003	3.4120e-003
tblVehicleEF	LHD2	2.5500e-003	2.5030e-003
tblVehicleEF	LHD2	5.1240e-003	7.7080e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.00	0.59
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.32
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.39	0.52
tblVehicleEF	LHD2	1.1000e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4580e-003
tblVehicleEF	LHD2	3.7900e-004	1.1900e-004
tblVehicleEF	LHD2	1.0520e-003	1.2720e-003
tblVehicleEF	LHD2	2.6850e-003	2.6630e-003
tblVehicleEF	LHD2	7.2730e-003	9.0360e-003
tblVehicleEF	LHD2	3.4900e-004	1.1000e-004
tblVehicleEF	LHD2	7.8600e-004	1.0730e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5900e-004
tblVehicleEF	LHD2	0.04	0.04

tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2700e-004
tblVehicleEF	LHD2	5.7380e-003	5.9620e-003
tblVehicleEF	LHD2	2.6400e-004	8.2000e-005
tblVehicleEF	LHD2	7.8600e-004	1.0730e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.7600e-004	7.5900e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4190e-003
tblVehicleEF	LHD2	2.5710e-003	2.5210e-003
tblVehicleEF	LHD2	4.9820e-003	7.4670e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	0.96	0.57
tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.28
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.36	0.49
tblVehicleEF	LHD2	1.1000e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4580e-003
tblVehicleEF	LHD2	3.7900e-004	1.1900e-004

tblVehicleEF	LHD2	1.0520e-003	1.2720e-003
tblVehicleEF	LHD2	2.6850e-003	2.6630e-003
tblVehicleEF	LHD2	7.2730e-003	9.0360e-003
tblVehicleEF	LHD2	3.4900e-004	1.1000e-004
tblVehicleEF	LHD2	1.1030e-003	1.5040e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0230e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2700e-004
tblVehicleEF	LHD2	5.7380e-003	5.9620e-003
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tblVehicleEF	LHD2	1.1030e-003	1.5040e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7500e-004	1.0230e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.20
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	3.1600e-003	3.4100e-003
tblVehicleEF	LHD2	2.5450e-003	2.4980e-003
tblVehicleEF	LHD2	5.1530e-003	7.7580e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.23	0.27
tblVehicleEF	LHD2	1.01	0.60

tblVehicleEF	LHD2	13.62	13.27
tblVehicleEF	LHD2	589.83	616.89
tblVehicleEF	LHD2	24.66	8.33
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.38	0.51
tblVehicleEF	LHD2	1.1000e-003	1.3290e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.6140e-003	9.4580e-003
tblVehicleEF	LHD2	3.7900e-004	1.1900e-004
tblVehicleEF	LHD2	1.0520e-003	1.2720e-003
tblVehicleEF	LHD2	2.6850e-003	2.6630e-003
tblVehicleEF	LHD2	7.2730e-003	9.0360e-003
tblVehicleEF	LHD2	3.4900e-004	1.1000e-004
tblVehicleEF	LHD2	7.7000e-004	1.0620e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4800e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3300e-004	1.2700e-004
tblVehicleEF	LHD2	5.7380e-003	5.9620e-003
tblVehicleEF	LHD2	2.6400e-004	8.2000e-005
tblVehicleEF	LHD2	7.7000e-004	1.0620e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	7.4800e-004

tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.23
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.64	17.81
tblVehicleEF	MCY	9.65	8.54
tblVehicleEF	MCY	179.17	214.60
tblVehicleEF	MCY	43.54	58.63
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	2.3120e-003	2.2960e-003
tblVehicleEF	MCY	3.4500e-003	2.9780e-003
tblVehicleEF	MCY	2.1580e-003	2.1430e-003
tblVehicleEF	MCY	3.2350e-003	2.7920e-003
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.32	2.33
tblVehicleEF	MCY	0.57	1.70
tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.1500e-003	2.1240e-003
tblVehicleEF	MCY	6.5200e-004	5.8000e-004
tblVehicleEF	MCY	1.12	1.14
tblVehicleEF	MCY	0.64	0.66
tblVehicleEF	MCY	0.68	0.70
tblVehicleEF	MCY	2.90	2.91
tblVehicleEF	MCY	0.57	1.70

tblVehicleEF	MCY	2.18	1.93
tblVehicleEF	MCY	0.48	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	17.03	17.19
tblVehicleEF	MCY	8.86	7.81
tblVehicleEF	MCY	179.17	213.43
tblVehicleEF	MCY	43.54	56.86
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	2.3120e-003	2.2960e-003
tblVehicleEF	MCY	3.4500e-003	2.9780e-003
tblVehicleEF	MCY	2.1580e-003	2.1430e-003
tblVehicleEF	MCY	3.2350e-003	2.7920e-003
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.27	2.28
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.81	1.59
tblVehicleEF	MCY	2.1390e-003	2.1120e-003
tblVehicleEF	MCY	6.3300e-004	5.6300e-004
tblVehicleEF	MCY	1.68	1.72
tblVehicleEF	MCY	0.68	0.71
tblVehicleEF	MCY	1.07	1.09
tblVehicleEF	MCY	2.84	2.85
tblVehicleEF	MCY	0.53	1.59
tblVehicleEF	MCY	1.97	1.73
tblVehicleEF	MCY	0.50	0.35

tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	17.73	17.90
tblVehicleEF	MCY	9.78	8.67
tblVehicleEF	MCY	179.17	214.78
tblVehicleEF	MCY	43.54	58.95
tblVehicleEF	MCY	1.09	1.09
tblVehicleEF	MCY	2.3120e-003	2.2960e-003
tblVehicleEF	MCY	3.4500e-003	2.9780e-003
tblVehicleEF	MCY	2.1580e-003	2.1430e-003
tblVehicleEF	MCY	3.2350e-003	2.7920e-003
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.33	2.34
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.04	1.81
tblVehicleEF	MCY	2.1520e-003	2.1250e-003
tblVehicleEF	MCY	6.5500e-004	5.8300e-004
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.81	0.84
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.91	2.92
tblVehicleEF	MCY	0.66	1.98
tblVehicleEF	MCY	2.22	1.97
tblVehicleEF	MDV	6.8660e-003	2.9640e-003
tblVehicleEF	MDV	8.3060e-003	0.06
tblVehicleEF	MDV	0.83	0.71

tblVehicleEF	MDV	1.63	2.44
tblVehicleEF	MDV	419.30	353.65
tblVehicleEF	MDV	92.03	72.42
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	1.8480e-003	1.4200e-003
tblVehicleEF	MDV	2.2760e-003	1.5900e-003
tblVehicleEF	MDV	1.7020e-003	1.3090e-003
tblVehicleEF	MDV	2.0930e-003	1.4620e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.09	0.37
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	4.1950e-003	3.4950e-003
tblVehicleEF	MDV	9.4800e-004	7.1700e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.37
tblVehicleEF	MDV	0.12	0.28
tblVehicleEF	MDV	7.2430e-003	3.1500e-003
tblVehicleEF	MDV	7.4810e-003	0.05
tblVehicleEF	MDV	0.90	0.78
tblVehicleEF	MDV	1.42	2.11
tblVehicleEF	MDV	435.95	362.92

tblVehicleEF	MDV	92.03	71.80
tblVehicleEF	MDV	0.07	0.05
tblVehicleEF	MDV	1.8480e-003	1.4200e-003
tblVehicleEF	MDV	2.2760e-003	1.5900e-003
tblVehicleEF	MDV	1.7020e-003	1.3090e-003
tblVehicleEF	MDV	2.0930e-003	1.4620e-003
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.10	0.23
tblVehicleEF	MDV	4.3620e-003	3.5870e-003
tblVehicleEF	MDV	9.4400e-004	7.1000e-004
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.08	0.35
tblVehicleEF	MDV	0.11	0.25
tblVehicleEF	MDV	6.7380e-003	2.9050e-003
tblVehicleEF	MDV	8.4750e-003	0.06
tblVehicleEF	MDV	0.80	0.69
tblVehicleEF	MDV	1.68	2.52
tblVehicleEF	MDV	413.15	350.23
tblVehicleEF	MDV	92.03	72.55
tblVehicleEF	MDV	0.08	0.05

tblVehicleEF	MDV	1.8480e-003	1.4200e-003
tblVehicleEF	MDV	2.2760e-003	1.5900e-003
tblVehicleEF	MDV	1.7020e-003	1.3090e-003
tblVehicleEF	MDV	2.0930e-003	1.4620e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.10	0.43
tblVehicleEF	MDV	0.11	0.26
tblVehicleEF	MDV	4.1330e-003	3.4620e-003
tblVehicleEF	MDV	9.4900e-004	7.1800e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.12
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.43
tblVehicleEF	MDV	0.13	0.29
tblVehicleEF	MH	0.01	3.0180e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.98	0.26
tblVehicleEF	MH	4.09	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	1.02	3.30
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08

tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.24	0.00
tblVehicleEF	MH	0.01	8.7570e-003
tblVehicleEF	MH	6.3500e-004	0.00
tblVehicleEF	MH	0.66	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.26	0.00
tblVehicleEF	MH	0.01	3.0180e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.01	0.26
tblVehicleEF	MH	3.88	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	0.95	3.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08

tblVehicleEF	MH	8.7000e-004	0.00
tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.23	0.00
tblVehicleEF	MH	0.01	8.7570e-003
tblVehicleEF	MH	6.3100e-004	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.05	0.00
tblVehicleEF	MH	0.41	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.01	3.0180e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.98	0.26
tblVehicleEF	MH	4.12	0.00
tblVehicleEF	MH	1,088.87	926.29
tblVehicleEF	MH	56.38	0.00
tblVehicleEF	MH	1.00	3.24
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.08

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tblVehicleEF	MH	3.2370e-003	4.0000e-003
tblVehicleEF	MH	0.02	0.07
tblVehicleEF	MH	8.0000e-004	0.00
tblVehicleEF	MH	0.70	0.00
tblVehicleEF	MH	0.06	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.24	0.00
tblVehicleEF	MH	0.01	8.7570e-003
tblVehicleEF	MH	6.3500e-004	0.00
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tblVehicleEF	MH	0.06	0.00
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tblVehicleEF	MH	0.06	0.07
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tblVehicleEF	MHD	1,116.08	952.09
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tblVehicleEF	MHD	0.01	9.0980e-003
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tblVehicleEF	MHD	6.0600e-004	3.3900e-004
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tblVehicleEF	MHD	0.01	0.10
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tblVehicleEF	MHD	8.2200e-004	4.5700e-004
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tblVehicleEF	MHD	0.04	0.02

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tblVehicleEF	MHD	8.2200e-004	4.5700e-004
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tblVehicleEF	MHD	0.03	0.03
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tblVehicleEF	OBUS	0.03	0.02
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tblVehicleEF	OBUS	0.04	0.07
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tblVehicleEF	OBUS	1,197.99	1,276.23

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tblVehicleEF	OBUS	2.5110e-003	6.5800e-003
tblVehicleEF	OBUS	9.3700e-004	2.0300e-004
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tblVehicleEF	OBUS	0.04	0.07
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tblVehicleEF	UBUS	1.2390e-003	1.8600e-004
tblVehicleEF	UBUS	6.8520e-003	1.0870e-003
tblVehicleEF	UBUS	0.08	7.5210e-003
tblVehicleEF	UBUS	4.4540e-003	6.7200e-004
tblVehicleEF	UBUS	0.27	0.08

tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.82	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6410e-003
tblVehicleEF	UBUS	1.5790e-003	1.9000e-004
tblVehicleEF	UBUS	6.8520e-003	1.0870e-003
tblVehicleEF	UBUS	0.08	7.5210e-003
tblVehicleEF	UBUS	4.4540e-003	6.7200e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.02	0.04
tblVehicleEF	UBUS	0.90	0.11
tblVehicleEF	UBUS	1.41	5.27
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	6.67	41.12
tblVehicleEF	UBUS	11.17	1.85
tblVehicleEF	UBUS	1,771.11	2,017.13
tblVehicleEF	UBUS	140.16	19.62
tblVehicleEF	UBUS	2.81	0.44
tblVehicleEF	UBUS	0.51	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.02	3.1350e-003
tblVehicleEF	UBUS	1.3470e-003	2.0300e-004
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.02	2.9840e-003
tblVehicleEF	UBUS	1.2390e-003	1.8600e-004
tblVehicleEF	UBUS	5.4900e-003	8.2500e-004
tblVehicleEF	UBUS	0.09	8.0660e-003

tblVehicleEF	UBUS	3.3790e-003	4.6800e-004
tblVehicleEF	UBUS	0.27	0.08
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.90	0.10
tblVehicleEF	UBUS	8.4160e-003	3.6410e-003
tblVehicleEF	UBUS	1.6040e-003	1.9400e-004
tblVehicleEF	UBUS	5.4900e-003	8.2500e-004
tblVehicleEF	UBUS	0.09	8.0660e-003
tblVehicleEF	UBUS	3.3790e-003	4.6800e-004
tblVehicleEF	UBUS	1.71	5.38
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	0.98	0.11
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	ST_TR	20.87	9.10
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	16.74	5.00
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	SU_TR	26.73	13.60
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	7.32
tblVehicleTrips	WD_TR	32.93	28.82
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
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	tons/yr										MT/yr					
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**

	ROG	NOx	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**

Rancho La Habra - Residential Option (Operations - Mitigated) - Orange County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	6.3923	0.1781	7.8476	7.8900e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0358
Energy	0.0333	0.2853	0.1290	1.8100e-003		0.0230	0.0230		0.0230	0.0230	0.0000	887.7048	887.7048	0.0451	0.0141	893.0228
Mobile	1.5194	3.6719	15.7564	0.0516	5.8358	0.0366	5.8723	1.5610	0.0341	1.5951	0.0000	4,836.0622	4,836.0622	0.2874	0.0000	4,843.2464
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	114.0444	0.0000	114.0444	6.7398	0.0000	282.5401
Water						0.0000	0.0000		0.0000	0.0000	10.1579	226.9096	237.0675	1.0591	0.0279	271.8574
Total	**7.9654**	**4.1926**	**23.7853**	**0.0614**	**5.8358**	**0.5392**	**6.3750**	**1.5610**	**0.5368**	**2.0978**	**174.2315**	**6,064.2713**	**6,238.5027**	**8.2895**	**0.0454**	**6,459.2558**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.8598	0.1438	4.8909	8.2000e-004		0.0340	0.0340		0.0340	0.0340	0.0000	109.7300	109.7300	9.5500e-003	1.8700e-003	110.5250
Energy	0.0333	0.2853	0.1290	1.8100e-003		0.0230	0.0230		0.0230	0.0230	0.0000	887.7048	887.7048	0.0451	0.0141	893.0228
Mobile	1.4780	3.4205	14.3020	0.0454	5.1214	0.0325	5.1539	1.3699	0.0303	1.4002	0.0000	4,258.7717	4,258.7717	0.2607	0.0000	4,265.2897
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	114.0444	0.0000	114.0444	6.7398	0.0000	282.5401
Water						0.0000	0.0000		0.0000	0.0000	10.1579	197.3181	207.4760	1.0570	0.0275	242.0878
Total	**6.3916**	**3.9069**	**19.3743**	**0.0482**	**5.1214**	**0.0925**	**5.2139**	**1.3699**	**0.0903**	**1.4602**	**124.2023**	**5,463.0445**	**5,587.2468**	**8.1136**	**0.0434**	**5,803.0187**

	ROG	NOx	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	**19.76**	**6.81**	**18.55**	**21.55**	**12.24**	**82.85**	**18.21**	**12.24**	**83.18**	**30.39**	**28.71**	**9.91**	**10.44**	**2.12**	**4.32**	**10.16**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-1,995.3004
Total	**-1,995.3004**

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	8/3/2020	8/3/2020	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 - 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	tons/yr										MT/yr					
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	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

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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	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 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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Pedestrian Network

Implement NEV Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4780	3.4205	14.3020	0.0454	5.1214	0.0325	5.1539	1.3699	0.0303	1.4002	0.0000	4,258.7717	4,258.7717	0.2607	0.0000	4,265.2897
Unmitigated	1.5194	3.6719	15.7564	0.0516	5.8358	0.0366	5.8723	1.5610	0.0341	1.5951	0.0000	4,836.0622	4,836.0622	0.2874	0.0000	4,843.2464

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	210.50	210.50	210.50	605,722	531,576
Condo/Townhouse	1,420.08	1,579.16	1218.32	4,831,794	4,240,334
Health Club	648.45	204.75	306.00	1,146,687	1,006,321
Single Family Housing	2,614.88	2,642.58	2368.35	8,828,617	7,747,906
Total	4,893.91	4,636.99	4,103.17	15,412,820	13,526,137

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Condo/Townhouse	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Health Club	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836
Single Family Housing	0.567806	0.042648	0.209377	0.105989	0.013805	0.005766	0.026460	0.018426	0.001825	0.001473	0.004977	0.000611	0.000836

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	558.6126	558.6126	0.0388	8.0300e-003	561.9749
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	558.6126	558.6126	0.0388	8.0300e-003	561.9749
NaturalGas Mitigated	0.0333	0.2853	0.1290	1.8100e-003		0.0230	0.0230		0.0230	0.0230	0.0000	329.0922	329.0922	6.3100e-003	6.0300e-003	331.0479
NaturalGas Unmitigated	0.0333	0.2853	0.1290	1.8100e-003		0.0230	0.0230		0.0230	0.0230	0.0000	329.0922	329.0922	6.3100e-003	6.0300e-003	331.0479

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	2.17608e+006	0.0117	0.1003	0.0427	6.4000e-004		8.1100e-003	8.1100e-003		8.1100e-003	8.1100e-003	0.0000	116.1242	116.1242	2.2300e-003	2.1300e-003	116.8142
Health Club	375525	2.0200e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	20.0394	20.0394	3.8000e-004	3.7000e-004	20.1585
Single Family Housing	3.61535e+006	0.0195	0.1666	0.0709	1.0600e-003		0.0135	0.0135		0.0135	0.0135	0.0000	192.9286	192.9286	3.7000e-003	3.5400e-003	194.0751
Total		**0.0332**	**0.2853**	**0.1290**	**1.8100e-003**		**0.0230**	**0.0230**		**0.0230**	**0.0230**	**0.0000**	**329.0922**	**329.0922**	**6.3100e-003**	**6.0400e-003**	**331.0479**

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	2.17608e+006	0.0117	0.1003	0.0427	6.4000e-004		8.1100e-003	8.1100e-003		8.1100e-003	8.1100e-003	0.0000	116.1242	116.1242	2.2300e-003	2.1300e-003	116.8142
Health Club	375525	2.0200e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	20.0394	20.0394	3.8000e-004	3.7000e-004	20.1585
Single Family Housing	3.61535e+006	0.0195	0.1666	0.0709	1.0600e-003		0.0135	0.0135		0.0135	0.0135	0.0000	192.9286	192.9286	3.7000e-003	3.5400e-003	194.0751
Total		**0.0332**	**0.2853**	**0.1290**	**1.8100e-003**		**0.0230**	**0.0230**		**0.0230**	**0.0230**	**0.0000**	**329.0922**	**329.0922**	**6.3100e-003**	**6.0400e-003**	**331.0479**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	843233	159.6870	0.0111	2.2900e-003	160.6482
Health Club	158850	30.0822	2.0900e-003	4.3000e-004	30.2633
Single Family Housing	1.94769e+006	368.8433	0.0256	5.3000e-003	371.0635
Total		**558.6126**	**0.0388**	**8.0200e-003**	**561.9749**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	843233	159.6870	0.0111	2.2900e-003	160.6482
Health Club	158850	30.0822	2.0900e-003	4.3000e-004	30.2633
Single Family Housing	1.94769e+006	368.8433	0.0256	5.3000e-003	371.0635
Total		**558.6126**	**0.0388**	**8.0200e-003**	**561.9749**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.8598	0.1438	4.8909	8.2000e-004		0.0340	0.0340		0.0340	0.0340	0.0000	109.7300	109.7300	9.5500e-003	1.8700e-003	110.5250
Unmitigated	6.3923	0.1781	7.8476	7.8900e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0358

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	tons/yr										MT/yr					
Architectural Coating	0.3766					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5427	0.1222	2.9941	7.6400e-003		0.4497	0.4497		0.4497	0.4497	50.0292	96.1389	146.1681	0.1492	3.4000e-003	150.9099
Landscaping	0.1458	0.0559	4.8535	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9359	7.9359	7.6000e-003	0.0000	8.1259
Total	**6.3923**	**0.1781**	**7.8476**	**7.9000e-003**		**0.4767**	**0.4767**		**0.4767**	**0.4767**	**50.0292**	**104.0748**	**154.1039**	**0.1568**	**3.4000e-003**	**159.0358**

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	tons/yr										MT/yr					
Architectural Coating	0.3766					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0103	0.0879	0.0374	5.6000e-004		7.1100e-003	7.1100e-003		7.1100e-003	7.1100e-003	0.0000	101.7941	101.7941	1.9500e-003	1.8700e-003	102.3990
Landscaping	0.1458	0.0559	4.8535	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9359	7.9359	7.6000e-003	0.0000	8.1259
Total	**4.8598**	**0.1438**	**4.8909**	**8.2000e-004**		**0.0340**	**0.0340**		**0.0340**	**0.0340**	**0.0000**	**109.7300**	**109.7300**	**9.5500e-003**	**1.8700e-003**	**110.5250**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	207.4760	1.0570	0.0275	242.0878
Unmitigated	237.0675	1.0591	0.0279	271.8574

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 50.1614	105.5372	7.3300e-003	1.5200e-003	106.1725
Condo/Townhouse	12.6399 / 7.96862	51.9437	0.4152	0.0104	65.4271
Health Club	1.33072 / 0.815603	5.4195	0.0437	1.1000e-003	6.8388
Single Family Housing	18.0477 / 11.3779	74.1671	0.5928	0.0149	93.4191
Total		**237.0675**	**1.0591**	**0.0279**	**271.8574**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 40.1291	84.4298	5.8600e-003	1.2100e-003	84.9380
Condo/Townhouse	12.6399 / 6.3749	48.5906	0.4150	0.0104	62.0538
Health Club	1.33072 / 0.652482	5.0763	0.0437	1.0900e-003	6.4935
Single Family Housing	18.0477 / 9.1023	69.3793	0.5925	0.0148	88.6026
Total		**207.4760**	**1.0570**	**0.0275**	**242.0878**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	114.0444	6.7398	0.0000	282.5401
Unmitigated	114.0444	6.7398	0.0000	282.5401

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	89.24	18.1149	1.0706	0.0000	44.8789
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Total		**114.0444**	**6.7398**	**0.0000**	**282.5401**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	89.24	18.1149	1.0706	0.0000	44.8789
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Total		**114.0444**	**6.7398**	**0.0000**	**282.5401**

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
Emergency Generator	1	0	50	500	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Total	**0.0205**	**0.0573**	**0.0523**	**1.0000e-004**		**3.0200e-003**	**3.0200e-003**		**3.0200e-003**	**3.0200e-003**	**0.0000**	**9.5199**	**9.5199**	**1.3300e-003**	**0.0000**	**9.5533**

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-1,995.3004	0.0000	0.0000	-1,995.3004

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	67.79 / 14.25	-230.7574	0.0000	0.0000	-230.7574
Scrub	25.74 / 54.33	408.8370	0.0000	0.0000	408.8370
Trees	44.51 / 24.93	-2,173.3800	0.0000	0.0000	-2,173.3800
Total		**-1,995.3004**	**0.0000**	**0.0000**	**-1,995.3004**

Rancho La Habra - Residential Option (2030 Operations - Mitigated)

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	42.10	Acre	42.10	1,833,876.00	0
Health Club	22.50	1000sqft	0.52	22,500.00	0
Condo/Townhouse	194.00	Dwelling Unit	9.52	368,600.00	582
Single Family Housing	277.00	Dwelling Unit	97.86	801,638.00	831

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	367.5	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Rancho La Habra - Residential Option (2030 Operations - Mitigated) - Orange County, Annual

Project Characteristics - CO2 intensity factor represents CO2e intensity factor. Intensity factor presented here is 50% projected RPS for 2030 consistent with SB 32 and SB 350.

Land Use - Total Project Area = 150 acres; Average Condo Size = 1,900 SF; Average Single Family Home Size = 2,894 SF

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Based on TIA (Linscott Law & Greenspan Engineers) and ITE Trip Generation Manual, 10th Edition

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Land Use Change -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 53% (residential) and 30% (nonresidential) to reflect 2019 Title 24 requirements.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	200.00	1.00
tblEnergyUse	LightingElect	1,001.10	470.52
tblEnergyUse	LightingElect	2.99	2.09
tblEnergyUse	LightingElect	1,608.84	756.15
tblEnergyUse	T24E	172.41	81.03
tblEnergyUse	T24E	1.63	1.14
tblEnergyUse	T24E	253.73	119.25

Rancho La Habra - Residential Option (2030 Operations - Mitigated) - Orange County, Annual

tblEnergyUse	T24NG	12,129.63	5,700.93
tblEnergyUse	T24NG	14.04	9.83
tblEnergyUse	T24NG	20,288.91	9,535.79
tblLandUse	LandUseSquareFeet	194,000.00	368,600.00
tblLandUse	LandUseSquareFeet	498,600.00	801,638.00
tblLandUse	LotAcreage	12.13	9.52
tblLandUse	LotAcreage	89.94	97.86
tblLandUse	Population	555.00	582.00
tblLandUse	Population	792.00	831.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	367.5
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleEF	HHD	0.33	0.03
tblVehicleEF	HHD	0.17	0.16
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.30	6.04
tblVehicleEF	HHD	1.34	0.74
tblVehicleEF	HHD	4.99	0.01
tblVehicleEF	HHD	3,557.45	904.71
tblVehicleEF	HHD	1,540.31	1,225.38
tblVehicleEF	HHD	15.78	0.08
tblVehicleEF	HHD	11.18	5.05
tblVehicleEF	HHD	1.44	2.22

tblVehicleEF	HHD	5.0130e-003	2.2800e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.5350e-003	0.02
tblVehicleEF	HHD	1.7400e-004	1.0000e-006
tblVehicleEF	HHD	4.7960e-003	2.1820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6690e-003	8.7560e-003
tblVehicleEF	HHD	5.2950e-003	0.02
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.3800e-004	2.0000e-006
tblVehicleEF	HHD	5.4310e-003	9.2000e-005
tblVehicleEF	HHD	0.31	0.40
tblVehicleEF	HHD	1.1000e-004	2.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	5.1200e-004	4.1300e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	8.2090e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.3800e-004	2.0000e-006
tblVehicleEF	HHD	5.4310e-003	9.2000e-005
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tblVehicleEF	HHD	1.1000e-004	2.0000e-006
tblVehicleEF	HHD	0.25	0.18
tblVehicleEF	HHD	5.1200e-004	4.1300e-004
tblVehicleEF	HHD	0.09	4.0000e-006

tblVehicleEF	HHD	0.31	0.03
tblVehicleEF	HHD	0.17	0.16
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.94	5.96
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tblVehicleEF	HHD	4.76	0.01
tblVehicleEF	HHD	3,768.80	894.01
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	5.5350e-003	0.02
tblVehicleEF	HHD	1.7400e-004	1.0000e-006
tblVehicleEF	HHD	4.0430e-003	1.9150e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.6690e-003	8.7560e-003
tblVehicleEF	HHD	5.2950e-003	0.02
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.9500e-004	3.0000e-006
tblVehicleEF	HHD	5.5330e-003	9.4000e-005
tblVehicleEF	HHD	0.29	0.42
tblVehicleEF	HHD	1.4800e-004	2.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	4.9100e-004	3.9800e-004

tblVehicleEF	HHD	0.08	3.0000e-006
tblVehicleEF	HHD	0.03	8.1100e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.3500e-004	1.0000e-006
tblVehicleEF	HHD	1.9500e-004	3.0000e-006
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tblVehicleEF	HHD	1.4800e-004	2.0000e-006
tblVehicleEF	HHD	0.25	0.18
tblVehicleEF	HHD	4.9100e-004	3.9800e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.35	0.02
tblVehicleEF	HHD	0.17	8.6300e-004
tblVehicleEF	HHD	0.05	1.0000e-006
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tblVehicleEF	HHD	5.04	0.01
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tblVehicleEF	HHD	10.69	5.16
tblVehicleEF	HHD	1.42	2.15
tblVehicleEF	HHD	6.1000e-003	2.4530e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	5.5350e-003	0.02
tblVehicleEF	HHD	1.7400e-004	1.0000e-006

tblVehicleEF	HHD	5.8360e-003	2.3470e-003
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6690e-003	8.4280e-003
tblVehicleEF	HHD	5.2950e-003	0.02
tblVehicleEF	HHD	1.6000e-004	1.0000e-006
tblVehicleEF	HHD	1.3100e-004	2.0000e-006
tblVehicleEF	HHD	5.6890e-003	9.8000e-005
tblVehicleEF	HHD	0.34	0.36
tblVehicleEF	HHD	1.0800e-004	2.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	5.6400e-004	4.5200e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	HHD	0.03	8.3450e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.3900e-004	1.0000e-006
tblVehicleEF	HHD	1.3100e-004	2.0000e-006
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tblVehicleEF	HHD	1.0800e-004	2.0000e-006
tblVehicleEF	HHD	0.25	0.02
tblVehicleEF	HHD	5.6400e-004	4.5200e-004
tblVehicleEF	HHD	0.09	4.0000e-006
tblVehicleEF	LDA	2.0690e-003	1.0330e-003
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tblVehicleEF	LDA	0.35	0.43
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tblVehicleEF	LDA	41.78	41.68
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.2480e-003	9.8400e-004
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tblVehicleEF	LDA	1.6340e-003	1.1360e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	5.1930e-003	3.3930e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.02	0.11
tblVehicleEF	LDA	1.8870e-003	2.0260e-003
tblVehicleEF	LDA	4.2700e-004	4.1200e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	7.5510e-003	4.9250e-003
tblVehicleEF	LDA	0.03	0.16
tblVehicleEF	LDA	0.03	0.12
tblVehicleEF	LDA	2.1880e-003	1.1020e-003
tblVehicleEF	LDA	1.6660e-003	0.02
tblVehicleEF	LDA	0.38	0.47
tblVehicleEF	LDA	0.48	1.33
tblVehicleEF	LDA	196.50	213.13
tblVehicleEF	LDA	41.78	41.31
tblVehicleEF	LDA	0.02	0.02

tblVehicleEF	LDA	1.2480e-003	9.8400e-004
tblVehicleEF	LDA	1.7770e-003	1.2350e-003
tblVehicleEF	LDA	1.1490e-003	9.0500e-004
tblVehicleEF	LDA	1.6340e-003	1.1360e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	5.4870e-003	3.5830e-003
tblVehicleEF	LDA	0.03	0.15
tblVehicleEF	LDA	0.02	0.10
tblVehicleEF	LDA	1.9670e-003	2.1080e-003
tblVehicleEF	LDA	4.2500e-004	4.0900e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.9810e-003	5.2030e-003
tblVehicleEF	LDA	0.03	0.15
tblVehicleEF	LDA	0.02	0.11
tblVehicleEF	LDA	2.0290e-003	1.0120e-003
tblVehicleEF	LDA	1.8860e-003	0.03
tblVehicleEF	LDA	0.34	0.42
tblVehicleEF	LDA	0.57	1.58
tblVehicleEF	LDA	185.69	201.72
tblVehicleEF	LDA	41.78	41.76
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.2480e-003	9.8400e-004
tblVehicleEF	LDA	1.7770e-003	1.2350e-003

tblVehicleEF	LDA	1.1490e-003	9.0500e-004
tblVehicleEF	LDA	1.6340e-003	1.1360e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	5.0940e-003	3.3290e-003
tblVehicleEF	LDA	0.04	0.18
tblVehicleEF	LDA	0.03	0.11
tblVehicleEF	LDA	1.8580e-003	1.9950e-003
tblVehicleEF	LDA	4.2700e-004	4.1300e-004
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	7.4070e-003	4.8320e-003
tblVehicleEF	LDA	0.04	0.18
tblVehicleEF	LDA	0.03	0.12
tblVehicleEF	LDT1	4.1590e-003	2.0520e-003
tblVehicleEF	LDT1	5.1730e-003	0.04
tblVehicleEF	LDT1	0.59	0.60
tblVehicleEF	LDT1	1.19	1.69
tblVehicleEF	LDT1	245.47	248.85
tblVehicleEF	LDT1	55.52	51.46
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	1.6120e-003	1.1950e-003
tblVehicleEF	LDT1	2.2750e-003	1.4960e-003
tblVehicleEF	LDT1	1.4830e-003	1.0990e-003
tblVehicleEF	LDT1	2.0920e-003	1.3750e-003

tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.01	8.0170e-003
tblVehicleEF	LDT1	0.10	0.38
tblVehicleEF	LDT1	0.07	0.15
tblVehicleEF	LDT1	2.4600e-003	2.4630e-003
tblVehicleEF	LDT1	5.7500e-004	5.0900e-004
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.10	0.38
tblVehicleEF	LDT1	0.08	0.17
tblVehicleEF	LDT1	4.3830e-003	2.1780e-003
tblVehicleEF	LDT1	4.6540e-003	0.03
tblVehicleEF	LDT1	0.64	0.65
tblVehicleEF	LDT1	1.03	1.46
tblVehicleEF	LDT1	255.45	257.51
tblVehicleEF	LDT1	55.52	51.04
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	1.6120e-003	1.1950e-003
tblVehicleEF	LDT1	2.2750e-003	1.4960e-003
tblVehicleEF	LDT1	1.4830e-003	1.0990e-003
tblVehicleEF	LDT1	2.0920e-003	1.3750e-003
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	0.15	0.11

tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.01	8.4480e-003
tblVehicleEF	LDT1	0.09	0.35
tblVehicleEF	LDT1	0.06	0.14
tblVehicleEF	LDT1	2.5600e-003	2.5480e-003
tblVehicleEF	LDT1	5.7200e-004	5.0500e-004
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	0.15	0.11
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.09	0.35
tblVehicleEF	LDT1	0.07	0.15
tblVehicleEF	LDT1	4.0840e-003	2.0120e-003
tblVehicleEF	LDT1	5.2800e-003	0.04
tblVehicleEF	LDT1	0.57	0.58
tblVehicleEF	LDT1	1.22	1.74
tblVehicleEF	LDT1	241.79	245.66
tblVehicleEF	LDT1	55.52	51.55
tblVehicleEF	LDT1	0.05	0.03
tblVehicleEF	LDT1	1.6120e-003	1.1950e-003
tblVehicleEF	LDT1	2.2750e-003	1.4960e-003
tblVehicleEF	LDT1	1.4830e-003	1.0990e-003
tblVehicleEF	LDT1	2.0920e-003	1.3750e-003
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.16	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.01	7.8730e-003

tblVehicleEF	LDT1	0.12	0.44
tblVehicleEF	LDT1	0.07	0.16
tblVehicleEF	LDT1	2.4230e-003	2.4310e-003
tblVehicleEF	LDT1	5.7600e-004	5.1000e-004
tblVehicleEF	LDT1	0.07	0.06
tblVehicleEF	LDT1	0.16	0.11
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.12	0.44
tblVehicleEF	LDT1	0.08	0.17
tblVehicleEF	LDT2	3.0820e-003	1.8160e-003
tblVehicleEF	LDT2	2.7700e-003	0.04
tblVehicleEF	LDT2	0.50	0.57
tblVehicleEF	LDT2	0.78	2.05
tblVehicleEF	LDT2	273.74	254.17
tblVehicleEF	LDT2	60.77	52.84
tblVehicleEF	LDT2	0.04	0.03
tblVehicleEF	LDT2	1.4250e-003	1.0950e-003
tblVehicleEF	LDT2	2.0080e-003	1.3060e-003
tblVehicleEF	LDT2	1.3100e-003	1.0080e-003
tblVehicleEF	LDT2	1.8460e-003	1.2010e-003
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	7.6610e-003	6.6700e-003
tblVehicleEF	LDT2	0.05	0.31
tblVehicleEF	LDT2	0.04	0.16

tblVehicleEF	LDT2	2.7400e-003	2.5140e-003
tblVehicleEF	LDT2	6.2000e-004	5.2300e-004
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.01	9.6820e-003
tblVehicleEF	LDT2	0.05	0.31
tblVehicleEF	LDT2	0.04	0.18
tblVehicleEF	LDT2	3.2570e-003	1.9320e-003
tblVehicleEF	LDT2	2.5110e-003	0.04
tblVehicleEF	LDT2	0.54	0.62
tblVehicleEF	LDT2	0.69	1.77
tblVehicleEF	LDT2	284.96	262.18
tblVehicleEF	LDT2	60.77	52.34
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	1.4250e-003	1.0950e-003
tblVehicleEF	LDT2	2.0080e-003	1.3060e-003
tblVehicleEF	LDT2	1.3100e-003	1.0080e-003
tblVehicleEF	LDT2	1.8460e-003	1.2010e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	8.0930e-003	7.0320e-003
tblVehicleEF	LDT2	0.04	0.28
tblVehicleEF	LDT2	0.03	0.15
tblVehicleEF	LDT2	2.8530e-003	2.5940e-003
tblVehicleEF	LDT2	6.1900e-004	5.1800e-004

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.04	0.28
tblVehicleEF	LDT2	0.04	0.16
tblVehicleEF	LDT2	3.0240e-003	1.7790e-003
tblVehicleEF	LDT2	2.8240e-003	0.04
tblVehicleEF	LDT2	0.48	0.55
tblVehicleEF	LDT2	0.80	2.11
tblVehicleEF	LDT2	269.60	251.22
tblVehicleEF	LDT2	60.77	52.95
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	1.4250e-003	1.0950e-003
tblVehicleEF	LDT2	2.0080e-003	1.3060e-003
tblVehicleEF	LDT2	1.3100e-003	1.0080e-003
tblVehicleEF	LDT2	1.8460e-003	1.2010e-003
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	7.5160e-003	6.5490e-003
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.04	0.17
tblVehicleEF	LDT2	2.6990e-003	2.4850e-003
tblVehicleEF	LDT2	6.2000e-004	5.2400e-004
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.07	0.09

tblVehicleEF	LDT2	0.03	0.06
tblVehicleEF	LDT2	0.01	9.5050e-003
tblVehicleEF	LDT2	0.06	0.36
tblVehicleEF	LDT2	0.04	0.18
tblVehicleEF	LHD1	3.6680e-003	4.1900e-003
tblVehicleEF	LHD1	3.7310e-003	2.2040e-003
tblVehicleEF	LHD1	9.1500e-003	8.4190e-003
tblVehicleEF	LHD1	0.13	0.17
tblVehicleEF	LHD1	0.33	0.24
tblVehicleEF	LHD1	1.42	0.81
tblVehicleEF	LHD1	9.03	8.33
tblVehicleEF	LHD1	547.88	565.23
tblVehicleEF	LHD1	24.89	9.69
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.50	0.28
tblVehicleEF	LHD1	8.3500e-004	9.6100e-004
tblVehicleEF	LHD1	0.01	9.9900e-003
tblVehicleEF	LHD1	7.2830e-003	5.0070e-003
tblVehicleEF	LHD1	5.7300e-004	1.8900e-004
tblVehicleEF	LHD1	7.9900e-004	9.1900e-004
tblVehicleEF	LHD1	2.6340e-003	2.4980e-003
tblVehicleEF	LHD1	6.9520e-003	4.7690e-003
tblVehicleEF	LHD1	5.2700e-004	1.7400e-004
tblVehicleEF	LHD1	1.7610e-003	1.4110e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.2230e-003	1.0000e-003

tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.21	0.34
tblVehicleEF	LHD1	0.12	0.04
tblVehicleEF	LHD1	8.9000e-005	8.1000e-005
tblVehicleEF	LHD1	5.3450e-003	5.5020e-003
tblVehicleEF	LHD1	2.7500e-004	9.6000e-005
tblVehicleEF	LHD1	1.7610e-003	1.4110e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2230e-003	1.0000e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.21	0.34
tblVehicleEF	LHD1	0.14	0.04
tblVehicleEF	LHD1	3.6680e-003	4.1990e-003
tblVehicleEF	LHD1	3.7730e-003	2.2260e-003
tblVehicleEF	LHD1	8.8380e-003	8.1560e-003
tblVehicleEF	LHD1	0.13	0.17
tblVehicleEF	LHD1	0.33	0.24
tblVehicleEF	LHD1	1.36	0.78
tblVehicleEF	LHD1	9.03	8.33
tblVehicleEF	LHD1	547.88	565.24
tblVehicleEF	LHD1	24.89	9.64
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.48	0.26
tblVehicleEF	LHD1	8.3500e-004	9.6100e-004
tblVehicleEF	LHD1	0.01	9.9900e-003
tblVehicleEF	LHD1	7.2830e-003	5.0070e-003

tblVehicleEF	LHD1	5.7300e-004	1.8900e-004
tblVehicleEF	LHD1	7.9900e-004	9.1900e-004
tblVehicleEF	LHD1	2.6340e-003	2.4980e-003
tblVehicleEF	LHD1	6.9520e-003	4.7690e-003
tblVehicleEF	LHD1	5.2700e-004	1.7400e-004
tblVehicleEF	LHD1	2.4560e-003	1.9770e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.6340e-003	1.3420e-003
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.21	0.33
tblVehicleEF	LHD1	0.12	0.04
tblVehicleEF	LHD1	8.9000e-005	8.1000e-005
tblVehicleEF	LHD1	5.3450e-003	5.5020e-003
tblVehicleEF	LHD1	2.7400e-004	9.5000e-005
tblVehicleEF	LHD1	2.4560e-003	1.9770e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6340e-003	1.3420e-003
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.21	0.33
tblVehicleEF	LHD1	0.13	0.04
tblVehicleEF	LHD1	3.6680e-003	4.1890e-003
tblVehicleEF	LHD1	3.7200e-003	2.1980e-003
tblVehicleEF	LHD1	9.2140e-003	8.4740e-003
tblVehicleEF	LHD1	0.13	0.17
tblVehicleEF	LHD1	0.33	0.24

tblVehicleEF	LHD1	1.43	0.81
tblVehicleEF	LHD1	9.03	8.33
tblVehicleEF	LHD1	547.88	565.23
tblVehicleEF	LHD1	24.89	9.70
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.50	0.27
tblVehicleEF	LHD1	8.3500e-004	9.6100e-004
tblVehicleEF	LHD1	0.01	9.9900e-003
tblVehicleEF	LHD1	7.2830e-003	5.0070e-003
tblVehicleEF	LHD1	5.7300e-004	1.8900e-004
tblVehicleEF	LHD1	7.9900e-004	9.1900e-004
tblVehicleEF	LHD1	2.6340e-003	2.4980e-003
tblVehicleEF	LHD1	6.9520e-003	4.7690e-003
tblVehicleEF	LHD1	5.2700e-004	1.7400e-004
tblVehicleEF	LHD1	1.7580e-003	1.4020e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.2120e-003	9.9300e-004
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.23	0.37
tblVehicleEF	LHD1	0.12	0.04
tblVehicleEF	LHD1	8.9000e-005	8.1000e-005
tblVehicleEF	LHD1	5.3450e-003	5.5020e-003
tblVehicleEF	LHD1	2.7500e-004	9.6000e-005
tblVehicleEF	LHD1	1.7580e-003	1.4020e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.2120e-003	9.9300e-004
tblVehicleEF	LHD1	0.05	0.03
tblVehicleEF	LHD1	0.23	0.37
tblVehicleEF	LHD1	0.14	0.04
tblVehicleEF	LHD2	2.6760e-003	2.9380e-003
tblVehicleEF	LHD2	1.9930e-003	2.0540e-003
tblVehicleEF	LHD2	3.4580e-003	5.7150e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.18	0.22
tblVehicleEF	LHD2	0.88	0.52
tblVehicleEF	LHD2	13.52	12.81
tblVehicleEF	LHD2	575.89	573.59
tblVehicleEF	LHD2	22.80	7.31
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.19	0.33
tblVehicleEF	LHD2	1.0200e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.4940e-003	9.3430e-003
tblVehicleEF	LHD2	3.7300e-004	1.0900e-004
tblVehicleEF	LHD2	9.7600e-004	1.3420e-003
tblVehicleEF	LHD2	2.7000e-003	2.6860e-003
tblVehicleEF	LHD2	6.2010e-003	8.9260e-003
tblVehicleEF	LHD2	3.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.2800e-004	8.6500e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.8000e-004	6.5300e-004

tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.04	0.16
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2300e-004
tblVehicleEF	LHD2	5.5980e-003	5.5370e-003
tblVehicleEF	LHD2	2.4300e-004	7.2000e-005
tblVehicleEF	LHD2	6.2800e-004	8.6500e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.8000e-004	6.5300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.04	0.16
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	2.6760e-003	2.9440e-003
tblVehicleEF	LHD2	2.0060e-003	2.0660e-003
tblVehicleEF	LHD2	3.3820e-003	5.5360e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.18	0.22
tblVehicleEF	LHD2	0.85	0.50
tblVehicleEF	LHD2	13.52	12.81
tblVehicleEF	LHD2	575.89	573.59
tblVehicleEF	LHD2	22.80	7.27
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.18	0.31
tblVehicleEF	LHD2	1.0200e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.4940e-003	9.3430e-003

tblVehicleEF	LHD2	3.7300e-004	1.0900e-004
tblVehicleEF	LHD2	9.7600e-004	1.3420e-003
tblVehicleEF	LHD2	2.7000e-003	2.6860e-003
tblVehicleEF	LHD2	6.2010e-003	8.9260e-003
tblVehicleEF	LHD2	3.4300e-004	1.0000e-004
tblVehicleEF	LHD2	8.8400e-004	1.2130e-003
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.4400e-004	8.7400e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.04	0.15
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2300e-004
tblVehicleEF	LHD2	5.5980e-003	5.5370e-003
tblVehicleEF	LHD2	2.4200e-004	7.2000e-005
tblVehicleEF	LHD2	8.8400e-004	1.2130e-003
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.4400e-004	8.7400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.04	0.15
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	2.6760e-003	2.9370e-003
tblVehicleEF	LHD2	1.9900e-003	2.0510e-003
tblVehicleEF	LHD2	3.4730e-003	5.7510e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.18	0.22

tblVehicleEF	LHD2	0.89	0.52
tblVehicleEF	LHD2	13.52	12.81
tblVehicleEF	LHD2	575.89	573.59
tblVehicleEF	LHD2	22.80	7.31
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.18	0.32
tblVehicleEF	LHD2	1.0200e-003	1.4030e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.4940e-003	9.3430e-003
tblVehicleEF	LHD2	3.7300e-004	1.0900e-004
tblVehicleEF	LHD2	9.7600e-004	1.3420e-003
tblVehicleEF	LHD2	2.7000e-003	2.6860e-003
tblVehicleEF	LHD2	6.2010e-003	8.9260e-003
tblVehicleEF	LHD2	3.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.0400e-004	8.3300e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	4.7200e-004	6.4000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.05	0.17
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	LHD2	1.3200e-004	1.2300e-004
tblVehicleEF	LHD2	5.5980e-003	5.5370e-003
tblVehicleEF	LHD2	2.4300e-004	7.2000e-005
tblVehicleEF	LHD2	6.0400e-004	8.3300e-004
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	4.7200e-004	6.4000e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.05	0.17
tblVehicleEF	LHD2	0.05	0.03
tblVehicleEF	MCY	0.50	0.34
tblVehicleEF	MCY	0.14	0.23
tblVehicleEF	MCY	17.26	17.38
tblVehicleEF	MCY	9.72	8.61
tblVehicleEF	MCY	179.77	214.54
tblVehicleEF	MCY	42.52	57.78
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	2.3880e-003	2.3750e-003
tblVehicleEF	MCY	3.3170e-003	2.8970e-003
tblVehicleEF	MCY	2.2270e-003	2.2150e-003
tblVehicleEF	MCY	3.1010e-003	2.7100e-003
tblVehicleEF	MCY	1.11	1.14
tblVehicleEF	MCY	0.61	0.64
tblVehicleEF	MCY	0.67	0.68
tblVehicleEF	MCY	2.29	2.30
tblVehicleEF	MCY	0.49	1.44
tblVehicleEF	MCY	1.97	1.75
tblVehicleEF	MCY	2.1500e-003	2.1230e-003
tblVehicleEF	MCY	6.4200e-004	5.7200e-004
tblVehicleEF	MCY	1.11	1.14
tblVehicleEF	MCY	0.61	0.64
tblVehicleEF	MCY	0.67	0.68
tblVehicleEF	MCY	2.88	2.89

tblVehicleEF	MCY	0.49	1.44
tblVehicleEF	MCY	2.14	1.91
tblVehicleEF	MCY	0.49	0.34
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	16.69	16.79
tblVehicleEF	MCY	8.90	7.85
tblVehicleEF	MCY	179.77	213.45
tblVehicleEF	MCY	42.52	55.99
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	2.3880e-003	2.3750e-003
tblVehicleEF	MCY	3.3170e-003	2.8970e-003
tblVehicleEF	MCY	2.2270e-003	2.2150e-003
tblVehicleEF	MCY	3.1010e-003	2.7100e-003
tblVehicleEF	MCY	1.67	1.71
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	2.25	2.26
tblVehicleEF	MCY	0.46	1.34
tblVehicleEF	MCY	1.78	1.57
tblVehicleEF	MCY	2.1390e-003	2.1120e-003
tblVehicleEF	MCY	6.2300e-004	5.5400e-004
tblVehicleEF	MCY	1.67	1.71
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	2.83	2.83
tblVehicleEF	MCY	0.46	1.34
tblVehicleEF	MCY	1.94	1.71

tblVehicleEF	MCY	0.50	0.34
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	17.35	17.46
tblVehicleEF	MCY	9.85	8.74
tblVehicleEF	MCY	179.77	214.71
tblVehicleEF	MCY	42.52	58.10
tblVehicleEF	MCY	1.08	1.08
tblVehicleEF	MCY	2.3880e-003	2.3750e-003
tblVehicleEF	MCY	3.3170e-003	2.8970e-003
tblVehicleEF	MCY	2.2270e-003	2.2150e-003
tblVehicleEF	MCY	3.1010e-003	2.7100e-003
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.77	0.81
tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	2.30	2.31
tblVehicleEF	MCY	0.58	1.69
tblVehicleEF	MCY	2.00	1.78
tblVehicleEF	MCY	2.1510e-003	2.1250e-003
tblVehicleEF	MCY	6.4500e-004	5.7500e-004
tblVehicleEF	MCY	1.24	1.27
tblVehicleEF	MCY	0.77	0.81
tblVehicleEF	MCY	0.70	0.71
tblVehicleEF	MCY	2.89	2.90
tblVehicleEF	MCY	0.58	1.69
tblVehicleEF	MCY	2.18	1.94
tblVehicleEF	MDV	4.9650e-003	2.0140e-003
tblVehicleEF	MDV	5.4700e-003	0.04

tblVehicleEF	MDV	0.66	0.58
tblVehicleEF	MDV	1.21	2.11
tblVehicleEF	MDV	373.54	313.86
tblVehicleEF	MDV	81.39	63.70
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	1.4900e-003	1.1220e-003
tblVehicleEF	MDV	1.9880e-003	1.2940e-003
tblVehicleEF	MDV	1.3720e-003	1.0350e-003
tblVehicleEF	MDV	1.8280e-003	1.1900e-003
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.11	0.10
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.01	7.5990e-003
tblVehicleEF	MDV	0.08	0.32
tblVehicleEF	MDV	0.07	0.18
tblVehicleEF	MDV	3.7360e-003	3.1020e-003
tblVehicleEF	MDV	8.3400e-004	6.3000e-004
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.11	0.10
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.08	0.32
tblVehicleEF	MDV	0.08	0.20
tblVehicleEF	MDV	5.2420e-003	2.1420e-003
tblVehicleEF	MDV	4.9410e-003	0.04
tblVehicleEF	MDV	0.72	0.63
tblVehicleEF	MDV	1.05	1.82

tblVehicleEF	MDV	388.37	321.93
tblVehicleEF	MDV	81.39	63.18
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	1.4900e-003	1.1220e-003
tblVehicleEF	MDV	1.9880e-003	1.2940e-003
tblVehicleEF	MDV	1.3720e-003	1.0350e-003
tblVehicleEF	MDV	1.8280e-003	1.1900e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.11	0.10
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.01	8.0070e-003
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.07	0.16
tblVehicleEF	MDV	3.8850e-003	3.1820e-003
tblVehicleEF	MDV	8.3100e-004	6.2500e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.11	0.10
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.07	0.18
tblVehicleEF	MDV	4.8720e-003	1.9730e-003
tblVehicleEF	MDV	5.5790e-003	0.04
tblVehicleEF	MDV	0.64	0.57
tblVehicleEF	MDV	1.24	2.17
tblVehicleEF	MDV	368.06	310.88
tblVehicleEF	MDV	81.39	63.81

tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	1.4900e-003	1.1220e-003
tblVehicleEF	MDV	1.9880e-003	1.2940e-003
tblVehicleEF	MDV	1.3720e-003	1.0350e-003
tblVehicleEF	MDV	1.8280e-003	1.1900e-003
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.01	7.4630e-003
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.08	0.19
tblVehicleEF	MDV	3.6810e-003	3.0720e-003
tblVehicleEF	MDV	8.3400e-004	6.3100e-004
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.12	0.10
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	0.09	0.38
tblVehicleEF	MDV	0.08	0.20
tblVehicleEF	MH	6.1270e-003	2.7510e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.23
tblVehicleEF	MH	3.40	0.00
tblVehicleEF	MH	1,076.55	881.41
tblVehicleEF	MH	55.98	0.00
tblVehicleEF	MH	0.79	2.93
tblVehicleEF	MH	0.01	0.02

tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	8.0700e-004	0.00
tblVehicleEF	MH	3.2310e-003	4.0000e-003
tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	7.4200e-004	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.03	0.06
tblVehicleEF	MH	9.0990e-003	0.00
tblVehicleEF	MH	0.20	0.00
tblVehicleEF	MH	0.01	8.3320e-003
tblVehicleEF	MH	6.1900e-004	0.00
tblVehicleEF	MH	0.49	0.00
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.04	0.07
tblVehicleEF	MH	9.0990e-003	0.00
tblVehicleEF	MH	0.22	0.00
tblVehicleEF	MH	6.2410e-003	2.7510e-003
tblVehicleEF	MH	0.01	0.00
tblVehicleEF	MH	0.39	0.23
tblVehicleEF	MH	3.23	0.00
tblVehicleEF	MH	1,076.55	881.41
tblVehicleEF	MH	55.98	0.00
tblVehicleEF	MH	0.74	2.77
tblVehicleEF	MH	0.01	0.02

tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	8.0700e-004	0.00
tblVehicleEF	MH	3.2310e-003	4.0000e-003
tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	7.4200e-004	0.00
tblVehicleEF	MH	0.67	0.00
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.03	0.06
tblVehicleEF	MH	8.8670e-003	0.00
tblVehicleEF	MH	0.20	0.00
tblVehicleEF	MH	0.01	8.3320e-003
tblVehicleEF	MH	6.1600e-004	0.00
tblVehicleEF	MH	0.67	0.00
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.04	0.07
tblVehicleEF	MH	8.8670e-003	0.00
tblVehicleEF	MH	0.21	0.00
tblVehicleEF	MH	6.0930e-003	2.7510e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.38	0.23
tblVehicleEF	MH	3.43	0.00
tblVehicleEF	MH	1,076.55	881.41
tblVehicleEF	MH	55.98	0.00
tblVehicleEF	MH	0.77	2.87
tblVehicleEF	MH	0.01	0.02

tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	8.0700e-004	0.00
tblVehicleEF	MH	3.2310e-003	4.0000e-003
tblVehicleEF	MH	0.01	0.06
tblVehicleEF	MH	7.4200e-004	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.04	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.03	0.06
tblVehicleEF	MH	9.6530e-003	0.00
tblVehicleEF	MH	0.21	0.00
tblVehicleEF	MH	0.01	8.3320e-003
tblVehicleEF	MH	6.1900e-004	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.04	0.00
tblVehicleEF	MH	0.25	0.00
tblVehicleEF	MH	0.03	0.07
tblVehicleEF	MH	9.6530e-003	0.00
tblVehicleEF	MH	0.23	0.00
tblVehicleEF	MHD	0.02	3.7980e-003
tblVehicleEF	MHD	1.8970e-003	7.1500e-004
tblVehicleEF	MHD	0.03	8.4520e-003
tblVehicleEF	MHD	0.30	0.35
tblVehicleEF	MHD	0.19	0.10
tblVehicleEF	MHD	3.13	0.82
tblVehicleEF	MHD	151.70	49.40
tblVehicleEF	MHD	1,105.31	877.18

tblVehicleEF	MHD	50.74	9.17
tblVehicleEF	MHD	0.39	0.23
tblVehicleEF	MHD	0.62	0.99
tblVehicleEF	MHD	4.2000e-005	8.8000e-005
tblVehicleEF	MHD	2.8270e-003	6.4920e-003
tblVehicleEF	MHD	6.3100e-004	9.6000e-005
tblVehicleEF	MHD	4.0000e-005	8.4000e-005
tblVehicleEF	MHD	2.7010e-003	6.2070e-003
tblVehicleEF	MHD	5.8000e-004	8.8000e-005
tblVehicleEF	MHD	7.1300e-004	4.1500e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.4600e-004	3.2800e-004
tblVehicleEF	MHD	0.03	8.0600e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.20	0.04
tblVehicleEF	MHD	1.4580e-003	4.7000e-004
tblVehicleEF	MHD	0.01	8.3700e-003
tblVehicleEF	MHD	5.6200e-004	9.1000e-005
tblVehicleEF	MHD	7.1300e-004	4.1500e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.4600e-004	3.2800e-004
tblVehicleEF	MHD	0.04	9.7420e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.22	0.05
tblVehicleEF	MHD	0.01	3.6090e-003

tblVehicleEF	MHD	1.9070e-003	7.2600e-004
tblVehicleEF	MHD	0.03	8.1800e-003
tblVehicleEF	MHD	0.22	0.29
tblVehicleEF	MHD	0.19	0.11
tblVehicleEF	MHD	2.98	0.79
tblVehicleEF	MHD	160.69	49.14
tblVehicleEF	MHD	1,105.31	877.18
tblVehicleEF	MHD	50.74	9.10
tblVehicleEF	MHD	0.40	0.22
tblVehicleEF	MHD	0.59	0.94
tblVehicleEF	MHD	3.6000e-005	7.7000e-005
tblVehicleEF	MHD	2.8270e-003	6.4920e-003
tblVehicleEF	MHD	6.3100e-004	9.6000e-005
tblVehicleEF	MHD	3.4000e-005	7.3000e-005
tblVehicleEF	MHD	2.7010e-003	6.2070e-003
tblVehicleEF	MHD	5.8000e-004	8.8000e-005
tblVehicleEF	MHD	1.0030e-003	5.8300e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.3400e-004	4.3800e-004
tblVehicleEF	MHD	0.03	8.0960e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.19	0.04
tblVehicleEF	MHD	1.5420e-003	4.6700e-004
tblVehicleEF	MHD	0.01	8.3700e-003
tblVehicleEF	MHD	5.6000e-004	9.0000e-005
tblVehicleEF	MHD	1.0030e-003	5.8300e-004

tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.3400e-004	4.3800e-004
tblVehicleEF	MHD	0.04	9.7950e-003
tblVehicleEF	MHD	0.01	0.09
tblVehicleEF	MHD	0.21	0.04
tblVehicleEF	MHD	0.02	4.0740e-003
tblVehicleEF	MHD	1.8930e-003	7.1100e-004
tblVehicleEF	MHD	0.03	8.4950e-003
tblVehicleEF	MHD	0.42	0.43
tblVehicleEF	MHD	0.19	0.10
tblVehicleEF	MHD	3.16	0.83
tblVehicleEF	MHD	139.28	49.76
tblVehicleEF	MHD	1,105.31	877.18
tblVehicleEF	MHD	50.74	9.18
tblVehicleEF	MHD	0.37	0.25
tblVehicleEF	MHD	0.61	0.97
tblVehicleEF	MHD	5.1000e-005	1.0400e-004
tblVehicleEF	MHD	2.8270e-003	6.4920e-003
tblVehicleEF	MHD	6.3100e-004	9.6000e-005
tblVehicleEF	MHD	4.9000e-005	9.9000e-005
tblVehicleEF	MHD	2.7010e-003	6.2070e-003
tblVehicleEF	MHD	5.8000e-004	8.8000e-005
tblVehicleEF	MHD	6.8500e-004	3.9200e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.3700e-004	3.2100e-004

tblVehicleEF	MHD	0.03	8.0490e-003
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.20	0.04
tblVehicleEF	MHD	1.3400e-003	4.7300e-004
tblVehicleEF	MHD	0.01	8.3700e-003
tblVehicleEF	MHD	5.6300e-004	9.1000e-005
tblVehicleEF	MHD	6.8500e-004	3.9200e-004
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	5.3700e-004	3.2100e-004
tblVehicleEF	MHD	0.04	9.7260e-003
tblVehicleEF	MHD	0.01	0.10
tblVehicleEF	MHD	0.22	0.05
tblVehicleEF	OBUS	0.01	8.5280e-003
tblVehicleEF	OBUS	3.5250e-003	2.3570e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.61
tblVehicleEF	OBUS	0.26	0.28
tblVehicleEF	OBUS	4.09	1.91
tblVehicleEF	OBUS	83.53	82.06
tblVehicleEF	OBUS	1,186.06	1,185.03
tblVehicleEF	OBUS	67.59	16.98
tblVehicleEF	OBUS	0.17	0.35
tblVehicleEF	OBUS	0.49	0.93
tblVehicleEF	OBUS	1.6000e-005	1.1700e-004
tblVehicleEF	OBUS	2.4660e-003	6.7870e-003
tblVehicleEF	OBUS	9.9200e-004	2.0400e-004

tblVehicleEF	OBUS	1.5000e-005	1.1200e-004
tblVehicleEF	OBUS	2.3380e-003	6.4760e-003
tblVehicleEF	OBUS	9.1200e-004	1.8800e-004
tblVehicleEF	OBUS	1.3420e-003	1.5390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.7200e-004	8.8000e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.26	0.09
tblVehicleEF	OBUS	8.0900e-004	7.8100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4800e-004	1.6800e-004
tblVehicleEF	OBUS	1.3420e-003	1.5390e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.7200e-004	8.8000e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.22
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	OBUS	0.01	8.6160e-003
tblVehicleEF	OBUS	3.5760e-003	2.4030e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.60
tblVehicleEF	OBUS	0.27	0.28
tblVehicleEF	OBUS	3.88	1.81
tblVehicleEF	OBUS	87.51	81.12

tblVehicleEF	OBUS	1,186.06	1,185.03
tblVehicleEF	OBUS	67.59	16.82
tblVehicleEF	OBUS	0.18	0.33
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	1.3000e-005	1.0400e-004
tblVehicleEF	OBUS	2.4660e-003	6.7870e-003
tblVehicleEF	OBUS	9.9200e-004	2.0400e-004
tblVehicleEF	OBUS	1.3000e-005	9.9000e-005
tblVehicleEF	OBUS	2.3380e-003	6.4760e-003
tblVehicleEF	OBUS	9.1200e-004	1.8800e-004
tblVehicleEF	OBUS	1.8490e-003	2.1090e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0450e-003	1.1820e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.21
tblVehicleEF	OBUS	0.25	0.09
tblVehicleEF	OBUS	8.4700e-004	7.7200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4400e-004	1.6600e-004
tblVehicleEF	OBUS	1.8490e-003	2.1090e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.0450e-003	1.1820e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.04	0.21
tblVehicleEF	OBUS	0.28	0.10

tblVehicleEF	OBUS	0.01	8.4290e-003
tblVehicleEF	OBUS	3.5100e-003	2.3430e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.25	0.61
tblVehicleEF	OBUS	0.26	0.28
tblVehicleEF	OBUS	4.12	1.92
tblVehicleEF	OBUS	78.04	83.35
tblVehicleEF	OBUS	1,186.06	1,185.03
tblVehicleEF	OBUS	67.59	17.01
tblVehicleEF	OBUS	0.17	0.37
tblVehicleEF	OBUS	0.48	0.91
tblVehicleEF	OBUS	1.9000e-005	1.3500e-004
tblVehicleEF	OBUS	2.4660e-003	6.7870e-003
tblVehicleEF	OBUS	9.9200e-004	2.0400e-004
tblVehicleEF	OBUS	1.8000e-005	1.2900e-004
tblVehicleEF	OBUS	2.3380e-003	6.4760e-003
tblVehicleEF	OBUS	9.1200e-004	1.8800e-004
tblVehicleEF	OBUS	1.3140e-003	1.5070e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.5300e-004	8.5900e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.05	0.24
tblVehicleEF	OBUS	0.26	0.10
tblVehicleEF	OBUS	7.5700e-004	7.9300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4800e-004	1.6800e-004

tblVehicleEF	OBUS	1.3140e-003	1.5070e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.5300e-004	8.5900e-004
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.05	0.24
tblVehicleEF	OBUS	0.29	0.10
tblVehicleEF	SBUS	0.82	0.11
tblVehicleEF	SBUS	7.3470e-003	6.0770e-003
tblVehicleEF	SBUS	0.05	0.01
tblVehicleEF	SBUS	9.27	4.37
tblVehicleEF	SBUS	0.47	0.58
tblVehicleEF	SBUS	6.97	1.31
tblVehicleEF	SBUS	1,002.67	349.87
tblVehicleEF	SBUS	1,023.12	967.34
tblVehicleEF	SBUS	64.29	8.11
tblVehicleEF	SBUS	4.20	2.49
tblVehicleEF	SBUS	1.78	2.92
tblVehicleEF	SBUS	2.1230e-003	2.0490e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	8.9650e-003	0.02
tblVehicleEF	SBUS	1.2220e-003	1.0900e-004
tblVehicleEF	SBUS	2.0320e-003	1.9600e-003
tblVehicleEF	SBUS	2.6130e-003	2.5550e-003
tblVehicleEF	SBUS	8.5570e-003	0.02
tblVehicleEF	SBUS	1.1230e-003	1.0000e-004
tblVehicleEF	SBUS	4.0010e-003	1.7010e-003

tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.10	0.51
tblVehicleEF	SBUS	2.3970e-003	1.0400e-003
tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.38	0.06
tblVehicleEF	SBUS	9.8940e-003	3.3560e-003
tblVehicleEF	SBUS	9.8750e-003	9.3000e-003
tblVehicleEF	SBUS	7.6400e-004	8.0000e-005
tblVehicleEF	SBUS	4.0010e-003	1.7010e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.60	0.74
tblVehicleEF	SBUS	2.3970e-003	1.0400e-003
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.09
tblVehicleEF	SBUS	0.42	0.06
tblVehicleEF	SBUS	0.82	0.11
tblVehicleEF	SBUS	7.4470e-003	6.1570e-003
tblVehicleEF	SBUS	0.05	9.1330e-003
tblVehicleEF	SBUS	9.22	4.35
tblVehicleEF	SBUS	0.47	0.59
tblVehicleEF	SBUS	5.76	1.08
tblVehicleEF	SBUS	1,043.40	354.02
tblVehicleEF	SBUS	1,023.12	967.36
tblVehicleEF	SBUS	64.29	7.73
tblVehicleEF	SBUS	4.34	2.51
tblVehicleEF	SBUS	1.68	2.75

tblVehicleEF	SBUS	1.7900e-003	1.7360e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	8.9650e-003	0.02
tblVehicleEF	SBUS	1.2220e-003	1.0900e-004
tblVehicleEF	SBUS	1.7130e-003	1.6610e-003
tblVehicleEF	SBUS	2.6130e-003	2.5550e-003
tblVehicleEF	SBUS	8.5570e-003	0.02
tblVehicleEF	SBUS	1.1230e-003	1.0000e-004
tblVehicleEF	SBUS	5.5110e-003	2.3370e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.10	0.51
tblVehicleEF	SBUS	3.2230e-003	1.3880e-003
tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.34	0.05
tblVehicleEF	SBUS	0.01	3.3950e-003
tblVehicleEF	SBUS	9.8750e-003	9.3000e-003
tblVehicleEF	SBUS	7.4300e-004	7.7000e-005
tblVehicleEF	SBUS	5.5110e-003	2.3370e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.60	0.74
tblVehicleEF	SBUS	3.2230e-003	1.3880e-003
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.38	0.06
tblVehicleEF	SBUS	0.82	0.11
tblVehicleEF	SBUS	7.3180e-003	6.0540e-003

tblVehicleEF	SBUS	0.05	0.01
tblVehicleEF	SBUS	9.36	4.40
tblVehicleEF	SBUS	0.47	0.58
tblVehicleEF	SBUS	7.09	1.33
tblVehicleEF	SBUS	946.42	344.14
tblVehicleEF	SBUS	1,023.12	967.34
tblVehicleEF	SBUS	64.29	8.15
tblVehicleEF	SBUS	4.02	2.45
tblVehicleEF	SBUS	1.75	2.87
tblVehicleEF	SBUS	2.5840e-003	2.4810e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	8.9650e-003	0.02
tblVehicleEF	SBUS	1.2220e-003	1.0900e-004
tblVehicleEF	SBUS	2.4720e-003	2.3740e-003
tblVehicleEF	SBUS	2.6130e-003	2.5550e-003
tblVehicleEF	SBUS	8.5570e-003	0.02
tblVehicleEF	SBUS	1.1230e-003	1.0000e-004
tblVehicleEF	SBUS	3.8270e-003	1.6050e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.10	0.51
tblVehicleEF	SBUS	2.3240e-003	1.0040e-003
tblVehicleEF	SBUS	0.07	0.07
tblVehicleEF	SBUS	0.02	0.11
tblVehicleEF	SBUS	0.39	0.06
tblVehicleEF	SBUS	9.3570e-003	3.3010e-003
tblVehicleEF	SBUS	9.8750e-003	9.3000e-003
tblVehicleEF	SBUS	7.6600e-004	8.1000e-005

tblVehicleEF	SBUS	3.8270e-003	1.6050e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.60	0.74
tblVehicleEF	SBUS	2.3240e-003	1.0040e-003
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.11
tblVehicleEF	SBUS	0.43	0.07
tblVehicleEF	UBUS	1.16	5.27
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	5.70	41.13
tblVehicleEF	UBUS	10.23	1.81
tblVehicleEF	UBUS	1,738.15	2,004.08
tblVehicleEF	UBUS	143.66	19.02
tblVehicleEF	UBUS	1.87	0.46
tblVehicleEF	UBUS	0.50	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.01	3.1570e-003
tblVehicleEF	UBUS	1.4970e-003	2.1400e-004
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.01	3.0040e-003
tblVehicleEF	UBUS	1.3760e-003	1.9600e-004
tblVehicleEF	UBUS	4.8150e-003	9.9100e-004
tblVehicleEF	UBUS	0.07	9.9200e-003
tblVehicleEF	UBUS	3.3270e-003	6.3000e-004
tblVehicleEF	UBUS	0.17	0.08
tblVehicleEF	UBUS	0.03	0.06

tblVehicleEF	UBUS	0.84	0.12
tblVehicleEF	UBUS	8.2780e-003	3.5120e-003
tblVehicleEF	UBUS	1.6220e-003	1.8800e-004
tblVehicleEF	UBUS	4.8150e-003	9.9100e-004
tblVehicleEF	UBUS	0.07	9.9200e-003
tblVehicleEF	UBUS	3.3270e-003	6.3000e-004
tblVehicleEF	UBUS	1.35	5.38
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	0.92	0.13
tblVehicleEF	UBUS	1.16	5.27
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	5.72	41.13
tblVehicleEF	UBUS	9.07	1.61
tblVehicleEF	UBUS	1,738.15	2,004.09
tblVehicleEF	UBUS	143.66	18.66
tblVehicleEF	UBUS	1.74	0.45
tblVehicleEF	UBUS	0.50	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.01	3.1570e-003
tblVehicleEF	UBUS	1.4970e-003	2.1400e-004
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.01	3.0040e-003
tblVehicleEF	UBUS	1.3760e-003	1.9600e-004
tblVehicleEF	UBUS	6.5140e-003	1.3720e-003
tblVehicleEF	UBUS	0.07	0.01
tblVehicleEF	UBUS	4.4550e-003	8.7800e-004

tblVehicleEF	UBUS	0.17	0.08
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.78	0.11
tblVehicleEF	UBUS	8.2790e-003	3.5120e-003
tblVehicleEF	UBUS	1.6020e-003	1.8500e-004
tblVehicleEF	UBUS	6.5140e-003	1.3720e-003
tblVehicleEF	UBUS	0.07	0.01
tblVehicleEF	UBUS	4.4550e-003	8.7800e-004
tblVehicleEF	UBUS	1.35	5.38
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.86	0.12
tblVehicleEF	UBUS	1.16	5.27
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	5.69	41.13
tblVehicleEF	UBUS	10.44	1.85
tblVehicleEF	UBUS	1,738.15	2,004.08
tblVehicleEF	UBUS	143.66	19.08
tblVehicleEF	UBUS	1.83	0.46
tblVehicleEF	UBUS	0.50	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.01	3.1570e-003
tblVehicleEF	UBUS	1.4970e-003	2.1400e-004
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.5850e-003
tblVehicleEF	UBUS	0.01	3.0040e-003
tblVehicleEF	UBUS	1.3760e-003	1.9600e-004
tblVehicleEF	UBUS	5.0760e-003	1.0140e-003

tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	3.3130e-003	6.1600e-004
tblVehicleEF	UBUS	0.17	0.08
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.85	0.12
tblVehicleEF	UBUS	8.2780e-003	3.5120e-003
tblVehicleEF	UBUS	1.6260e-003	1.8900e-004
tblVehicleEF	UBUS	5.0760e-003	1.0140e-003
tblVehicleEF	UBUS	0.08	0.01
tblVehicleEF	UBUS	3.3130e-003	6.1600e-004
tblVehicleEF	UBUS	1.35	5.38
tblVehicleEF	UBUS	0.03	0.07
tblVehicleEF	UBUS	0.94	0.13
tblVehicleTrips	ST_TR	22.75	5.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	ST_TR	20.87	9.10
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	16.74	5.00
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	SU_TR	26.73	13.60
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	5.00
tblVehicleTrips	WD_TR	5.81	7.32
tblVehicleTrips	WD_TR	32.93	28.82
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
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	tons/yr										MT/yr					
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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	6.3915	0.1780	7.8394	7.8900e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0348
Energy	0.0362	0.3108	0.1399	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	850.3686	850.3686	0.0457	0.0146	855.8623
Mobile	1.2810	3.4940	13.9448	0.0468	5.8369	0.0308	5.8677	1.5614	0.0288	1.5902	0.0000	4,398.0988	4,398.0988	0.2647	0.0000	4,404.7170
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	114.0444	0.0000	114.0444	6.7398	0.0000	282.5401
Water						0.0000	0.0000		0.0000	0.0000	10.1579	199.7348	209.8927	1.0591	0.0279	244.6826
Total	**7.7292**	**4.0402**	**21.9763**	**0.0568**	**5.8369**	**0.5356**	**6.3724**	**1.5614**	**0.5335**	**2.0950**	**174.2315**	**5,561.7969**	**5,736.0284**	**8.2674**	**0.0459**	**5,956.3901**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.8590	0.1438	4.8827	8.2000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	109.7300	109.7300	9.5100e-003	1.8700e-003	110.5240
Energy	0.0362	0.3108	0.1399	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	850.3686	850.3686	0.0457	0.0146	855.8623
Mobile	1.2449	3.2671	12.6603	0.0412	5.1224	0.0274	5.1497	1.3703	0.0256	1.3958	0.0000	3,873.2246	3,873.2246	0.2390	0.0000	3,879.1993
Stationary	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Waste						0.0000	0.0000		0.0000	0.0000	114.0444	0.0000	114.0444	6.7398	0.0000	282.5401
Water						0.0000	0.0000		0.0000	0.0000	10.1579	173.6872	183.8451	1.0570	0.0275	218.4569
Total	**6.1607**	**3.7790**	**17.7352**	**0.0441**	**5.1224**	**0.0895**	**5.2118**	**1.3703**	**0.0877**	**1.4579**	**124.2023**	**5,016.5303**	**5,140.7326**	**8.0924**	**0.0439**	**5,356.1359**

	ROG	NOx	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	**20.29**	**6.46**	**19.30**	**22.29**	**12.24**	**83.30**	**18.21**	**12.24**	**83.57**	**30.41**	**28.71**	**9.80**	**10.38**	**2.12**	**4.27**	**10.08**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-1,995.3004
Total	**-1,995.3004**

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	7/29/2019	7/29/2019	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	tons/yr										MT/yr					
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	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

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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	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 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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Pedestrian Network

Implement NEV Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2449	3.2671	12.6603	0.0412	5.1224	0.0274	5.1497	1.3703	0.0256	1.3958	0.0000	3,873.2246	3,873.2246	0.2390	0.0000	3,879.1993
Unmitigated	1.2810	3.4940	13.9448	0.0468	5.8369	0.0308	5.8677	1.5614	0.0288	1.5902	0.0000	4,398.0988	4,398.0988	0.2647	0.0000	4,404.7170

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	210.50	210.50	210.50	605,722	531,576
Condo/Townhouse	1,420.08	1,579.16	1218.32	4,831,794	4,240,334
Health Club	648.45	204.75	306.00	1,146,687	1,006,321
Single Family Housing	2,614.88	2,642.58	2368.35	8,828,617	7,747,906
Total	4,893.91	4,636.99	4,103.17	15,412,820	13,526,137

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777
Condo/Townhouse	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777
Health Club	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777
Single Family Housing	0.570129	0.042389	0.209362	0.103383	0.012827	0.005771	0.026890	0.019547	0.001873	0.001437	0.004989	0.000625	0.000777

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	491.7128	491.7128	0.0388	8.0300e-003	495.0752
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	491.7128	491.7128	0.0388	8.0300e-003	495.0752
NaturalGas Mitigated	0.0362	0.3108	0.1399	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	358.6558	358.6558	6.8700e-003	6.5800e-003	360.7871
NaturalGas Unmitigated	0.0362	0.3108	0.1399	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	358.6558	358.6558	6.8700e-003	6.5800e-003	360.7871

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	2.17608e+006	0.0117	0.1003	0.0427	6.4000e-004		8.1100e-003	8.1100e-003		8.1100e-003	8.1100e-003	0.0000	116.1242	116.1242	2.2300e-003	2.1300e-003	116.8142
Health Club	375525	2.0200e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	20.0394	20.0394	3.8000e-004	3.7000e-004	20.1585
Single Family Housing	4.16935e+006	0.0225	0.1921	0.0818	1.2300e-003		0.0155	0.0155		0.0155	0.0155	0.0000	222.4922	222.4922	4.2600e-003	4.0800e-003	223.8143
Total		**0.0362**	**0.3108**	**0.1399**	**1.9800e-003**		**0.0250**	**0.0250**		**0.0250**	**0.0250**	**0.0000**	**358.6558**	**358.6558**	**6.8700e-003**	**6.5800e-003**	**360.7871**

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	tons/yr										MT/yr					
City Park	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	0.0000
Condo/Townhouse	2.17608e+006	0.0117	0.1003	0.0427	6.4000e-004		8.1100e-003	8.1100e-003		8.1100e-003	8.1100e-003	0.0000	116.1242	116.1242	2.2300e-003	2.1300e-003	116.8142
Health Club	375525	2.0200e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	20.0394	20.0394	3.8000e-004	3.7000e-004	20.1585
Single Family Housing	4.16935e+006	0.0225	0.1921	0.0818	1.2300e-003		0.0155	0.0155		0.0155	0.0155	0.0000	222.4922	222.4922	4.2600e-003	4.0800e-003	223.8143
Total		**0.0362**	**0.3108**	**0.1399**	**1.9800e-003**		**0.0250**	**0.0250**		**0.0250**	**0.0250**	**0.0000**	**358.6558**	**358.6558**	**6.8700e-003**	**6.5800e-003**	**360.7871**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	843233	140.5628	0.0111	2.2900e-003	141.5240
Health Club	158850	26.4795	2.0900e-003	4.3000e-004	26.6606
Single Family Housing	1.94769e+006	324.6705	0.0256	5.3000e-003	326.8906
Total		**491.7128**	**0.0388**	**8.0200e-003**	**495.0752**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	843233	140.5628	0.0111	2.2900e-003	141.5240
Health Club	158850	26.4795	2.0900e-003	4.3000e-004	26.6606
Single Family Housing	1.94769e+006	324.6705	0.0256	5.3000e-003	326.8906
Total		**491.7128**	**0.0388**	**8.0200e-003**	**495.0752**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.8590	0.1438	4.8827	8.2000e-004		0.0341	0.0341		0.0341	0.0341	0.0000	109.7300	109.7300	9.5100e-003	1.8700e-003	110.5240
Unmitigated	6.3915	0.1780	7.8394	7.8900e-003		0.4767	0.4767		0.4767	0.4767	50.0292	104.0748	154.1039	0.1568	3.4000e-003	159.0348

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	tons/yr										MT/yr					
Architectural Coating	0.3766					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5427	0.1222	2.9941	7.6400e-003		0.4497	0.4497		0.4497	0.4497	50.0292	96.1389	146.1681	0.1492	3.4000e-003	150.9099
Landscaping	0.1450	0.0559	4.8453	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9359	7.9359	7.5600e-003	0.0000	8.1249
Total	**6.3915**	**0.1780**	**7.8394**	**7.9000e-003**		**0.4767**	**0.4767**		**0.4767**	**0.4767**	**50.0292**	**104.0748**	**154.1039**	**0.1568**	**3.4000e-003**	**159.0348**

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	tons/yr										MT/yr					
Architectural Coating	0.3766					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3272					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0103	0.0879	0.0374	5.6000e-004		7.1100e-003	7.1100e-003		7.1100e-003	7.1100e-003	0.0000	101.7941	101.7941	1.9500e-003	1.8700e-003	102.3990
Landscaping	0.1450	0.0559	4.8453	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9359	7.9359	7.5600e-003	0.0000	8.1249
Total	**4.8590**	**0.1438**	**4.8827**	**8.2000e-004**		**0.0341**	**0.0341**		**0.0341**	**0.0341**	**0.0000**	**109.7300**	**109.7300**	**9.5100e-003**	**1.8700e-003**	**110.5240**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	183.8451	1.0570	0.0275	218.4569
Unmitigated	209.8927	1.0591	0.0279	244.6826

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 50.1614	92.8980	7.3300e-003	1.5200e-003	93.5333
Condo/Townhouse	12.6399 / 7.96862	46.2032	0.4152	0.0104	59.6865
Health Club	1.33072 / 0.815603	4.8210	0.0437	1.1000e-003	6.2403
Single Family Housing	18.0477 / 11.3779	65.9705	0.5928	0.0149	85.2225
Total		**209.8927**	**1.0591**	**0.0279**	**244.6826**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 40.1291	74.3184	5.8600e-003	1.2100e-003	74.8266
Condo/Townhouse	12.6399 / 6.3749	43.2516	0.4150	0.0104	56.7148
Health Club	1.33072 / 0.652482	4.5189	0.0437	1.0900e-003	5.9361
Single Family Housing	18.0477 / 9.1023	61.7562	0.5925	0.0148	80.9794
Total		**183.8451**	**1.0570**	**0.0275**	**218.4569**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	114.0444	6.7398	0.0000	282.5401
Unmitigated	114.0444	6.7398	0.0000	282.5401

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	89.24	18.1149	1.0706	0.0000	44.8789
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Total		**114.0444**	**6.7398**	**0.0000**	**282.5401**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	3.62	0.7348	0.0434	0.0000	1.8205
Condo/Townhouse	89.24	18.1149	1.0706	0.0000	44.8789
Health Club	128.25	26.0336	1.5385	0.0000	64.4971
Single Family Housing	340.71	69.1611	4.0873	0.0000	171.3436
Total		**114.0444**	**6.7398**	**0.0000**	**282.5401**

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
Emergency Generator	1	0	50	500	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0205	0.0573	0.0523	1.0000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	9.5199	9.5199	1.3300e-003	0.0000	9.5533
Total	**0.0205**	**0.0573**	**0.0523**	**1.0000e-004**		**3.0200e-003**	**3.0200e-003**		**3.0200e-003**	**3.0200e-003**	**0.0000**	**9.5199**	**9.5199**	**1.3300e-003**	**0.0000**	**9.5533**

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-1,995.3004	0.0000	0.0000	-1,995.3004

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	67.79 / 14.25	-230.7574	0.0000	0.0000	-230.7574
Scrub	25.74 / 54.33	408.8370	0.0000	0.0000	408.8370
Trees	44.51 / 24.93	-2,173.3800	0.0000	0.0000	-2,173.3800
Total		**-1,995.3004**	**0.0000**	**0.0000**	**-1,995.3004**

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APPENDIX 3.4:

CALEEMOD EXISTING OPERATIONAL EMISSIONS MODEL OUTPUTS

Existing Westridge Golf Course

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	100.10	1000sqft	2.30	100,100.00	0
Golf Course	18.00	Hole	125.66	0.00	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

Project Characteristics -

Land Use -

Construction Phase - Operation only

Off-road Equipment -

Off-road Equipment - Operation only

Trips and VMT - Operations only

On-road Fugitive Dust - Operation only

Vehicle Trips - Trip generation based on TIA (Linscott Law & Greenspan Engineers) 2019

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products -

Area Coating -

Energy Use -

Water And Wastewater - WSA

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	200.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblVehicleTrips	ST_TR	40.63	30.39
tblVehicleTrips	SU_TR	39.53	30.39
tblVehicleTrips	WD_TR	35.74	30.39
tblWater	OutdoorWaterUseRate	149,721,308.10	89,934,860.30

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	11.1629	11.1629	4.6000e-004	1.0000e-004	11.2028
Mobile	0.1555	0.6454	1.8775	6.0500e-003	0.5052	6.9700e-003	0.5122	0.1353	6.5600e-003	0.1419	0.0000	555.6923	555.6923	0.0258	0.0000	556.3382
Waste						0.0000	0.0000		0.0000	0.0000	0.4872	0.0000	0.4872	0.0288	0.0000	1.2070
Water						0.0000	0.0000		0.0000	0.0000	0.0000	318.3590	318.3590	0.0131	2.7200e-003	319.4979
Total	**0.2550**	**0.6454**	**1.8790**	**6.0500e-003**	**0.5052**	**6.9800e-003**	**0.5122**	**0.1353**	**6.5700e-003**	**0.1419**	**0.4872**	**885.2171**	**885.7043**	**0.0682**	**2.8200e-003**	**888.2491**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	11.1629	11.1629	4.6000e-004	1.0000e-004	11.2028
Mobile	0.1555	0.6454	1.8775	6.0500e-003	0.5052	6.9700e-003	0.5122	0.1353	6.5600e-003	0.1419	0.0000	555.6923	555.6923	0.0258	0.0000	556.3382
Waste						0.0000	0.0000		0.0000	0.0000	0.4872	0.0000	0.4872	0.0288	0.0000	1.2070
Water						0.0000	0.0000		0.0000	0.0000	0.0000	318.3590	318.3590	0.0131	2.7200e-003	319.4979
Total	**0.2550**	**0.6454**	**1.8790**	**6.0500e-003**	**0.5052**	**6.9800e-003**	**0.5122**	**0.1353**	**6.5700e-003**	**0.1419**	**0.4872**	**885.2171**	**885.7043**	**0.0682**	**2.8200e-003**	**888.2491**

	ROG	NOx	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	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.3

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 - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	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**

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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**	**0.0000**

3.2 Demolition - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction 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	tons/yr										MT/yr					
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	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	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	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**	**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	tons/yr										MT/yr					
Mitigated	0.1555	0.6454	1.8775	6.0500e-003	0.5052	6.9700e-003	0.5122	0.1353	6.5600e-003	0.1419	0.0000	555.6923	555.6923	0.0258	0.0000	556.3382
Unmitigated	0.1555	0.6454	1.8775	6.0500e-003	0.5052	6.9700e-003	0.5122	0.1353	6.5600e-003	0.1419	0.0000	555.6923	555.6923	0.0258	0.0000	556.3382

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Golf Course	547.02	547.02	547.02	1,332,274	1,332,274
Parking Lot	0.00	0.00	0.00		
Total	547.02	547.02	547.02	1,332,274	1,332,274

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
Golf Course	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	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
Golf Course	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Parking Lot	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11.1629	11.1629	4.6000e-004	1.0000e-004	11.2028
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11.1629	11.1629	4.6000e-004	1.0000e-004	11.2028
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	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	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	tons/yr										MT/yr					
Golf Course	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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	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	tons/yr										MT/yr					
Golf Course	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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	35035	11.1629	4.6000e-004	1.0000e-004	11.2028
Total		**11.1629**	**4.6000e-004**	**1.0000e-004**	**11.2028**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	35035	11.1629	4.6000e-004	1.0000e-004	11.2028
Total		**11.1629**	**4.6000e-004**	**1.0000e-004**	**11.2028**

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	tons/yr										MT/yr					
Mitigated	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Unmitigated	0.0995	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0876					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Total	**0.0995**	**1.0000e-005**	**1.5200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9300e-003**	**2.9300e-003**	**1.0000e-005**	**0.0000**	**3.1300e-003**

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	tons/yr										MT/yr					
Architectural Coating	0.0118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0876					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9300e-003	2.9300e-003	1.0000e-005	0.0000	3.1300e-003
Total	**0.0995**	**1.0000e-005**	**1.5200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9300e-003**	**2.9300e-003**	**1.0000e-005**	**0.0000**	**3.1300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	318.3590	0.0131	2.7200e-003	319.4979
Unmitigated	318.3590	0.0131	2.7200e-003	319.4979

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Golf Course	0 / 89.9349	318.3590	0.0131	2.7200e-003	319.4979
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**318.3590**	**0.0131**	**2.7200e-003**	**319.4979**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Golf Course	0 / 89.9349	318.3590	0.0131	2.7200e-003	319.4979
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**318.3590**	**0.0131**	**2.7200e-003**	**319.4979**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.4872	0.0288	0.0000	1.2070
Unmitigated	0.4872	0.0288	0.0000	1.2070

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Golf Course	2.4	0.4872	0.0288	0.0000	1.2070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**0.4872**	**0.0288**	**0.0000**	**1.2070**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Golf Course	2.4	0.4872	0.0288	0.0000	1.2070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**0.4872**	**0.0288**	**0.0000**	**1.2070**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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