Appendix G

GHG Report

Meridian South Campus

GREENHOUSE GAS ANALYSIS
MARCH JOINT POWERS AUTHORITY (MARCH JPA)

PREPARED BY:

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

Alyssa Tamase
atamase@urbanxroads.com
(949)336-5988

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LIST OF ABBREVIATED TERMS

%	Percent
°C	Degrees Celsius
°F	Degrees Fahrenheit
(1)	Reference
2003 Focused EIR	*March Business Center Specific Plan and Final Focused Environmental Impact Report (SCH#2002071089)*
2016-2040 RTP/SCS	*Final 2016-2040 Regional Transportation Plan/Sustainable Communities Strategies*
2017 Scoping Plan	*Final 2017 Scoping Plan Update*
AB	Assembly Bill
AB 32	Global Warming Solutions Act of 2006
AB 1493	Pavley Fuel Efficiency Standards
AB 1881	California Water Conservation Landscaping Act of 2006
ACE	Affordable Clean Energy
Annex I	Industrialized Nations
APA	Administrative Procedure Act
AQIA	*Meridian South Campus Air Quality Impact Analysis*
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
CAL FIRE	California Department of Forestry and Fire Protection
CALGAPS	California LBNL GHG Analysis of Policies Spreadsheet
CALGreen	California Green Building Standards Code
CalSTA	California State Transportation Agency
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resource Board
CBSC	California Building Standards Commission
CEC	California Energy Commission
CCR	California Code of Regulations

CEQA	California Environmental Quality Act
CEQA Guidelines	*2019 CEQA Statute and Guidelines*
CDFA	California Department of Food and Agriculture
CF_4	Tetrafluoromethane
CFC	Chlorofluorocarbons
CFC-113	Trichlorotrifluoroethane
CH_4	Methane
CNRA	California Natural Resources Agency
CNRA 2009	*2009 California Climate Adaptation Strategy*
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
Convention	United Nation's Framework Convention on Climate Change
COP	Conference of the Parties
County	County of Riverside
CPUC	California Public Utilities Commission
CRRC	Cool Roof Rating Council
CTC	California Transportation Commission
DOF	Department of Finance
DWR	Department of Water Resources
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
EV	Electric Vehicle
g/L	Grams Per Liter
GCC	Global Climate Change
Gg	Gigagram
GHGA	Greenhouse Gas Analysis
GO-Biz	Governor's Office of Business and Economic Development
GWP	Global Warming Potential
H_2O	Water
HFC	Hydrofluorocarbons
HDT	Heavy-Duty Trucks
HFC-23	Fluoroform
HFC-134a	1,1,1,2-tetrafluoroethane
HFC-152a	1,1-difluoroethane
HHDT	Heavy-Heavy-Duty Trucks
hp	Horsepower
HVAC	Heating, Ventilation, Air Conditioning
I-215	Interstate 215

IBANK	California Infrastructure and Economic Development Bank
IPCC	Intergovernmental Panel on Climate Change
IRP	Integrated Resource Planning
ISO	Independent System Operator
kWh	Kilowatt Hours
lbs	Pounds
LBNL	Lawrence Berkeley National Laboratory
LCA	Life-Cycle Analysis
LCD	Liquid Crystal Display
LCFS	Low Carbon Fuel Standard or Executive Order S-01-07
LDA	Light-Duty Auto
LDT1/LDT2	Light-Duty Trucks
LEV III	Low-Emission Vehicle
LHDT	Light-Heavy-Duty Trucks
LULUCF	Land-Use, Land-Use Change and Forestry
March JPA	March Joint Powers Authority
MDT	Medium-Duty Trucks
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Tucks
MMR	Mandatory Reporting Rule
$MMTCO_2e$	Million Metric Ton of Carbon Dioxide Equivalent
mpg	Miles Per Gallon
MPOs	Metropolitan Planning Organizations
$MMTCO_2e/yr$	Million Metric Ton of Carbon Dioxide Equivalent Per Year
MT/yr	Metric Tons Per Year
$MTCO_2e$	Metric Ton of Carbon Dioxide Equivalent
$MTCO_2e/yr$	Metric Ton of Carbon Dioxide Equivalent Per Year
MW	Megawatts
MWh	Megawatts Per Hour
MWELO	California Department of Water Resources' Model Water Efficient
N_2O	Nitrous Oxide
NDC	Nationally Determined Contributions
NF_3	Nitrogen Trifluoride
NHTSA	National Highway Traffic Safety Administration
NIOSH	National Institute for Occupational Safety and Health
NO_X	Nitrogen Oxides
Non-Annex I	Developing Nations

OAL	Office of Administrative Law
OPR	Office of Planning and Research
PFC	Perfluorocarbons
ppb	Parts Per Billion
ppm	Parts Per Million
ppt	Parts Per Trillion
Project	Meridian South Campus
PV	Photovoltaic
RPS	Renewable Portfolio Standards
RTP	Regional Transportation Plan
SAR	Second Assessment Report
SB	Senate Bill
SB 32	California Global Warming Solutions Act of 2006
SB 375	Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies
SB 1078	Renewable Portfolio Standards
SB 1368	Statewide Retail Provider Emissions Performance Standards
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
Scoping Plan	California Air Resources Board Climate Change Scoping Plan
SCS	Sustainable Communities Strategy
SEER	Season Energy Efficiency Ratio
sf	Square Feet
SF_6	Sulfur Hexaflouride
SGC	Strategic Growth Council
SLPS	Short-Lived Climate Pollutant Strategy
SP	Service Population
Supreme Court	United States Supreme Court
SWCRB	State Water Resources Control Board
TIA	*Meridian South Campus Traffic Impact Analysis*
Title 20	Appliance Energy Efficiency Standards
Title 24	California Building Code
TSF	Thousand Square Feet
U.N.	United Nations
U.S.	United States
UNFCCC	United Nations' Framework Convention on Climate Change

URBEMIS	Urban Emissions
UTR	Utility Tractors
VFP	Vehicle Fueling Positions
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound
WCI	Western Climate Initiative
WRI	World Resources Institute
ZE/NZE	Zero and Near-Zero Emissions
ZEV	Zero-Emissions Vehicles

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Meridian South Campus Greenhouse Gas Analysis* (GHGA) is summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines* (*CEQA Guidelines*) as implemented by March JPA (1). Consistent with the *Meridian South Campus Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc., this greenhouse gas (GHG) study is intended to evaluate the net change in potential impacts associated with Phase III of the 2003 Focused Environmental Impact Report (EIR) (referred to herein as the 2003 EIR Phase III) to the currently proposed Project (2). The proposed Project involves a shift in land uses as compared to the 2003 EIR Phase III. For the purposes of this GHG study, the net change in emissions is considered the "Project". As such, this GHGA provides emissions for both the proposed Project and the 2003 EIR Phase III conditions in order to provide an appropriate comparative analysis. Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings		
		Unmitigated	Mitigation Measure	Mitigated
GHG Impact #1: Would the Project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?	6.0	*Potentially Significant*	*MM GHG-1* *MM GHG-2* *MM GHG-3* *MM GHG-4* *MM GHG-5* *MM GHG-6* *MM GHG-7* *MM GHG-8* *MM GHG-9* *MM GHG-10* *MM GHG-11* *MM GHG-12* *MM GHG-13* *MM GHG-14*	*Less Than Significant*
GHG Impact #2: Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?	6.0	*Potentially Significant*	*MM GHG-3* *MM GHG-4* *MM GHG-7* *MM GHG-8*	*Less Than Significant*

ES.2 STANDARD REGULATORY REQUIREMENTS

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

- Global Warming Solutions Act of 2006 (Assembly Bill (AB) 32) (3).
- Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies (Senate Bill (SB) 375) (4).
- Pavley Fuel Efficiency Standards (AB 1493). Establishes fuel efficiency ratings for new vehicles (5).
- California Building Code (Title 24 California Code of Regulations (CCR)). Establishes energy efficiency requirements for new construction (6).
- Appliance Energy Efficiency Standards (Title 20 CCR). Establishes energy efficiency requirements for appliances (7).
- Low Carbon Fuel Standard (LCFS). Requires carbon content of fuel sold in California to be 10 percent (%) less by 2020 (8).
- Low Carbon Fuel Standard (LCFS) 2030 Update. Requires carbon content of fuel sold in California to be 20 percent (5) less by 2030 (9)
- California Water Conservation in Landscaping Act of 2006 (AB 1881). 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 (10).
- Statewide Retail Provider Emissions Performance Standards (SB 1368). Requires energy generators to achieve performance standards for GHG emissions (11).
- Renewable Portfolio Standards (SB 1078 – also referred to as RPS). Requires electric corporations to increase the amount of energy obtained from eligible renewable energy resources to 20% by 2010 and 33% by 2020 (12). This was amended by SB 350 which mandated 50% by 2030. This was further modified by SB 100 which set a target of 60% by 2030 and 100% by 2045.
- California Global Warming Solutions Act of 2006 (SB 32). Requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15 (13).

Promulgated regulations that will affect the Project's emissions are accounted for in the Project's GHG calculations provided in this report. In particular, AB 1493, LCFS, and RPS, and therefore are accounted for in the Project's emission calculations.

ES.3 PROJECT MITIGATION MEASURES (MM)

The following measures are designed to reduce Project operational-source GHG emissions. However, it should be noted that for many of these measures, there is no way to quantify these reductions in the California Emissions Estimator Model (CalEEMod). As such, reductions for some of these measures are not included in this report. Notwithstanding, compliance with the

mitigation measures below also serve to meet compliance with the Riverside County Climate Action Plan (CAP).

MM GHG-1

The Project will install approximately 12-megawatt (MW) of solar photovoltaic (PV) electricity generation.

MM GHG-2

The Project will install Energy Star certified light bulb and light fixtures.

MM GHG-3

The Project will install duct insulation to a minimum level of and modestly enhanced window insulation consistent with the Riverside County Climate Action Plan (CAP) criteria.

MM GHG-4

Consistent with the CAP criteria, the Project will include the following design elements: Construction of modest cool roof, defined as Cool Roof Rating Council (CRRC) Rated 0.15 aged solar reflectance and 0.75 thermal emittance; Use of heating, ventilation, and air conditioning (HVAC) equipment with a season energy efficiency ratio (SEER) of 14 or higher; Installation of water heaters with an energy factor of .92 or higher; All rooms will have some form of daylighting (e.g., skylights or windows); At least 50% of artificial lighting unit fixtures will be high efficacy; Waterless urinals and high efficiency toilets will be used throughout the Project; and water efficient faucets will be used throughout the Project.

MM GHG-5

The Project will provide electrical outlets at building exterior areas.

MM GHG-6

The Project landscape non-potable water system will meet “purple” pipe standards.

MM GHG-7

The Project will exceed the CAP requirement for water efficient landscaping by having no turf and only drought tolerant plants and introducing additional water efficient irrigation controls such as smart irrigation controllers.

MM GHG-8

The Project will provide circuitry and capacity for installation of EV charging stations consistent with the County’s CAP. Per information provided by the Project Applicant, the Project will develop 20 charging stations.

MM GHG-9

Five percent (5%) of vehicle/employee parking spaces shall be reserved for preferential spaces for carpools and van pools.

MM GHG-10

Tenants with more than 10,000 square feet (sf) of office space shall provide video conferencing facilities. Tenant spaces below 10,000 sf may pursue video conferencing as feasible.

MM GHG-11

The Project will provide short- and long- term bicycle parking facilities to meet peak season maximum demand (one bike rack space per 20 vehicle/employee parking spaces).

MM GHG-12

The Project will provide "end-of-trip" facilities including showers, lockers, and changing space (four clothes lockers and one shower provided for every 80-employee parking spaces, separate facilities for each gender for projects with 160 or more employee parking spaces).

MM GHG-13

Each tenant will provide on-site food vending machines or refrigerator, microwave oven, and mail facilities (i.e., drop box) at the Project site. Each tenant with over 5,000 sf of office space shall provide an on-site computer, internet connection, and other services for personal employee use. Projects will also consider the provision of an ATM machine as feasible.

MM GHG-14

For any warehouse use, the loading docks shall be designed to accommodate SmartWay trucks. The March JPA will require evidence of compliance prior to issuance of a certificate of occupancy for any warehouse use.

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1 INTRODUCTION

This report presents the results of the GHGA prepared by Urban Crossroads, Inc., for the proposed Meridian South Campus and Village West Drive Extension (Project). The purpose of this GHGA is to evaluate Project-related construction and operational emissions and determine the level of GHG impacts as a result of constructing and operating the Project.

1.1 SITE LOCATION

The proposed Meridian South Campus site is located on the south side of Van Buren Boulevard between Barton Street and Village West Drive, within the jurisdiction of the March JPA. The Project site is partially developed and located within the southwestern portion of the March JPA jurisdiction. More specifically, the Project site is located in the southern portion of the Meridian South Campus Specific Plan area, south of Van Buren Boulevard, west of Village West Drive, and east of Barton Street, in unincorporated Riverside County, California. Interstate 215 (I-215) is located approximately 1 mile east of the Project site.

1.2 PROJECT DESCRIPTION

The *March Business Center Specific Plan and Final Focused Environmental Impact Report (SCH#2002071089)*, which guides land use decisions within a 1,290-acre portion of the planning area, was adopted and certified in 2003. Within the March Business Center Specific Plan, two separate "campuses" were identified, along with the potential for a possible third campus. The two identified campuses include the North Campus and South Campus. The South Campus components of the March Business Center Specific Plan have been analyzed under both California Environmental Quality Act (CEQA) and National Environmental Protection Agency (NEPA) in the following documents:

- Final Environmental Impact Statement: Disposal of Portions of March Air Force Base (February 1996)
- Final Environmental Impact Report for the March Air Force Base Redevelopment Project (June 1996)
- Redevelopment Plan for the March Air Force Base Redevelopment Project (June 1996)
- March JPA Development Code (July 1997)
- General Plan of the March JPA (September 1999)
- Master Environmental Impact Report for the General Plan of the March JPA (September 1999)
- March Business Center Specific Plan (February 2003)
- March JPA General Plan Amendment (February 2003)
- March Business Center Focused Environmental Impact Report (February 2003)
- March Business Center Design Guidelines (November 2003)
- Addenda to the certified 2003 EIR, including:
    - Meridian South Campus Specific Plan Amendment – Parcel Delivery Terminal Project (September 2017)

- Meridian South Campus Specific Plan Amendment – Land Swap Addendum (September 2018)

PROPOSED PROJECT

The square footage calculated based on maximum allowable floor area ratio (FAR) for each land use type is shown below:

- Office – 388.011 thousand square feet (TSF)
- Commercial – 221.394 TSF
- Grocery Store – 61.336 TSF
- Business Park – 1,764.180 TSF
- High Cube Warehouse – 800.000 TSF
- High Cube Cold Storage Warehouse – 700.000 TSF
- Warehousing – 274.437 TSF
- Dog Park – 6.2 Acres

At the time this study was prepared, the Grocery Store component was assumed to consist of 61,336 sf. However, the current site plan for the Grocery Store component reflects a 44,200 sf grocery store with 17,136 sf of shops/general commercial retail space (total of 61,336 sf of commercial retail use). For the purposes of this study, the 61,336 sf of Grocery Store use results in a higher trip generation and consequently higher emissions (therefore more conservative) as opposed to evaluating the 44,200 sf Grocery Store and 17,136 sf of commercial retail space. The higher emissions have been evaluated for the purposes of this study in order to account for any minor changes that may occur to the building area as part of the final design.

VILLAGE WEST DRIVE EXTENSION

The improved portions of Village West Drive currently terminate at Lemay Drive to the south. The proposed Project would include improvements to and the extension of Village West Drive to provide a through connection between Van Buren Boulevard to the north and Nandina Avenue to the south. The improved Village West Drive would require the removal of an abandoned water tank currently owned by Western Municipal Water District that formerly served March Air Force Base, followed by the construction of two through lanes, a center striped median, and a bike lane. Sidewalks would also be provided on either side of the roadway.

BUILT/ENTITLED LAND USES

The following uses that are built or entitled, but not yet occupied and operational will also be included as part of the proposed Project scenarios:

- Amazon (Building A) – 1,000.000 TSF
- Parcel Delivery (Building B) – 1,000.000 TSF
- Parking Lot – 61.0 Acres
- Building C (Warehousing) – 500.000 TSF

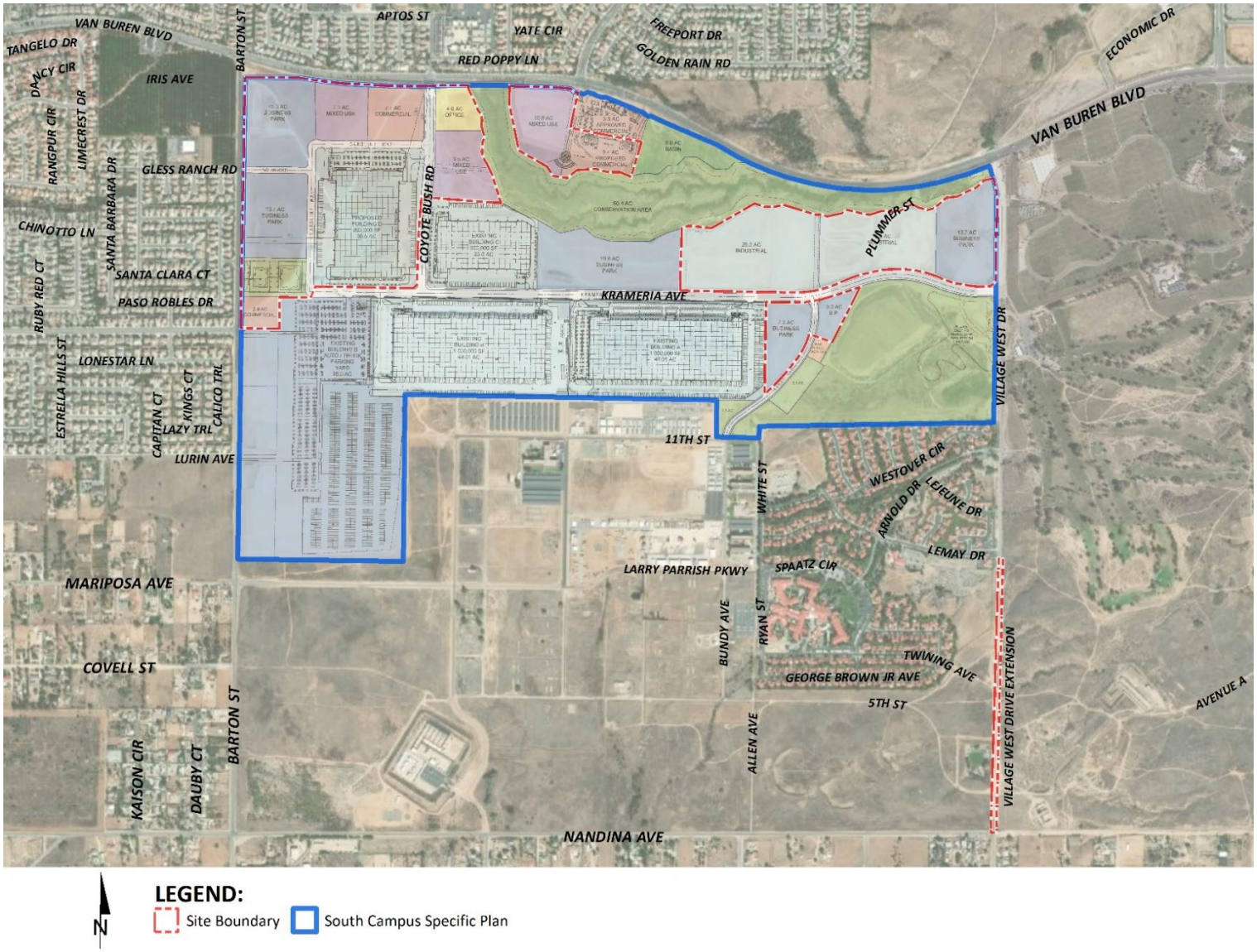
- Commercial (Parcel 72) – 15.485 TSF[1]

Exhibit 1-A shows the Project site plan with the proposed uses. At the time this GHG study was prepared, the tenants of the Project were unknown. This GHG study is intended to describe emission impacts associated with the expected typical 24-hour, seven days per week operational activities at the Project site.

As previously stated, this GHGA is intended to evaluate the net change in potential impacts associated with Phase III of the 2003 Focused EIR (referred to herein as the 2003 EIR Phase III) to the currently proposed Project (2). The proposed Project involves a shift in land uses as compared to the 2003 EIR Phase III. For the purposes of this air study, the net change in emissions is considered the "Project". As such, this AQIA provides emissions for both the proposed Project and the 2003 EIR Phase III conditions in order to provide an appropriate comparative analysis.

1 At the time this study was prepared, the commercial square footage of Parcel 72 was assumed to consist of 15,485 sf. However, the actual square footage for Parcel 72 is 14,267 sf. For the purposes of this study, the 15,485 sf of commercial use results in a higher trip generation and consequently higher emissions (therefore more conservative) as opposed to evaluating the 14,267 sf of commercial use.

EXHIBIT 1-A: PRELIMINARY SITE PLAN



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2 CLIMATE CHANGE SETTING

2.1 INTRODUCTION TO GLOBAL CLIMATE CHANGE (GCC)

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 (CO_2), methane (CH_4), nitrous oxide (N_2O), 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 significant 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, N_2O, CH_4, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). 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 activity. Without the natural GHG effect, the earth's average temperature would be approximately 61 degrees Fahrenheit (°F) 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 GHGS

2.3.1 GHGS 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 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: GHGS

GHGs	Description	Sources	Health Effects
Water	Water 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 feedback loop will continue is unknown as there are also	The main source of water vapor is evaporation from the oceans (approximately 85%). 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.

GHGs	Description	Sources	Health Effects
	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) (14).		
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%. Left unchecked, the concentration of CO_2 in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources (15).	CO_2 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. CO_2 is naturally removed from the air by photosynthesis, dissolution into ocean water, transfer to soils and ice caps, and chemical weathering of carbonate rocks (16).	Outdoor levels of CO_2 are not high enough to result in negative health effects. According to the National Institute for Occupational Safety and Health (NIOSH) high concentrations of CO_2 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 CO_2 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 ppm averaged over a 15 minute period (17).

GHGs	Description	Sources	Health Effects
CH_4	CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than CO_2 and its lifetime in the atmosphere is brief (10-12 years), compared to other GHGs.	CH_4 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 CH_4. Other anthropocentric sources include fossil-fuel combustion and biomass burning (18).	CH_4 is extremely reactive with oxidizers, halogens, and other halogen-containing compounds. Exposure to high levels of CH_4 can cause asphyxiation, loss of consciousness, headache and dizziness, nausea and vomiting, weakness, loss of coordination, and an increased breathing rate.
N_2O	N_2O, also known as laughing gas, is a colorless GHG. Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration was 314 parts per billion (ppb).	N_2O 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) 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	N_2O 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) (19).

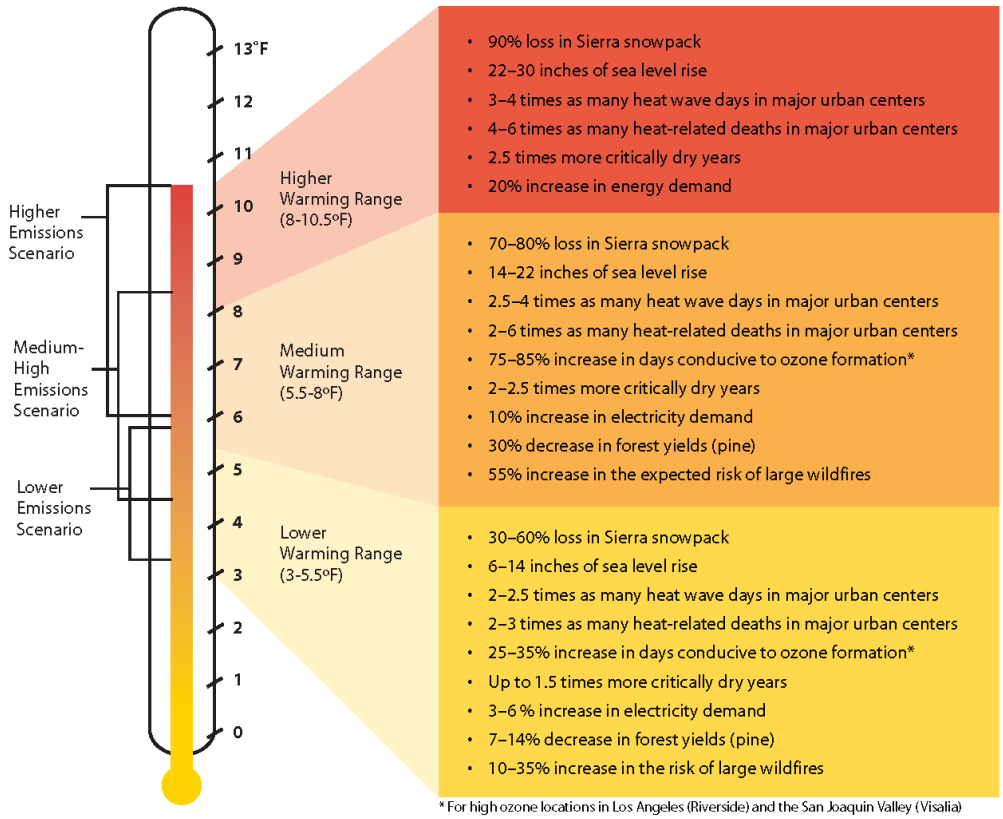
GHGs	Description	Sources	Health Effects
		bags to keep chips fresh. It is used in rocket engines and in race cars. N_2O can be transported into the stratosphere, be deposited on the earth's surface, and be converted to other compounds by chemical reaction (19).	
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in CH_4 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 (20).	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.

GHGs	Description	Sources	Health Effects
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), Fluoroform (HFC-23), 1,1,1,2-tetrafluoroethane (HFC-134a), and 1,1-difluoroethane (HFC-152a). Prior to 1990, the only significant emissions were of HFC-23. HCF-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.
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.
SF_6	SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP of any gas evaluated (23,900) (21). The EPA indicates that concentrations in the 1990s were about 4 ppt.	SF_6 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.
Nitrogen Trifluoride (NF_3)	NF_3 is a colorless gas with a distinctly moldy odor. The World Resources Institute (WRI)	NF_3 is used in industrial processes and is produced in the manufacturing of	Long-term or repeated exposure may affect the liver

GHGs	Description	Sources	Health Effects
	indicates that NF_3 has a 100-year GWP of 17,200 (22).	semiconductors, Liquid Crystal Display (LCD) panels, types of solar panels, and chemical lasers.	and kidneys and may cause fluorosis (23).

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 (24). Exhibit 2-A presents the potential impacts of global warming (25).

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. CO_2 is utilized as the reference gas for GWP, and thus has a GWP of 1. CO_2 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 (SAR), the Intergovernmental Panel on Climate Change (IPCC)'s scientific and socio-economic assessment on climate change, range from 1 for CO_2 to 23,900 for SF_6 and GWP for the IPCC's 5th Assessment Report range from 1 for CO_2 to 23,500 for SF_6 (26).

TABLE 2-2: GWP AND ATMOSPHERIC LIFETIME OF SELECT GHGS

Gas	Atmospheric Lifetime (years)	GWP (100-year time horizon)	
		2nd SAR	5th SAR
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 GHG EMISSIONS INVENTORIES

2.5.1 GLOBAL

Worldwide anthropogenic 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 gigagram (Gg) CO_2e[2] (27) (28) 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 United Nations' Framework Convention on Climate Change (UNFCCC) data for the most recent year were used U.N. Framework Convention on Climate Change, "Annex I Parties – GHG total without LULUCF," The most recent GHG emissions for China and India are from 2014.

2.5.2 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**

2.5.3 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 United States (U.S.) emissions inventory total (29). The California Air Resource Board (CARB) compiles GHG inventories for the State of California. Based upon the 2019 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2017 GHG emissions period, California emitted an average 424.1 million metric tons of CO_2e per year ($MMTCO_2e$/yr) (30).

2.6 EFFECTS OF CLIMATE CHANGE IN CALIFORNIA

2.6.1 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% under the lower warming range to 75 to 85% 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% more frequent if GHG emissions are not significantly reduced.

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

[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.

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.

2.6.2 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 the 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%. 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. Winter tourism could be adversely affected, 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.

2.6.3 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% 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.

2.6.4 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%, 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% 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% 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.

2.6.5 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.

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3 REGULATORY SETTING

3.1 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.

IPCC

In 1988, the United Nations (U.N.) 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 5% 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 degrees Celsius (°C) 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 U.N. 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°C, 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) (31).

On November 4, 2019, the Trump administration formally notified the U.N. that the U.S. would withdraw from the Paris Agreement. It should be noted that withdrawal would be effective one year after notification in 2020.

3.2 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* (EPA) 549 U.S. 497 (2007), decided on April 2, 2007, the U.S. Supreme Court (Supreme Court) found that four GHGs, including CO_2, are air pollutants subject to regulation under Section 202(a)(1) of the Federal Clean Air Act (CAA). The Supreme 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— CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6—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 Supreme Court declined to review an Appeals Court ruling that upheld the EPA Administrator's findings (32).

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 (MY) 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO_2 per mile, equivalent to 35.5 miles per gallon (mpg) if the automobile industry were to meet this CO_2 level solely through fuel economy improvements. Together, these standards would cut CO_2 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 (MY 2012–2016). The EPA and the NHTSA issued final rules on a second-phase joint rulemaking establishing national standards for light-duty vehicles for MY 2017 through 2025 in August 2012. The new standards for MY 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 CO_2 in MY 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 trucks (HDT) 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 MY and achieve up to a 20% reduction in CO_2 emissions and fuel consumption by the 2018 MY. For HDT and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 MY and achieve up to a 10% reduction for gasoline vehicles and a 15% reduction for diesel vehicles by the 2018 MY (12 and 17% respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10% reduction in fuel consumption and CO_2 emissions from the 2014 to 2018 MY.

On April 2, 2018, the EPA signed the Mid-term Evaluation Final Determination, which finds that the MY 2022-2025 GHG standards are not appropriate and should be revised (33). This Final Determination serves to initiate a notice to further consider appropriate standards for MY 2022-2025 light-duty vehicles. On August 24, 2018, the EPA and NHTSA published a proposal to freeze the MY 2020 standards through MY 2026 and to revoke California's waiver under the CAA to establish more stringent standards (34). As of March 31, 2020, the NHTSA and EPA finalized the SAFE Vehicle Rule which increased stringency of CAFE and CO2 emissions standards by 1.5% each year through model year 2026. (35)

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 per year (MT/yr) or more 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 CAA, 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% 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 CO_2 for new, affected, fossil fuel-fired electric utility generating units on March 27, 2012. New sources greater than 25 megawatts (MW) would be required to meet an output-based standard of 1,000 pounds (lbs) of CO_2 per MW-hour (MWh), based on the performance of widely used natural gas combined cycle technology. It should be noted that on February 9, 2016 the 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. The Clean Power Plan was officially repealed on June 19, 2019, when the EPA issued the final Affordable Clean Energy rule (ACE). Under ACE, new state emission guidelines were established that provided existing coal-fired electric utility generating units with achievable 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 N_2O 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 CO_2 emissions from power plants, auctions CO_2 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 and in 2020 has retained all participating states.

The Western Climate Initiative (WCI) partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15% 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. While the WCI has yet to publish whether it has successfully reached the 2020 emissions goal initiative set in 2007, SB 32, requires that California, a major partner in the WCI, adopt the goal of reducing statewide GHG emissions to 40% below the 1990 level by 2030.

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 (36):

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 HDTs will have to comply with CARB's Tractor-Trailer 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% 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.

3.3 MULTISTATE

WESTERN REGIONAL CLIMATE ACTION INITIATIVE (WCI)

The WCI is a partnership among seven different US states and four Canadian provinces aimed at developing a regional cap-and-trade economy to reduce GHG emissions. The following comes from the WC's website (37):

> *The WCI was built on existing greenhouse gas reduction efforts in the individual states as well as two existing regional efforts. In 2003, California, Oregon and Washington created the West Coast Global Warming Initiative, and in 2006, Arizona and New Mexico launched the Southwest Climate Change Initiative.*
>
> *During 2007 and 2008, the Premiers of British Columbia, Manitoba, Ontario, and Quebec, and the Governors of Montana and Utah joined the original five states in committing to tackle climate change at a regional level. All 11 jurisdictions collaborated in the development of the Design for the WCI Regional Program, which was released in July 2010.*
>
> *In November 2011, the Western Climate Initiative formed Western Climate Initiative, Inc. (WCI, Inc.), a non-profit corporation that will provide administrative and technical services to support the implementation of state and provincial greenhouse gas emissions trading programs.*
>
> *British Columbia, California, Ontario, Quebec and Manitoba are continuing to work together through the Western Climate Initiative to develop and harmonize their emissions trading program policies. They are also continuing to work with Western, Midwestern, and Northeast states on a range of other climate and clean energy strategies through the North America 2050 Initiative. North America 2050 is a forum for states, provinces and stakeholders to identify leadership opportunities in climate and clean energy policy.* (38)

PACIFIC COAST ACTION PLAN ON CLIMATE AND ENERGY

The governors of California, Oregon, Washington and the Premier of British Columbia have joined together to produce the Pacific Coast Action Plan signed on October 28, 2013 to reduce GHG emissions among other goals. The plan organizes their pacific coast economies around several initiatives including (39):

- Leading national and international policy on climate change
  - Accounting for a price on carbon.
  - Harmonizing 2050 targets for GHG emission reductions and developing midterm targets need for long-term reduction goals.
  - Affirming the need to inform policy with climate science findings.
- Transition the West Coast to clean modes of transportation including 100% zero emissions vehicles by 2050
  - Continuing deployment of high-speed rail.

  - Supporting emerging markets and innovation for alternative fuels in trucks, buses, rail, and ports.
- Invest in clean energy and climate-resilient infrastructure including transforming the energy efficiency market and lead the way to net-zero buildings.

3.4 CALIFORNIA

LEGISLATIVE ACTIONS TO REDUCE GHGS

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation such as the landmark AB 32 was specifically enacted to address GHG emissions. Other legislation such as Title 24 and Title 20 energy standards were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the major provisions of the legislation.

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% below 1990 levels.

The 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.

AB 32

The California State Legislature enacted AB 32, which required that GHGs emitted in California be reduced to 1990 levels by the year 2020 (this goal has been met[4]). GHGs as defined under AB 32 include CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6. Since AB 32 was enacted, a seventh chemical, NF_3, has also been added to the list of GHGs. CARB is the state agency charged with monitoring and regulating sources of GHGs. Pursuant to AB 32, CARB adopted regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. 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*

[4] Based upon the 2019 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2017 GHG emissions period, California emitted an average 424.1 $MMTCO_2e$ **Invalid source specified.**. This is less than the 2020 emissions target of 431 $MMTCO_2e$.

an increase in the incidences of infectious diseases, asthma, and other human health-related problems."

SB 375

Passing the Senate on August 30, 2008, SB 375 was signed by Governor Schwarzenegger on September 30, 2008. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40% 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 (MPOs) 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.

SB 375 also requires MPOs to prepare a Sustainable Communities Strategy (SCS) within the Regional Transportation Plan (RTP) that guides growth while taking into account the transportation, housing, environmental, and economic needs of the region. SB 375 uses CEQA streamlining as an incentive to encourage residential projects, which help achieve AB 32 goals to reduce GHG emissions. Although SB 375 does not prevent CARB from adopting additional regulations, such actions are not anticipated in the foreseeable future.

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 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 MMs required by an applicable prior environmental document.

AB 1493

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 MY. When fully phased in, the near-term (2009–2012) standards will result in about a 22% reduction compared with the 2002 fleet, and the mid-term (2013–2016) standards will result in about a 30% reduction. 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 (LEV III) or the Advanced Clean Cars (ACC) program. The ACC program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for MY 2017 through 2025. The regulation will reduce GHGs from new cars by 34% from 2016 levels by 2025. The new rules will clean up 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 (EV) 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.

CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (SB 350)

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 EV charging stations. Provisions for a 50% 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% to 50% by 2030, with interim targets of 40% by 2024, and 25% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utilities Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.
- Reorganize the Independent System Operator (ISO) 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.

SB 32

On September 8, 2016, Governor Jerry Brown signed SB 32 and its companion bill, AB 197. SB 32 requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80% below 1990 levels by 2050. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (13).

CARB SCOPING PLAN UPDATE

In compliance with AB 32 and the 2008 Scoping Plan, the target year 2020 has been fulfilled and will look onward to the 2017 Scoping Plan that should be in compliance by 2030.

In November 2017, CARB released the *Final 2017 Scoping Plan Update* (*2017 Scoping Plan*), which identifies the State's post-2020 reduction strategy. The *2017 Scoping Plan* reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by 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 CH_4 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% decrease in 1990 levels by 2030 (40).

California's climate strategy will require contributions from all sectors of the economy, including the land base, 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; greater use of low carbon fuels; integrated land conservation and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (CH_4, black carbon, and fluorinated gases); and an increased focus on integrated land use planning to support livable, transit-connected communities and conservation of agricultural and other lands. 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. Major elements of the *2017 Scoping Plan* framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing zero-emission vehicles (ZEV) buses and trucks.
- LCFS, with an increased stringency (18% by 2030).
- Implementing SB 350, which expands the RPS to 50% 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 ZEV trucks.
- Implementing the proposed Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing CH_4 and HCF emissions by 40% and anthropogenic black carbon emissions by 50% by year 2030.
- Continued implementation of SB 375.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- 20% 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.

Note, however, 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."*

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 CEQA projects, CARB states that lead agencies may develop evidenced-based bright-line numeric thresholds—consistent with the *2017 Scoping Plan* and the State's long-term GHG goals—and projects with emissions over that amount may be required to incorporate on-site design features and MMs that avoid or minimize project emissions to the degree feasible; or, a performance-based metric using a CAP or other plan to reduce GHG emissions is appropriate.

According to research conducted by the Lawrence Berkeley National Laboratory (LBNL) and supported by CARB, California, under its existing and proposed GHG reduction policies, 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 by 2030, emissions could range from 211 to 428 $MTCO_2e$ per year ($MTCO_2e$/yr), indicating that "even if all modeled policies are not implemented, reductions could be sufficient to reduce emissions 40% 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% reduction goal by 2050, various combinations of policies could allow California's cumulative emissions to remain very low through 2050 (41) (42).

CAP-AND-TRADE PROGRAM

The *2017 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 achieving a 40% reduction in GHG emissions from 1990 levels by 2030. 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. The Cap-and-Trade Program is designed to reduce GHG emissions from regulated entities by more than 16% between 2013 and 2020, and by an additional 40% by 2030. 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 $MTCO_2e$/yr must comply with the Cap-and-Trade Program. Triggering of the 25.000 $MTCO_2e$/yr "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" for each

$MTCO_2e$ of GHG they emit. There also are requirements to surrender compliance instruments covering 30% of the prior year's compliance obligation by November of each year (43).

The Cap-and-Trade Program provides a firm cap, which provides the highest certainty of achieving the 2030 target. 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 Update to the Climate Change Scoping Plan*:

> *"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."* (44)

The Cap-and-Trade Program covered approximately 80% of California's GHG emissions (40). 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. The Cap-and-Trade Program covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported.

3.4.1 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 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% 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 U.N. Climate Change Conference in Paris late 2015. The Order sets a new interim statewide GHG emission reduction target to reduce GHG emissions to 40% below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80% below 1990 levels by 2050 and directs CARB to update the *2017 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.

EXECUTIVE ORDER S-01-07 (LCFS)

Governor Schwarzenegger 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% by 2020. 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.

In 2018, CARB approved amendments to the regulation, which included strengthening the carbon intensity benchmarks through 2030 in compliance with the SB 32 GHG emissions reduction target for 2030. The amendments included crediting opportunities to promote zero emission vehicle

adoption, alternative jet fuel, carbon capture and sequestration, and advanced technologies to achieve deep decarbonization in the transportation sector (45).

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% of retail sales are required to be from renewable sources by December 31, 2016, 33% by December 31, 2020, 40% by December 31, 2024, 45% by December 31, 2027, and 50% by December 31, 2030. SB 100 raises California's RPS requirement to 50% renewable resources target by December 31, 2026, and to achieve a 60% 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 (kWh) of those products sold to their retail end-use customers achieve 44% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% 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 EPA (CalEPA), the California 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.

3.4.2 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 CCR

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 (RV) or other mobile equipment (CEC 2012).

TITLE 24 CCR

CCR Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2009, and is administered by the California Building Standards Commission (CBSC).

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2019 California Green Building Code Standards that became 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 waste and demolition ordinances and defers to them as the ruling guidance provided they establish a minimum 65% diversion requirement.

The code also provides exemptions for areas not served by construction waste and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official.

Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020.

The 2019 Title 24 standards will result in less energy use, thereby reducing air pollutant emissions associated with energy consumption in the SCAB and across the State of California. For example, the 2019 Title 24 standards will require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, and update indoor and outdoor lighting requirements for nonresidential buildings.

The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7% less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will use about 53% less energy than homes built under the 2016 standards. Nonresidential buildings (such as the Project) will use approximately 30% less energy due to lighting upgrade requirements (19).

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

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% 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% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. 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).

- Electric vehicle (EV) charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3).
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8)
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% 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% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
  - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
  - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
  - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
  - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not 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 potable 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 Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).

- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

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 lbs 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.

TRACTOR-TRAILER GHG REGULATION

The tractors and trailers subject to this regulation must either use EPA SmartWay certified tractors and trailers or retrofit their existing fleet with SmartWay verified technologies. The regulation applies primarily to owners of 53-foot or longer box-type trailers, including both dry-van and refrigerated-van trailers, and owners of the HD tractors that pull them on California highways. These owners are responsible for replacing or retrofitting their affected vehicles with compliant aerodynamic technologies and low rolling resistance tires. Sleeper cab tractors MY 2011 and later must be SmartWay certified. All other tractors must use SmartWay verified low rolling resistance tires. There are also requirements for trailers to have low rolling resistance tires and aerodynamic devices.

PHASE I AND 2 HEAVY-DUTY VEHICLE GHG STANDARDS

CARB has adopted a new regulation for GHG emissions from HDTs and engines sold in California. It establishes GHG emission limits on truck and engine manufacturers and harmonizes with the EPA rule for new trucks and engines nationally. Existing HD vehicle regulations in California include engine criteria emission standards, tractor-trailer GHG requirements to implement SmartWay strategies (i.e., the Heavy-Duty Tractor-Trailer GHG Regulation), and in-use fleet retrofit requirements such as the Truck and Bus Regulation. In September 2011, the EPA adopted its new rule for HDTs and engines. The EPA rule has compliance requirements for new compression and spark ignition engines, as well as trucks from Class 2b through Class 8.

Compliance requirements began with MY 2014 with stringency levels increasing through MY 2018. The rule organizes truck compliance into three groupings, which include a) HD pickups and vans; b) vocational vehicles; and c) combination tractors. The EPA rule does not regulate trailers.

CARB staff has worked jointly with the EPA and the NHTSA on the next phase of federal GHG emission standards for medium-duty trucks (MDT) and HDT vehicles, called federal Phase 2. The federal Phase 2 standards were built on the improvements in engine and vehicle efficiency required by the Phase 1 emission standards and represent a significant opportunity to achieve further GHG reductions for 2018 and later MY HDT vehicles, including trailers. But as discussed above, the EPA and NHTSA have proposed to roll back GHG and fuel economy standards for cars and light-duty trucks, which suggests a similar rollback of Phase 2 standards for MDT and HDT vehicles may be pursued.

SB 97 AND THE CEQA GUIDELINES UPDATE

Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. The code states "(a) On or before July 1, 2009, the Office of Planning and Research (OPR) 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. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the OPR pursuant to subdivision (a)." Section 21097 was also added to the Public Resources Code. It provided CEQA protection until January 1, 2010 for transportation projects funded by the Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006 or projects funded by the Disaster Preparedness and Flood Prevention Bond Act of 2006, in stating that the failure to analyze adequately the effects of GHGs would not violate CEQA. Public Resources Code Section 21097 was repealed by its own terms, operative January 1, 2010.

In 2012, Public Resources Code Section 21083.05 was amended to state:

> *"The Office of Planning and Research and the Natural Resources Agency shall periodically update the guidelines for the mitigation of greenhouse gas emissions or the effects of greenhouse gas emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption, to incorporate new information or criteria established by the State Air Resources Board pursuant to Division 25.5 (commencing with Section 38500) of the Health and Safety Code."*

On December 28, 2018, the Natural Resources Agency announced the OAL approved the amendments to the *CEQA Guidelines* for implementing CEQA. The CEQA Amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The CEQA Amendments fit within the existing CEQA framework by amending existing *CEQA Guidelines* to reference climate change.

Section 15064.4 was added the *CEQA Guidelines* and states that in determining the significance of a project's GHG 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. Additionally, a lead agency may use a model or methodology to estimate GHG 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 (46).

3.5 REGIONAL

The project is within the South Coast Air Basin (SCAB), which is under the jurisdiction of the SCAQMD.

SCAQMD

SCAQMD is the agency responsible for air quality planning and regulation in the SCAB. The SCAQMD addresses the impacts to climate change of projects subject to SCAQMD permit as a lead agency if they are the only agency having discretionary approval for the project and acts as a responsible agency when a land use agency must also approve discretionary permits for the project. SCAQMD acts as an expert commenting agency for impacts to air quality.

In 2008, SCAQMD formed a Working Group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the SCAB. The Working Group identified several different options that are contained in the SCAQMD Draft Guidance Document – *Interim CEQA GHG Significance Threshold*, however no thresholds for CEQA land use development projects were adopted. The Working Group has not convened a meeting since November 2009 nor has the Working Group provided additional guidance since release of the interim guidance in 2008.

3.6 LOCAL

COUNTY OF RIVERSIDE CLIMATE ACTION PLAN

The County of Riverside adopted the Updated CAP on December 17, 2019. The CAP was designed under the premise that the County of Riverside, and the community it represents, is uniquely capable of addressing emissions associated with sources under Riverside County's jurisdiction, and that Riverside County's emission reduction efforts should coordinate with the state strategies of reducing emissions in order to accomplish these reductions in an efficient and cost-effective manner. The County of Riverside plans to reduce community-wide emissions to 3,576,598 MTCO2e per year by 2030.

The Project site is located in the jurisdiction of the March JPA within the County of Riverside. Although the County of Riverside does not have direct authority over the Project, consistency with the County's CAP provides an additional metric to determine if the Project's impacts are

significant. This information is presented for informational purposes to illustrate how the Project has been designed to reduce GHG emissions.

In order to evaluate consistency with the CAP, the County of Riverside provided Screening Tables to aid in measuring the reduction of GHG emissions attributable to certain design and construction measures incorporated into development projects. The CAP contains a menu of measures potentially applicable to discretionary development that include energy conservation, water use reduction, increased residential density or mixed uses, transportation management and solid waste recycling. Individual sub-measures are assigned a point value within the overall screening table of GHG implementation measures. The point values are adjusted according to the intensity of action items with modest adoption/installation (those that reduce GHG emissions by modest amounts) worth the least number of points and greatly enhanced adoption/installation worth the most. Projects that garner at least 100 points (equivalent to an approximate 49% reduction in GHG emissions) are determined to be consistent with the reduction quantities anticipated in the County's GHG Technical Report, and consequently would be consistent with the CAP. As such, projects that achieve a total of 100 points or more are considered to have a less than significant individual and cumulative impact on GHG emissions.

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4 DISCUSSION ON ESTABLISHMENT OF SIGNIFICANCE THRESHOLDS

The criteria used to determine the significance of potential Project-related GHG impacts are as follows:

- Consistency with AB 32/SB 32 through evaluating the Project's consistency and compliance with applicable statewide and local regulatory programs designed to reduce GHG emissions consistent with AB 32/SB 32.
- Project consistency with the CAP using the CAP Screening Tables. Since the County of Riverside CAP was developed using AB 32/SB 32, this approach is also supports the Project's consistency with AB 32/SB 32.
- Consistency with SB 375. Consistency with SB 375 was evaluated based on the growth assumptions of Southern California Association of Governments' (SCAG) 2016-2040 Regional Transportation/Sustainable Community Strategy (RTP/SCS).

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5 PROJECT GREENHOUSE GAS IMPACT

5.1 INTRODUCTION

The Project has been evaluated to determine if it will result in a significant GHG impact. Because the proposed Project involves a shift in land uses as compared to the 2003 EIR Phase III. For the purposes of this GHG study, the net change in emissions is considered the "Project". As such, this GHGA provides emissions for both the proposed Project and the 2003 EIR Phase III conditions in order to provide an appropriate comparative analysis. The significance of these potential impacts is described in the following section.

5.2 METHODOLOGY

5.2.1 CALEEMOD

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 CalEEMod Version 2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutants and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (47). Accordingly, the latest version of CalEEMod has been used for this Project to determine GHG emissions. Output from the model runs for construction and operational activity are provided in Appendices 5.1 through 5.6. CalEEMod includes GHG emissions from the following source categories: construction, area, energy, mobile, on-site cargo handling equipment, water, and waste.

LAND USES MODELED IN CALEEMOD

This Report analyzed the Project as consisting of 388,011 sf of office, 221,394 sf of commercial, 61,336 sf of grocery store, 1,764,180 sf of business park, 800,000 sf of high-cube warehouse, 700,000 sf of high-cube cold storage warehouse, 274,437 sf of warehousing, and a 6.2 acre dog park.

CalEEMod land uses that most closely fit the described Project are reflected in these analyses[5]. For purposes of analysis, the following construction and operation scenarios and land uses were modeled:

5 CalEEMod has limitations on the number of land use types that can be input for any given model run, so similar land use types were selected and the defaults were adjusted to reflect the Project's land use.

TABLE 5-1: PROPOSED PROJECT LAND USES

Land Use	Quantity	Size Metric	Acreage
Office	70.132	TSF	1.61
Office (75% of Mixed Use)	317.879	TSF	7.30
Office Subtotal	**388.011**	**TSF**	**8.91**
Commercial	115.434	TSF	2.65
Commercial (25% of Mixed Use)	105.960	TSF	2.43
Commercial Subtotal	**221.394**	**TSF**	**5.08**
Commercial (Grocery Store)	61.336	TSF	1.41
Commercial (Grocery Store) Subtotal	**61.336**	**TSF**	**1.41**
Office (30% of Business Park)	529.254	TSF	12.15
Office (30% of Business Park) Subtotal	**529.254**	**TSF**	**12.15**
Warehousing (70% of Business Park)	1,234.926	TSF	28.35
Warehousing (70% of Business Park) Subtotal	**1,234.926**	**TSF**	**28.35**
Warehousing	274.437	TSF	6.30
Warehousing Subtotal	**274.437**	**TSF**	**6.30**
High-Cube Cold Storage Warehouse	700.000	TSF	16.07
High-Cube Cold Storage Warehouse Subtotal	**700.000**	**TSF**	**16.07**
High-Cube Transload Short-Term Warehouse (Building D)	800.000	TSF	18.37
High-Cube Transload Short-Term Warehouse (Building D) Subtotal	**800.000**	**TSF**	**18.37**
Dog Park & Paseo	6.2	AC	6.2
Proposed Dog Park & Paseo	**6.2**	**AC**	**6.2**

TABLE 5-2: BUILT/ENTITLED LAND USES[6]

Land Use	Quantity	Size Metric	Acreage
LGB6 (Building A)	1,000.000	TSF	22.96
LGB6 (Building A) Subtotal	**1,000.000**	**TSF**	22.96
Parcel Delivery Site (Building B + Parking Lot)	1,000.000	TSF	22.96
Parcel Delivery Site (Building B + Parking Lot) Subtotal	**1,000.000**	**TSF**	**22.96**
Commercial (Parcel 72)	15.485	TSF	0.36
Commercial (Parcel 72) Subtotal	**15.485**	**TSF**	**0.36**
Warehousing (Building C)	500.000	TSF	11.48
Built/Entitled Land Uses (Not Occupied) Warehousing (Building C)	**500.00**	**TSF**	**11.48**

[6] It should be noted that a Built and Occupied Land Use (LGB6 – Building A) has been identified in the TIA. The TIA does not distinguish and trips from this land use. In order to be consistent with the TIA, the analysis herein does not take credit for emissions from the Built and Occupied Land Use (LGB6 – Building A).

5.2.2 ROAD CONSTRUCTION EMISSIONS MODEL (RCEM)

Project specific sources resulting from Village West Drive Extension and associated water tank removal are estimated utilizing the most recent RCEM Version 9.0. RCEM was developed by the Sacramento Metropolitan Air Quality Management District as part of their *CEQA Guidelines* and Tools to analyze new road construction, road widening, bridge/overpass construction, and other linear projects. Although the CalEEMod is typically utilized for land use development projects in this region, the SCAQMD has identified the RCEM as an acceptable emissions modeling program when the use of CalEEMod is not appropriate, as is the case with projects such as this. Based on the nature of the project, emissions associated with the construction of the Village West Drive Extension are considered within the scope of this assessment[7]. Air quality outputs from the model runs are provided in Appendices 5.7.

5.2.3 EMISSIONS FACTOR MODEL (EMFAC)

On August 19, 2019, the EPA approved the 2017 version of the EMFAC web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by CARB to project changes in future emissions from on-road mobile sources (48). This GHGA utilizes annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities.

Because the EMFAC2017 emission rates are associated with vehicle fuel types while CalEEMod vehicle emission factors are aggregated to include all fuel types for each individual vehicle class, the EMFAC2017 emission rates for different fuel types of a vehicle class are averaged by activity or by population and activity to derive CalEEMod emission factors. The equations applied to obtain CalEEMod vehicle emission factors for each emission type are detailed in CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (49). EMFAC2017 emission rates utilized in this analysis can be found in Appendix 5.8 of this report.

5.2.4 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 (50). 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 (51). Additionally, the science to calculate life cycle emissions

[7] The specific RCEM option for new road construction was utilized for analysis of this Project. Subsequent subphases and equipment list are part of the defaults in that model and were therefore used in the analysis.

is not yet established or well defined; therefore, SCAQMD has not recommended, and is not requiring, life-cycle emissions analysis.

5.3 CONSTRUCTION EMISSIONS

5.3.1 CONSTRUCTION ACTIVITIES

One-time emissions are those emissions that are not recurring over the life of the project. This includes emissions associated with construction. Project construction actvities would generate CO_2 and CH_4 emissions The report *Meridian South Campus Air Quality Impact Analysis Report* (AQIA) (Urban Crossroads, Inc.) contains detailed information regarding Project construction activities (52). As discussed in the AQIA, construction related emissions are expected from the following construction activities:

5.3.1.1 MERIDIAN SOUTH CAMPUS DEVELOPMENT

- Site Preparation: involves clearing vegetation (grubbing and tree/stump removal) and removing stones and other unwanted material or debris prior to grading.
- Grading: involves cut and fill of land to ensure that the proper base and slope is created for the foundation.
- Building Construction: involves the construction of the foundation, structures, and buildings.
- Paving: involves the laying of concrete or asphalt such as in parking lots, roads, driveways, or sidewalks.
- Architectural Coating: involves the application of coatings to both the interior and exterior of buildings or structures, the painting of parking lot or parking garage striping, associated signage and cubes, and the painting of the walls or other components such as stair railings inside parking structures.

5.3.1.1 VILLAGE WEST DRIVE EXTENSION

- Grubbing/Land Clearing: involves clearing vegetation and removal of water tank.
- Grading/Excavation: involves cut and fill of land to ensure that the proper base and slope is created for the foundation.
- Drainage/Utilities/Subgrade: involves the placement of drainage, utilities, or subgrade material prior to paving activities.
- Paving: involves the laying of concrete or asphalt such as in parking lots, roads, driveways, or sidewalks.

5.3.2 CONSTRUCTION DURATION

Construction is expected to commence in January 2021 and will last through July 2024. As a conservative measure, it is assumed that the Village West Drive Extension will be constructed concurrent with the Meridian South Campus. The construction schedule utilized in the analysis, shown in Table 5-3, 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.[8] 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 Project's 2024 opening year.

TABLE 5-3: CONSTRUCTION SCHEDULE

Activity	Start Date	End Date	Days
Village West Drive Extension			
Grubbing/Land Clearing	01/04/2021	01/13/2021	8
Grading/Excavation	01/14/2021	02/17/2021	25
Drainage/Utilities/Subgrade	02/18/2021	03/23/2021	24
Paving	03/24/2021	04/06/2021	10
Meridian South Campus			
Site Preparation	01/04/2021	04/16/2021	75
Grading	04/17/2021	09/03/2021	100
Building Construction	09/04/2021	07/19/2024	750
Paving	02/18/2024	07/19/2024	110
Architectural Coating	09/16/2023	07/19/2024	220

5.3.3 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 defaults. A detailed summary of construction equipment assumptions by phase is provided at Table 5-4. Please refer to specific detailed modeling inputs/outputs contained in Appendix 5.1 of this GHGA.

TABLE 5-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 3)

Activity	Equipment	Amount	Hours Per Day	Horsepower	Load Factor
Village West Drive Extension					
Grubbing/Land Clearing	Crawler Tractors	1	8	212	0.43
	Excavator	1	8	158	0.38
	Signal Boards	2	8	6	0.82

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

TABLE 5-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 3)

Activity	Equipment	Amount	Hours Per Day	Horsepower	Load Factor
Village West Drive Extension					
Grading/Excavation	Crushing/Proc. Equipment	1	8	85	0.78
	Forklifts	3	8	89	0.20
	Graders	1	8	187	0.41
	Rollers	2	8	80	0.38
	Rubber Tired Loaders	1	8	247	0.40
	Scrapers	2	8	367	0.48
	Signal Boards	2	8	6	0.82
	Tractors/Loaders/Backhoes	2	8	97	0.37
Drainage/Utilities/Sub grade	Air Compressors	1	8	78	0.48
	Generator Sets	1	8	84	0.74
	Graders	1	8	187	0.41
	Plate Compactors	1	8	8	0.43
	Pumps	1	8	84	0.74
	Rough Terrain Forklifts	1	8	100	0.40
	Scrapers	2	8	367	0.48
	Signal Boards	2	8	6	0.82
	Tractors/Loaders/Backhoes	2	8	97	0.37
Paving	Pavers	1	8	130	0.42
	Paving Equipment	1	8	132	0.36
	Rollers	3	8	80	0.38
	Signal Boards	2	8	6	0.82
	Tractors/Loaders/Backhoes	2	8	97	0.37
Meridian South Campus					
Site Preparation	Crawler Tractors	4	8	212	0.43
	Rubber Tired Dozers	3	8	247	0.40
Grading	Crawler Tractors	2	8	212	0.43
	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.40
	Scrapers	2	8	367	0.48

TABLE 5-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (3 OF 3)

Activity	Equipment	Amount	Hours Per Day	Horsepower	Load Factor
Meridian South Campus					
Building Construction	Cranes	1	8	231	0.29
	Crawler Tractors	3	8	212	0.43
	Forklifts	3	8	89	0.20
	Generator Sets	1	8	84	0.74
	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	8	78	0.48

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

5.3.4 GHG EMISSIONS FROM ON-ROAD TRIPS

Construction generates on-road vehicle emissions from vehicle usage for workers, hauling. vendors, and water trucks commuting to and from the site. The number of worker, hauling, vendor, and water truck trips are presented below in Table 5-5.

TABLE 5-5: CONSTRUCTION TRIP ASSUMPTIONS

Activity	Worker Trips Per Day	Hauling Trips Per Day	Vendor Trips Per Day	Water Trucks Trips Per Day
Village West Drive Extension				
Grubbing/Land Clearing	10	0	0	5
Grading/Excavation	36	0	0	5
Drainage/Utilities/Subgrade	30	0	0	5
Paving	24	0	0	5
Meridian South Campus				
Site Preparation	18	0	0	0
Grading	20	0	0	0
Building Construction	1,706	0	690	0
Paving	15	0	0	0
Architectural Coating	682	0	0	0

5.3.5 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 then adding that number to the annual operational phase GHG emissions (53). 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 5-6.

TABLE 5-6: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS

Year	Construction Equipment CO_2e Emissions (MT/yr)	On-Road Vehicle CO_2e Emissions (MT/yr)	Total
2021	836.07	1,396.98	2,233.04
2022	488.06	4,073.95	4,562.01
2023	500.56	4,154.49	4,655.05
2024	407.85	2,558.02	2,965.87
Total Annual Construction Emissions	2,232.53	12,183.43	14,415.96
Amortized Construction Emissions ($MTCO_2e$)			**480.53**

5.4 OPERATIONAL EMISSIONS

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

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Cargo Handling Equipment Emissions
- Water Supply, Treatment, and Distribution
- Solid Waste

5.4.1 AREA SOURCE EMISSIONS

CalEEMod estimates area source emissions for the following sources: architectural coating, consumer products, and landscape maintenance equipment. Detailed operational model outputs are presented in Appendices 5.2 and 5.3

ARCHITECTURAL COATING

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

CONSUMER PRODUCTS

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form O_3 and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

LANDSCAPE MAINTENANCE EQUIPMENT

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

5.4.2 ENERGY SOURCE EMISSIONS

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas.

INTEGRATED ENERGY POLICY REPORT

Project building operations and Project site maintenance activities would result in the consumption of natural gas and electricity. Natural gas would be supplied to the Project by Southern California Gas (SoCalGas) and electricity would be supplied to the Project by Southern California Edison (SCE).

The intensity factors for CH_4 and N_2O used for the Project were modified based on SCE's 2017 and 2018 energy delivery data to account for the RPS requirement for 2020. The emissions factors presented herein has been calculated using linear trajectory to reach the 50% project RPS consistent with SB 32 and SB 350 for 2024. (54) (55)

TITLE 24 ENERGY EFFICIENCY STANDARDS

The California Energy Code 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 became effective on January 1, 2020. As such, the analysis herein assumes compliance with the 2019 Title 24 Standards because the Project will be constructed after January 1, 2020. The CEC anticipates that nonresidential buildings will use approximately 30% less energy compared to the prior code (56). The CalEEMod defaults for Title 24 – Electricity and Lighting Energy were reduced by 30% in order to reflect consistency with the 2019 Title 24 standard.

REFRIGERANTS

Refrigerant use is based on the amount and type of refrigerant used and recovery rate. The most commonly used refrigerant is HFC-134a for a smaller facility such as a grocery store, which has a

GWP of 1,360. For a larger facility, such as the proposed cold storage warehouse (up to 700,000 sf), HFC 401-A is used, which has a GWP of 1,920. The typical annual recovery rate is 95% for both large and small facilities. Therefore, if a facility had 1,000 kg of refrigerant, as is expected in a large warehouse, and 50 kg escapes every year, then the total CO2e would be 96 MT/year. If a grocery store had 100 kg of refrigerant on file and 5kg escapes every year, then the total CO2e would be 6.8 MT/year. This can be reduced significantly by using either R-744 for large facilities or HC-290 for small facilities which have a GWP of 1 and 5 respectively. (57) Notwithstanding, the estimation of refrigerant loss is speculative at this time and not included in the emissions calculations for the Project.

COUNTY OF RIVERSIDE CAP

The CAP was designed under the premise that the County of Riverside, and the community it represents, is uniquely capable of addressing emissions associated with sources under the County's jurisdiction (including March JPA), and that the emission reduction efforts should coordinate with the state strategies of reducing emissions in order to accomplish these reductions in an efficient and cost-effective manner. The Updated CAP (December 17, 2019) includes measure R2-CE1, which requires one or more new buildings totaling more than 100,000 gross sf of commercial, office, industrial, or manufacturing development to offset its energy demand by 20% (58). Pursuant to MM GHG-4, the Project will install approximately 12 MW of solar PV electricity generation which equates to approximately 40% of the Project's energy demand. With implementation of MM GHG-4, the Project satisfies, and in fact exceeds, the minimum requirements set forth by R2-CE1.

5.4.3 MOBILE SOURCE EMISSIONS

The Project related operational emissions derive primarily from vehicle trips generated by the Project. Trip characteristics available from the TIA were utilized in this analysis (2).

The Proposed Project + Built/Entitled Land Uses are expected to generate a total of approximately 31,424 two-way vehicular trips per day which includes 26,950 two-way passenger car trips and 4,475 two-way truck trips.

The 2003 EIR Phase III Land Uses are expected to generate a total of approximately 28,140 two-way vehicular trips per day which includes 26,058 two-way passenger car trips and 2,082 two-way truck trips.

As such, the Proposed Project is expected to generate a net total of 3,284 two-way vehicular trips per day which includes 892 two-way passenger car trips and 2,393 two-way truck trips.

The mobile-source emissions were calculated based on trip rates, trip lengths, and emission factors from EMFAC2017. Separate model runs were utilized in order to more accurately model emissions resulting from passenger car and truck operations. Detailed operational model outputs are presented in Appendices 5.2 and 5.3.

NOTE: VMT for transportation is calculated as an efficiency metric per the OPR Guidelines. The VMT analysis does not calculate total VMT associated with the Project. It is more appropriate for the analysis herein to rely on the trip rates from the TIA and the associated trip lengths established by similar projects within the SCAQMD jurisdiction.

TRIP RATES

The trip generation rates used for this analysis are consistent with the rates provided in the TIA which are based upon information collected by the Institute of Transportation Engineers (ITE) as provided in the *Trip Generation* manual, 10th Edition, 2017 (59).

TRIP LENGTHS

For passenger car trips (Light-Duty-Auto vehicles (LDA), Light-Duty Trucks (LDT1)[9], Light-Duty Trucks (LDT2)[10], and Medium-Duty Trucks (MDV)), the CalEEMod default for a one-way trip length of 16.6 miles was assumed. For heavy duty trucks (2-axle/Light-Heavy-Duty Trucks (LHDT), 3-axle/Medium-Heavy-Duty Trucks (MHDT), and 4+-axle/Heavy-Heavy-Duty Trucks (HHDT)) a one-way trip length of 60 miles was assumed. 60 miles is a more conservative assumption than the SCAQMD recommended 40-mile trip length and is consistent with past projects that the March JPA has entitled in the Meridian Business Center Specific Plan area.

PASSENGER CAR FLEET MIX

It is important to note that although the TIA does not breakdown passenger cars by type, this analysis assumes that passenger cars include LDA, LDT1, LDT2, and MDV vehicle types for the following uses:

TABLE 5-7: PASSENGER CAR FLEET MIX (1 OF 2)

Land Use	Vehicle Type	%
Warehousing (70% of Business Park)	LDA	62.30
	LDT1	4.04
	LDT2	21.21
	MDV	12.44
Warehousing	LDA	62.30
	LDT1	4.04
	LDT2	21.21
	MDV	12.44
High-Cube Cold Storage Warehouse	LDA	62.30
	LDT1	4.04
	LDT2	21.21
	MDV	12.44

[9] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[10] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

TABLE 5-7: PASSENGER CAR FLEET MIX (2 OF 2)

Land Use	Vehicle Type	%
High-Cube Transload Short-Term Warehouse (Building D)	LDA	62.30
	LDT1	4.04
	LDT2	21.21
	MDV	12.44

The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicles types. For all other uses (office, commercial, grocery store, and dog park & paseo), the CalEEMod default fleet mix was used.

TRUCK FLEET MIX

In order to be consistent with the TIA, trucks are broken down by truck type. The trucks are comprised of LHDT, MHDT, and HHDT. In order to account for emissions generated by trucks, the following fleet mix was utilized in this analysis:

TABLE 5-8: TRUCK FLEET MIX

Land Use	Vehicle Type	%
Warehousing (70% of Business Park)	LHDT	16.70
	MHDT	20.70
	HHDT	62.60
Warehousing	LHDT	16.70
	MHDT	20.70
	HHDT	62.60
High-Cube Cold Storage Warehouse	LHDT	34.70
	MHDT	1.10
	HHDT	54.30
High-Cube Transload Short-Term Warehouse (Building D)	LHDT	16.70
	MHDT	20.70
	HHDT	62.60

It should be noted that the Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT, MHDT, and HHDT) relative to the total number of truck trips. For all other uses (office, commercial, grocery store, and dog park & paseo), the CalEEMod default fleet mix was used.

5.4.4 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS

It is common for industrial warehouse buildings to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers. The most common type of cargo handling equipment is

the yard truck which is designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors (UTRs), hustlers, yard hostlers, and yard tractors. The cargo handling equipment is assumed to have a horsepower (hp) range of approximately 175 hp to 200 hp. Based on the latest available information from SCAQMD (60); for example, high-cube warehouse projects typically have 3.6 yard trucks per million sf of building space. For this particular Project, based on the maximum square footage of industrial building space permitted by the Project, on-site modeled operational equipment includes up to eleven (11) 200 hp, compressed natural gas or gasoline-powered yard tractors operating at 4 hours a day for 365 days of the year (4 yard tractors for the warehouse (70% of business park), 1 yard tractor for the warehouse, 3 yard tractors for the high-cube transload short-term warehouse, and 3 yard tractors for the high-cube cold storage warehouse use). In order to account for emissions associated with the 11 on-site pieces of cargo handling equipment, these were input into CalEEMod under the on-site equipment screen as 200 hp tractor/loader/backhoes with a load factor of 0.37 and a selection of natural gas as the fuel type. It should be noted that the resulting emissions calculations in CalEEMod from on-site equipment are the same for both natural gas and gasoline powered equipment for this category.

5.4.5 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.

5.4.6 Solid Waste

The land uses proposed by the Project 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 Project were calculated by CalEEMod using default parameters.

5.4.7 GHG Emissions

5.4.7.1 Proposed Project Land Uses GHG Emissions Summary

Impacts Without Mitigation

The annual GHG emissions associated with the operation of the Proposed Project Uses are estimated to be 74,495.65 $MTCO_2e$/yr as summarized in Table 5-9.

TABLE 5-9: PROPOSED PROJECT USES GHG EMISSIONS – WITHOUT MITIGATION

Emission Source	CO_2e Emissions (MT/yr)
	Unmitigated
Annual construction-related emissions amortized over 30 years	480.53
Area Source	0.11
Energy Source	8,887.85
Mobile Source (Passenger Car)	26,354.51
Mobile Source (Truck)	33,655.38
On-Site Equipment	562.98
Waste	535.69
Water Usage	4,018.59
Proposed Project Land Uses Total CO_2e Emissions (All Sources)	**74,495.65**

IMPACTS WITH MITIGATION

The quantifiable emission reductions are presented below:

MM GHG-4

The Project will install approximately 12 MW of solar PV electricity generation. As shown on Table 5-10, GHG emission reduction from rooftop solar PV panels is approximately 4,422 $MTCO_2e$/yr. Calculations for GHG emission reductions are provided in Appendix 5.9.

MM GHG-11

The Project will provide circuitry and capacity for installation of EV charging stations consistent with the County's CAP. Per information provided by the Project Applicant, the Project will develop 20 charging stations. Credit for GHG emissions reductions after implementation of MM GHG-11 is presented in Table 5-20. Calculations for GHG emission reductions are provided in Appendix 5.10.

After implementation of the quantified MMs, the annual GHG emissions associated with the operation of the Proposed Project Land Uses are estimated to be 69,697.65 $MTCO_2e$/yr as summarized in Table 5-10.

TABLE 5-10: PROPOSED PROJECT LAND USES GHG EMISSIONS – WITH MITIGATION

Emission Source	CO_2e Emissions (MT/yr)
	Mitigated
Annual construction-related emissions amortized over 30 years	480.53
Area Source	0.11
Energy Source	8,887.85
Mobile Source (Passenger Car)	26,354.51
Mobile Source (Truck)	33,655.38
On-Site Equipment	562.98
Waste	535.69
Water Usage	4,018.59
Reductions from Rooftop Solar PV Panels	*-4,422.00*
Reductions from EV Charing Stations	*-376.00*
Proposed Project Land Uses Total CO_2e Emissions (All Sources)	**69,697.65**

5.4.7.2 BUILT/ENTITLED LAND USES GHG EMISSIONS SUMMARY

As previously stated, the built/entitled land uses will be included as part of the proposed Project scenario. As such, built/entitled land use GHG emissions are presented in Table 5-11. Detailed operational model outputs are presented in Appendices 5.4 and 5.5.

TABLE 5-11: BUILT/ENTITLED LAND USES GHG EMISSIONS

Emission Source	CO_2e Emissions (MT/yr)
Area Source	0.07
Energy Source	1,615.40
Mobile Source (Passenger Car)	10,078.09
Mobile Source (Truck)	56,046.63
On-Site Equipment	511.80
Waste	1,189.99
Water Usage	2,449.72
Built/Entitled Land Uses Total CO_2e Emissions	**71,891.70**

5.4.7.3 PROPOSED PROJECT + BUILT/ENTITLED LAND USES GHG EMISSIONS

The Proposed Project Land Uses plus the Built/Entitled Land Uses GHG emissions are presented in Table 5-12.

TABLE 5-12: PROPOSED PROJECT + BUILT/ENTITLED LAND USES GHG EMISSIONS

Emission Source	CO_2e Emissions (MT/yr)
	Mitigated
Proposed Project Land Use Emissions	69,697.65
Built/Entitled Land Use Emissions	71,891.70
Total CO_2e Emissions (Proposed Project + Built/Entitled)	**141,589.35**

5.4.7.4 2003 EIR PHASE III LAND USE GHG EMISSIONS

Emissions generated from the land uses proposed in the 2003 EIR Phase III are presented in Table 5-13. Detailed operational model outputs are presented in Appendix 5.6.

TABLE 5-13: 2003 EIR PHASE III GHG EMISSIONS

Emission Source	CO_2e Emissions (MT/yr)
Area	0.21
Energy	15,693.28
Mobile (Passenger Cars)	43,818.89
Mobile (Trucks)	49,264.63
On-Site Equipment	1,433.04
Waste	3,801.37
Water Usage	9,830.27
2003 EIR Phase III Total CO_2e Emissions	**123,841.70**

5.4.7.5 PROPOSED PROJECT NET EMISSIONS

The net change in emissions associated with the 2003 EIR Phase III to the currently proposed Project (Proposed Project + Built/Entitled Land Uses) are presented in Table 5-14. As shown, the Project (net change in emissions) associated with the shift in mix of uses from the 2003 EIR Phase III to the proposed Project would result in a net increase in GHG emissions.

TABLE 5-14: PROPOSED PROJECT NET GHG EMISSIONS

Emission Source	CO_2e Emissions (MT/yr)
Proposed Project + Built/Entitled Land Uses	141,589.35
2003 EIR Phase III	123,841.70
Proposed Project Net CO_2e Emissions	**17,747.66**

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6 GHG EMISSIONS FINDINGS AND RECOMMENDATIONS

6.1 CONSISTENCY WITH AB 32

In the absence of any adopted quantitative threshold, March JPA, as the lead agency, has determined that a project would not have a significant effect on the environment if a project is found to be consistent with the applicable regulatory plans and policies to reduce GHG emissions.

As previously stated, pursuant to 15064.4 of the *CEQA Guidelines*, a lead agency may rely on qualitative analysis or performance-based standards to determine the significance of impacts from GHG emissions (61). As such, the Project's consistency with AB 32, SB 32, and the County of Riverside's CAP are discussed below.

6.1.1 2008 SCOPING PLAN CONSISTENCY

It should be noted that the Project's consistency with the 2008 Scoping Plan is not necessary, since the target year for the 2008 Scoping Plan was 2020 (and these targets have already been met[11]), and the Project's buildout year is 2024. Notwithstanding, consistency with the *2008 Scoping Plan* is provided for informational purposes.

CARB's *Scoping Plan* identifies strategies to reduce California's GHG 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.[12] Ensure California's program meets all applicable AB 32 requirements for market-based mechanisms.
2. **California Light-Duty Vehicle GHG 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).

[11] Based upon the 2019 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2017 GHG emissions period, California emitted an average 424.1 $MMTCO_2e$. This is less than the 2020 emissions target of 431 $MMTCO_2e$.

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

4. **Renewables Portfolio Standards.** Achieve 33% renewable energy mix statewide.
5. **LCFS.** Develop and adopt the LCFS.
6. **Regional Transportation-Related GHG Targets.** Develop regional GHG 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 2008 and went into effect in 2010.[13] 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 GHG emissions and provide other pollution reduction co-benefits. Reduce GHG 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 6-1 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.

TABLE 6-1: 2008 SCOPING PLAN CONSISTENCY SUMMARY

Action	Supporting Measures[14]	Consistency
Cap-and-Trade Program	--	Consistent. These programs involve capping emissions from electricity

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

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

Action	Supporting Measures[14]	Consistency
		generation and similar operations. The Project would not interfere with or obstruct cap-and-trade program measures or initiatives.
Light-Duty Vehicle Standards	T-1	Consistent. Vehicles accessing the Project would be required to comply with these standards as implemented. EV charging stations would be installed on site per 2019 Title 24 standards.
Energy Efficiency	E-1 E-2 CR-1 CR-2	Consistent. The Project would achieve building, water, and solid waste management efficiencies consistent with the incumbent CALGreen requirements.
Renewables Portfolio Standard	E-3	Consistent. Establishes the minimum statewide renewable energy mix. The Project would not interfere with or obstruct RPS program measures or initiatives.
LCFS	T-2	Consistent. Establishes reduced carbon intensity (CI) of transportation fuels. The Project would not interfere with or obstruct transportation fuel CI program measures or initiatives.
Regional Transportation-Related GHG Targets	T-3	Consistent. Establishes regional GHG transportation-source GHG emissions targets. The Project would not interfere with or obstruct transportation-related GHG target measures or initiatives.
Vehicle Efficiency Measures	T-4	Consistent. Vehicles accessing the Project would be required to comply with these measures as implemented. The Project would not interfere with or obstruct vehicle efficiency measures or initiatives.
Goods Movement	T-5 T-6	Consistent. Goods movement associated with the Project would be required to comply with these measures as implemented. The Project would not interfere with or obstruct goods movement measures or initiatives.
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. The Project building designs would incorporate PV solar panels or would be designed to accept future installation of PV solar panels.

Action	Supporting Measures[14]	Consistency
Medium- & Heavy-Duty Vehicles	T-7	Consistent. Medium- & heavy-duty vehicles accessing the Project would be required to comply with these measures as implemented. The Project would not interfere with or obstruct medium- & heavy-duty vehicle measures or initiatives.
	T-8	
Industrial Emissions	I-1	Consistent. These measures are applicable to large industrial facilities (> 500,000 $MTCO_2e$/yr.) and other intensive uses such as refineries. The Project would not interfere with or obstruct industrial emissions measures or initiatives.
	I-2	
	I-3	
	I-4	
	I-5	
High Speed Rail	T-9	Consistent. The Project would not interfere with or obstruct high speed rail measures or initiatives.
Green Building Strategy	GB-1	Consistent. The Project would implement building, water, and solid waste management efficiencies consistent with incumbent CALGreen requirements.
High Global Warming Potential Gases	H-1	Consistent. The Project is not a substantial source of high GWP emissions. The Project would not interfere with or obstruct high GWP emissions measures or initiatives.
	H-2	
	H-3	
	H-4	
	H-5	
	H-6	
	H-7	
Recycling and Waste	RW-1	Consistent. The Project would comply with mandated State and County recycling and waste management measures. Beyond these mandates, the Project demolition plan will be designed and implemented to yield a minimum of 90% recycled materials.
	RW-2	
	RW-3	
Sustainable Forests	F-1	Consistent. The Project will increase carbon sequestration by planting on-site trees per the Project landscaping plan as required by the March Business Center Design Guidelines.
Water	W-1	Consistent. The Project will include use of low-flow fixtures and efficient landscaping per State and local requirements.
	W-2	
	W-3	
	W-4	
	W-5	
	W-6	

Action	Supporting Measures[14]	Consistency
Agriculture	A-1	Not applicable. The Project is not an agricultural use.

6.1.2 SB 32/2017 SCOPING PLAN CONSISTENCY

The *2017 Scoping Plan* Update reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Table 6-2 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 is consistent with and supports the following six categories.

TABLE 6-2: *2017 SCOPING PLAN* CONSISTENCY SUMMARY[15]

Action	Responsible Parties	Consistency
Implement SB 350 by 2030		
Increase the Renewables Portfolio Standard to 50% of retail sales by 2030 and ensure grid reliability.	CPUC, CEC, CARB	Consistent. The Project would use energy from SCE. SCE has committed to diversify its portfolio of energy sources by increasing energy from wind and solar sources. The Project would not interfere with or obstruct SCE energy source diversification efforts.
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. The Project would be designed and constructed to implement the energy efficiency measures for new commercial developments and would include several measures designed to reduce energy consumption. The Project would not interfere with or obstruct policies or strategies to establish annual targets for statewide energy efficiency savings and demand reduction.
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 Project would be designed and constructed to implement energy efficiency measures acting to reduce electricity consumption. The Project includes energy efficient lighting and fixtures that meet the current Title 24 Standards. Further, the Project proposes contemporary industrial facilities that would incorporate energy efficient boilers, heaters, and air conditioning systems.
Implement Mobile Source Strategy (Cleaner Technology and Fuels)		

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

Action	Responsible Parties	Consistency
At least 1.5 million zero emission and plug-in hybrid light-duty EVs by 2025.	CARB, California State Transportation Agency (CalSTA), Strategic Growth Council (SGC), California Department of Transportation (Caltrans), CEC, OPR, Local Agencies	Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB zero emission and plug-in hybrid light-duty EV 2025 targets.
At least 4.2 million zero emission and plug-in hybrid light-duty EVs by 2030.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB zero emission and plug-in hybrid light-duty EV 2030 targets.
Further increase GHG stringency on all light-duty vehicles beyond existing ACC regulations.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to further increase GHG stringency on all light-duty vehicles beyond existing ACC regulations.
Medium- and Heavy-Duty GHG Phase 2.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to implement Medium- and Heavy-Duty GHG Phase 2
Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20% of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100% 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.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts improve transit-source emissions.
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% of new Class 3–7 truck sales in local fleets starting in 2020, increasing to 10% in 2025 and remaining flat through 2030.		Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to improve last mile delivery emissions.
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. This Project would not obstruct or interfere with implementation of SB 375 and would therefore not conflict with this measure.
	CARB	Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct

Action	Responsible Parties	Consistency
Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets).		or interfere with CARB efforts to Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets).
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 Development (GO-Biz), California Infrastructure and Economic Development Bank (IBank), Department of Finance (DOF), California Transportation Commission (CTC), Caltrans	Consistent. The Project would not obstruct or interfere with agency efforts to harmonize transportation facility project performance with emissions reductions and increase competitiveness of transit and active transportation modes.
By 2019, develop pricing policies to support low-GHG transportation (e.g. LEV III zones for heavy duty, road user, parking pricing, transit discounts).	CalSTA, Caltrans, CTC, OPR, SGC, CARB	Consistent. The Project would not obstruct or interfere with agency efforts to develop pricing policies to support low-GHG transportation.
Implement California Sustainable Freight Action Plan		
Improve freight system efficiency.	CalSTA, CalEPA, CNRA, CARB, Caltrans, CEC, GO-Biz	Consistent. 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. The Project would not obstruct or interfere with agency efforts to Improve freight system efficiency.
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.		Consistent. The Project would not obstruct or interfere with agency efforts to deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and

Action	Responsible Parties	Consistency
		equipment powered by renewable energy by 2030.
Adopt a LCFS with a Carbon Intensity reduction of 18%.	CARB	Consistent. When adopted, this measure would apply to all fuel purchased and used by the Project in the state. The Project would not obstruct or interfere with agency efforts to adopt a LCFS with a Carbon Intensity reduction of 18%.
Implement the Short-Lived Climate Pollutant Strategy (SLPS) by 2030		
40% reduction in methane and hydrofluorocarbon emissions below 2013 levels.	CARB, CalRecycle, CDFA, SWRCB, Local Air Districts	Consistent. The Project would be required to comply with this measure and reduce any Project-source SLPS emissions accordingly. The Project would not obstruct or interfere with agency efforts to reduce SLPS emissions.
50% reduction in black carbon emissions below 2013 levels.		
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	Consistent. The Project would implement waste reduction and recycling measures consistent with State and County requirements. The Project would not obstruct or interfere with agency efforts to support organic waste landfill reduction goals in the SLCP and SB 1383.
Implement the post-2020 Cap-and-Trade Program with declining annual caps.	CARB	Consistent. The Project would be required to comply with any applicable Cap-and-Trade Program provisions. The Project would not obstruct or interfere with agency efforts to implement the post-2020 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	Consistent. The Project site is designated for industrial uses. The Project does not propose land conversion. The Project would not obstruct or interfere with agency efforts to protect land from conversion through conservation easements and other incentives.
Increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity		Consistent. The Project site is vacant disturbed property and does not comprise an area that would effectively provide for carbon sequestration. The Project would not obstruct or interfere with agency

Action	Responsible Parties	Consistency
		efforts to increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity.
Utilize wood and agricultural products to increase the amount of carbon stored in the natural and built environments		Consistent. Where appropriate, Project designs will incorporate wood or wood products. The Project would not obstruct or interfere with agency efforts to encourage use of wood and agricultural products to increase the amount of carbon stored in the natural and built environments.
Establish scenario projections to serve as the foundation for the Implementation Plan		Consistent. The Project would not obstruct or interfere with agency efforts to establish scenario projections to serve as the foundation for the Implementation Plan.
Establish a carbon accounting framework for natural and working lands as described in SB 859 by 2018	CARB	Consistent. The Project would not obstruct or interfere with agency efforts to establish a carbon accounting framework for natural and working lands as described in SB 859 by 2018.
Implement Forest Carbon Plan	CNRA, California Department of Forestry and Fire Protection (CAL FIRE), CalEPA and Departments Within	Consistent. The Project would not obstruct or interfere with agency efforts to implement the Forest Carbon Plan.
Identify and expand funding and financing mechanisms to support GHG reductions across all sectors.	State Agencies & Local Agencies	Consistent. The Project would not obstruct or interfere with agency efforts to identify and expand funding and financing mechanisms to support GHG reductions across all sectors.

As shown above, the Project would not conflict with any of the *2017 Scoping Plan* elements as any regulations adopted would apply directly or indirectly to the Project. Further, recent studies show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40% below 1990 levels by 2030 (41).

6.2 CONSISTENCY WITH COUNTY OF RIVERSIDE CAP

The Project final plans and designs would conform to provisions of the CAP through implementation of the Screening Table Measures listed at Table 6-3.

The Project site is located in the jurisdiction of the March JPA within the County of Riverside. Although the County of Riverside does not have direct authority over the Project, consistency with the County's CAP provides an additional metric to determine if the Project's impacts are significant. This information is presented for informational purposes to illustrate how the Project has been designed to reduce GHG emissions.

The Project shall implement Screening Table Measures providing for a minimum 100 points per the County Screening Tables. The Project would be consistent with the CAP's requirement to achieve at least 100 points and thus the Project is considered to have a less than significant individual and cumulatively considerable impact on GHG emissions. The March JPA shall verify incorporation of the identified Screening Table Measures within the Project building plans and site designs prior to the issuance of building permit(s) and/or site plans (as applicable). The March JPA shall verify implementation of the identified Screening Table Measures prior to the issuance of Certificate(s) of Occupancy.

An example of how the Project will achieve a minimum of 100 Screening Table Points is provided at Table 6-3. Measures that achieve equivalent points or emissions reductions may be substituted.

TABLE 6-3: CAP CONSISTENCY

Feature	Description	Points
EE10.A.1 Insulation	Enhanced Insulation (rigid wall insulation R-13, roof/attic R-38)	11
EE10.A.2 Windows	Greatly Enhanced Window Insulation (0.28 or less U-factor, 0.22 or less SHGC)	7
EE10-A.3 Cool Roofs	Modest Cool Roof (CRRC Rated 0.15 aged solar reflectance, 0.75 thermal emittance)	7
EE10.A.4 Air Infiltration	Blower Door HERS Verified Envelope Leakage of equivalent	6
EE10.B.1 Heating/Cooling Distribution System	Modest Duct Insulation (R-6)	5
EE10.B.2 Space Heating/Cooling Equipment	Improved Efficiency HVAC (EER 14/78% AFUE or 8 HSPF)	4
EE10B.4 Water Heaters	High Efficiency Water Heater (0.72 Energy Factor)	10
EE10.B.5 Daylighting	All rooms daylighted	1
EE10.B.6 Artificial Lighting	High Efficiency Lights (50% of in-unit fixtures are high efficiency)	7

Feature	Description	Points
CE1B.1 Photovoltaic	Solar Photovoltaic panels installed on commercial buildings or in collective arrangements within a commercial development such that the total power provided augments: • 40% of the power needs of the Project[16].	12
W2.E.2 Toilets	Water Efficient Toilets/Urinals (1.5 gpm)	6
	Waterless Urinals (note that commercial buildings having both waterless urinals and high efficiency toilets will have a combined point value of 6 points)	
W2.E.3 Faucets	Water Efficient faucets (1.28 gpm)	2
T4.B.1 EV Recharging	Install EV charging stations in garages/parking areas	160[17]
	TOTAL POINTS EARNED BY COMMERCIAL/INDUSTRIAL PROJECT	***238***

Projects that garner at least 100 points through application of the Screening Table Measures are determined to be consistent with the reduction quantities anticipated in the County's GHG Technical Report, and consequently would be consistent with the CAP. The Project will implement Screening Table Measures that would provide a minimum of 100 Screening Table Points and would therefore be considered consistent with the CAP.

The County's CAP currently evaluates and quantifies reductions out to Year 2030. The CAP states that "Through 2050, Riverside County would continue implementation of the Screening Tables. During this time, the reduction measures implemented through the Screening Tables would continue to reduce GHG missions from new development. Additionally, it is assumed that the State measures would keep being updated and reinforced to further reduce emissions. With these assumptions, Riverside County's emissions would decrease to a level below the reduction target by 2050 (58)." Thus, compliance with the CAP would serve to meet and support the reduction targets established SB 32 and CARB *2017 Scoping Plan*.

6.3 CONSISTENCY WITH SB 375 (SCAG RTP/SCS)

The SCAG RTP/SCS is a long-range transportation plan that is developed and updated by SCAG every four years. The RTP provides a vision for transportation investments throughout the region. The SCS will integrate land use and transportation strategies that will achieve GHG emissions reduction targets that are forecasted to achieve reduction in GHG emissions to achieve the state's 2035 and 2040 GHG reduction goals.

The Project lies entirely within Traffic Analysis Zone (TAZ) 43261100. The *2016-2040 RTP/SCS* projects that within TAZ 43261100, there will be a total of 3,576 jobs by 2040. Adding jobs

[16] 40% of the power needs of the Project, as proposed, is roughly equivalent to a 12 MW system.

[17] The Project is anticipated to include 20 EV charging stations. Per the Screening Tables, each station is 8 points.

consistent with the *2016-2040 RTP/SCS* projections supports SCAG's achievement of CARB emissions reductions targets.

The SCS also indicates that this is a jobs poor area so providing more jobs will actually reduce GHG emissions and reduce VMT as it will provide local jobs to achieve a more favorable jobs-housing balance.

Additionally, the March JPA Draft General Plan discusses the need to create more jobs as described below:

- March JPA has a stated goal of providing 38,000 jobs, through development of its Planning Area, to the western Riverside County area thereby creating a much-needed job center. The creation of a job center is important to reduce the existing jobs/housing imbalance that exists in this region such that it can help reduce traffic congestion, pollution, fossil fuel dependence and improve the overall quality of life for the residents of western Riverside County.
- March JPA has a mission to replace regional economic benefit that was lost with the realignment of the active duty March Air Force Base into a Reserve Base in April 1996. The quantified benefits are the creation of at least 38,000 jobs, and more than $500 million annual economic contribution to the Riverside County region.

The Project is expected to generate 2,640 jobs. This is within the projected job total in TAZ 43261100 of 3,576 in 2040. Since the jobs created by the Project are within the job growth projections in the *2016-2040 RTP/SCS*, the Project will not impair the region's ability to achieve the GHG reductions from Project-related mobile sources as required by SB 375 because the land use development pattern proposed by the Project results in jobs within the total number of jobs projected by *2016-2040 RTP/SCS*, and is consistent with the underlying assumptions upon which *2016-2040 RTP/SCS* was based.

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8 CERTIFICATIONS

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

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

EDUCATION

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

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

PROFESSIONAL AFFILIATIONS

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

PROFESSIONAL CERTIFICATIONS

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 5.1:

CALEEMOD ANNUAL CONSTRUCTION EMISSIONS MODEL OUTPUTS (PROPOSED PROJECT LAND)

Meridian South Campus (Construction - Mitigated)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	388.01	1000sqft	8.91	388,011.00	0
Office Park	529.25	1000sqft	12.15	529,254.00	0
Refrigerated Warehouse-No Rail	700.00	1000sqft	16.07	700,000.00	0
Refrigerated Warehouse-Rail	800.00	1000sqft	18.37	800,000.00	0
Unrefrigerated Warehouse-No Rail	1,234.93	1000sqft	28.35	1,234,926.00	0
Unrefrigerated Warehouse-Rail	274.44	1000sqft	6.30	274,437.00	0
Other Asphalt Surfaces	90.11	Acre	90.11	3,925,017.36	0
City Park	6.20	Acre	6.20	270,072.00	0
Regional Shopping Center	221.39	1000sqft	5.08	221,394.00	0
Supermarket	61.34	1000sqft	1.41	61,336.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	482.54	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e Intensity Factor has been adjusted to reflect the 2024 RPS target.

Land Use -

Construction Phase - Construction Schedule adjusted to meet the 2024 Opening Year.

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

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

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

Off-road Equipment -

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

Trips and VMT - CalEEMod default worker/vendor trips assumes construction to occur concurrently. As this is an unlikely scenario, the analysis assumes 1/2 the CalEEMod default trips.

Grading - For purposes of analysis, it is assumed that up to 10 acres will be disturbed per day.

Architectural Coating - Super Compliant Low VOC Paint

Vehicle Trips - Construction Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - All equipment are required to be equipped with Tier 4 or better engines.

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	310.00	100.00
tblConstructionPhase	NumDays	3,100.00	750.00
tblConstructionPhase	NumDays	220.00	110.00

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tblEnergyUse	LightingElect	5.61	0.00
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tblEnergyUse	LightingElect	1.17	0.00
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tblEnergyUse	NT24E	2.60	0.00
tblEnergyUse	NT24E	36.52	0.00
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tblEnergyUse	NT24E	22.82	0.00
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tblEnergyUse	NT24NG	0.30	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
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tblSolidWaste	SolidWasteGenerationRate	360.85	0.00
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tblSolidWaste	SolidWasteGenerationRate	752.00	0.00
tblSolidWaste	SolidWasteGenerationRate	232.46	0.00

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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	4.5410e-003	2.5820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006

tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.54	0.57
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.62	0.65
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.89	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	1.48	8.27
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.37	2.3220e-003
tblVehicleEF	HHD	6,423.73	1,336.26
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.75	6.46
tblVehicleEF	HHD	0.90	1.82

tblVehicleEF	HHD	4.0020e-003	2.3850e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	3.8290e-003	2.2820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.51	0.60
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.03	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.0000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.59	0.68
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.04	1.0000e-006

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tblVehicleEF	HHD	1,397.92	1,223.81
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tblVehicleEF	HHD	5.7750e-003	3.0950e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	5.5250e-003	2.9620e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8580e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
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tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004

tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005
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tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.0560e-003	1.7230e-003
tblVehicleEF	LDA	3.6940e-003	0.04
tblVehicleEF	LDA	0.48	0.55
tblVehicleEF	LDA	0.88	1.94
tblVehicleEF	LDA	226.07	242.29
tblVehicleEF	LDA	52.35	49.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.6660e-003	6.2520e-003
tblVehicleEF	LDA	0.03	0.19

tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.2630e-003	2.3970e-003
tblVehicleEF	LDA	5.3800e-004	4.9400e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.1010e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4590e-003	1.9630e-003
tblVehicleEF	LDA	3.2010e-003	0.04
tblVehicleEF	LDA	0.59	0.67
tblVehicleEF	LDA	0.77	1.71
tblVehicleEF	LDA	246.14	263.37
tblVehicleEF	LDA	52.35	49.48
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	8.6630e-003	7.0570e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.4650e-003	2.6050e-003

tblVehicleEF	LDA	5.3600e-004	4.9000e-004
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.9510e-003	1.6620e-003
tblVehicleEF	LDA	3.7940e-003	0.04
tblVehicleEF	LDA	0.45	0.51
tblVehicleEF	LDA	0.90	1.98
tblVehicleEF	LDA	220.50	236.51
tblVehicleEF	LDA	52.35	49.99
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.4050e-003	6.0400e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2070e-003	2.3400e-003
tblVehicleEF	LDA	5.3800e-004	4.9500e-004
tblVehicleEF	LDA	0.03	0.05

tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7910e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	8.3780e-003	5.2640e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.09	1.16
tblVehicleEF	LDT1	2.45	2.17
tblVehicleEF	LDT1	285.86	290.48
tblVehicleEF	LDT1	66.26	60.86
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8710e-003	2.8740e-003
tblVehicleEF	LDT1	7.0500e-004	6.0200e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	9.4770e-003	5.9510e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.31	1.40
tblVehicleEF	LDT1	2.16	1.92
tblVehicleEF	LDT1	310.62	312.92
tblVehicleEF	LDT1	66.26	60.33
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.14	0.28
tblVehicleEF	LDT1	3.1220e-003	3.0970e-003
tblVehicleEF	LDT1	7.0000e-004	5.9700e-004
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.17	0.69

tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	8.0590e-003	5.0610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.02	1.08
tblVehicleEF	LDT1	2.50	2.22
tblVehicleEF	LDT1	278.41	283.64
tblVehicleEF	LDT1	66.26	60.97
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.7960e-003	2.8070e-003
tblVehicleEF	LDT1	7.0600e-004	6.0300e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	4.4370e-003	3.0680e-003

tblVehicleEF	LDT2	5.1650e-003	0.06
tblVehicleEF	LDT2	0.65	0.78
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tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1960e-003	3.0030e-003
tblVehicleEF	LDT2	7.5300e-004	6.3200e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	5.0280e-003	3.4890e-003
tblVehicleEF	LDT2	4.4840e-003	0.05
tblVehicleEF	LDT2	0.80	0.96

tblVehicleEF	LDT2	1.04	2.19
tblVehicleEF	LDT2	347.22	324.77
tblVehicleEF	LDT2	73.38	63.35
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	3.4790e-003	3.2130e-003
tblVehicleEF	LDT2	7.5100e-004	6.2700e-004
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.25
tblVehicleEF	LDT2	4.2650e-003	2.9430e-003
tblVehicleEF	LDT2	5.3220e-003	0.06
tblVehicleEF	LDT2	0.61	0.73
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tblVehicleEF	LDT2	310.62	297.05

tblVehicleEF	LDT2	73.38	64.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1100e-003	2.9390e-003
tblVehicleEF	LDT2	7.5400e-004	6.3400e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
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tblVehicleEF	LHD1	7.7330e-003	3.9530e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.87
tblVehicleEF	LHD1	9.23	9.22

tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.76	1.18
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.08	0.06

tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5250e-003
tblVehicleEF	LHD1	7.8700e-003	4.0100e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.74	0.54
tblVehicleEF	LHD1	1.92	0.83
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.08
tblVehicleEF	LHD1	28.79	9.95
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.65	1.11
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44

tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7750e-003	5.9720e-003
tblVehicleEF	LHD1	3.2400e-004	9.8000e-005
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5130e-003
tblVehicleEF	LHD1	7.7230e-003	3.9460e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.88
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.74	1.16
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004

tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.1640e-003	2.9170e-003
tblVehicleEF	LHD2	3.1560e-003	3.0330e-003
tblVehicleEF	LHD2	6.0040e-003	7.4140e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.98	0.50
tblVehicleEF	LHD2	14.26	14.53

tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.10	1.31
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21

tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9240e-003
tblVehicleEF	LHD2	3.1850e-003	3.0520e-003
tblVehicleEF	LHD2	5.8080e-003	7.1660e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.94	0.48
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.66
tblVehicleEF	LHD2	22.65	6.85
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	1.23
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.03

tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4300e-004	6.8000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9160e-003
tblVehicleEF	LHD2	3.1490e-003	3.0280e-003
tblVehicleEF	LHD2	6.0380e-003	7.4680e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.99	0.51
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.09	1.29
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.52	18.66
tblVehicleEF	MCY	9.72	8.60
tblVehicleEF	MCY	167.91	208.37
tblVehicleEF	MCY	44.95	59.78
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003

tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.0440e-003	2.0620e-003
tblVehicleEF	MCY	6.6800e-004	5.9200e-004
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.21	19.32
tblVehicleEF	MCY	9.09	8.01
tblVehicleEF	MCY	167.91	209.35
tblVehicleEF	MCY	44.95	58.19
tblVehicleEF	MCY	0.97	0.97
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	3.35	3.31

tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.10	2.11
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.0540e-003	2.0720e-003
tblVehicleEF	MCY	6.5200e-004	5.7600e-004
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.09	18.23
tblVehicleEF	MCY	9.70	8.56
tblVehicleEF	MCY	167.91	207.67
tblVehicleEF	MCY	44.95	59.73
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73

tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.6800e-004	5.9100e-004
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MDV	9.0280e-003	3.8660e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.88
tblVehicleEF	MDV	2.38	2.80
tblVehicleEF	MDV	444.64	380.99
tblVehicleEF	MDV	101.02	79.79
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.11	0.46

tblVehicleEF	MDV	0.18	0.34
tblVehicleEF	MDV	4.4520e-003	3.7660e-003
tblVehicleEF	MDV	1.0520e-003	7.9000e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.37
tblVehicleEF	MDV	0.01	4.4030e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.31	1.08
tblVehicleEF	MDV	2.10	2.47
tblVehicleEF	MDV	482.68	403.42
tblVehicleEF	MDV	101.02	79.12
tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.15	0.29
tblVehicleEF	MDV	4.8360e-003	3.9880e-003

tblVehicleEF	MDV	1.0460e-003	7.8300e-004
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	8.6740e-003	3.7110e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.00	0.82
tblVehicleEF	MDV	2.43	2.87
tblVehicleEF	MDV	433.14	374.20
tblVehicleEF	MDV	101.02	79.93
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	4.3370e-003	3.6990e-003
tblVehicleEF	MDV	1.0530e-003	7.9100e-004
tblVehicleEF	MDV	0.08	0.09

tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.95	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.38	4.04
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.30	0.00

tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.75	0.32
tblVehicleEF	MH	4.61	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.28	3.81
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	9.8840e-003	8.7110e-003
tblVehicleEF	MH	6.5000e-004	0.00
tblVehicleEF	MH	2.37	0.00

tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.99	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.37	4.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.29	0.00

tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MHD	0.02	3.2360e-003
tblVehicleEF	MHD	2.3370e-003	1.1890e-003
tblVehicleEF	MHD	0.04	8.2020e-003
tblVehicleEF	MHD	0.32	0.35
tblVehicleEF	MHD	0.19	0.16
tblVehicleEF	MHD	4.66	0.92
tblVehicleEF	MHD	149.14	67.57
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.28
tblVehicleEF	MHD	0.41	0.38
tblVehicleEF	MHD	0.47	0.90
tblVehicleEF	MHD	1.1800e-004	3.6800e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	1.1300e-004	3.5200e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.02	0.01

tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.4340e-003	6.4100e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2000e-004	8.2000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	0.02	3.0810e-003
tblVehicleEF	MHD	2.3650e-003	1.2070e-003
tblVehicleEF	MHD	0.04	7.9360e-003
tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.20	0.16
tblVehicleEF	MHD	4.45	0.88
tblVehicleEF	MHD	157.97	67.48
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.21
tblVehicleEF	MHD	0.42	0.38
tblVehicleEF	MHD	0.44	0.85
tblVehicleEF	MHD	1.0000e-004	3.1300e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	9.5000e-005	3.0000e-004

tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.28	0.04
tblVehicleEF	MHD	1.5170e-003	6.4000e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.30	0.05
tblVehicleEF	MHD	0.02	3.4620e-003
tblVehicleEF	MHD	2.3160e-003	1.1760e-003
tblVehicleEF	MHD	0.04	8.2760e-003
tblVehicleEF	MHD	0.44	0.42
tblVehicleEF	MHD	0.19	0.15
tblVehicleEF	MHD	4.73	0.93
tblVehicleEF	MHD	136.93	67.69
tblVehicleEF	MHD	1,057.85	926.25

tblVehicleEF	MHD	53.85	8.31
tblVehicleEF	MHD	0.39	0.40
tblVehicleEF	MHD	0.46	0.89
tblVehicleEF	MHD	1.4400e-004	4.4400e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
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tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.3190e-003	6.4200e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2100e-004	8.2000e-005
tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
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tblVehicleEF	OBUS	0.01	8.5080e-003

tblVehicleEF	OBUS	5.0590e-003	4.2530e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.25	2.37
tblVehicleEF	OBUS	68.87	68.87
tblVehicleEF	OBUS	1,088.96	1,309.02
tblVehicleEF	OBUS	69.21	19.83
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.36	0.82
tblVehicleEF	OBUS	1.2000e-005	8.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	8.0000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	6.6900e-004	6.5700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8400e-004	1.9600e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	0.01	8.5790e-003
tblVehicleEF	OBUS	5.1570e-003	4.3450e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.35	0.53
tblVehicleEF	OBUS	4.91	2.22
tblVehicleEF	OBUS	71.95	68.13
tblVehicleEF	OBUS	1,088.96	1,309.04
tblVehicleEF	OBUS	69.21	19.57
tblVehicleEF	OBUS	0.14	0.24
tblVehicleEF	OBUS	0.33	0.76
tblVehicleEF	OBUS	1.0000e-005	7.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	7.1000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9900e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7800e-004	1.9400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	0.01	8.4380e-003
tblVehicleEF	OBUS	5.0420e-003	4.2250e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.51
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.30	2.40
tblVehicleEF	OBUS	64.61	69.89
tblVehicleEF	OBUS	1,088.96	1,309.01
tblVehicleEF	OBUS	69.21	19.87
tblVehicleEF	OBUS	0.13	0.27
tblVehicleEF	OBUS	0.36	0.81
tblVehicleEF	OBUS	1.5000e-005	9.6000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004

tblVehicleEF	OBUS	1.4000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	6.2900e-004	6.6700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9700e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
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tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	9.0390e-003	5.9240e-003
tblVehicleEF	SBUS	0.06	7.2340e-003
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tblVehicleEF	SBUS	1,119.53	360.62

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tblVehicleEF	SBUS	3.64	4.25
tblVehicleEF	SBUS	7.3700e-003	3.1780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	7.0510e-003	3.0400e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
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tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.35	0.04
tblVehicleEF	SBUS	0.01	3.4450e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6700e-004	6.1000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
tblVehicleEF	SBUS	0.11	0.10

tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.81	0.08
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tblVehicleEF	SBUS	1,088.21	1,081.75
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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	5.9440e-003	2.5700e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.06

tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.01	3.5250e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3700e-004	5.6000e-005
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tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.11	0.10
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tblVehicleEF	SBUS	0.81	0.08
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tblVehicleEF	SBUS	8.9680e-003	3.8560e-003
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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	8.5800e-003	3.6900e-003

tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
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tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.04
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tblVehicleEF	SBUS	1.34	0.53
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tblVehicleEF	UBUS	7.09	26.11
tblVehicleEF	UBUS	13.03	1.46
tblVehicleEF	UBUS	1,778.37	1,592.06
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tblVehicleEF	UBUS	3.44	0.31

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tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
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tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
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tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
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tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
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tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.15	0.08
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.15	26.11
tblVehicleEF	UBUS	11.17	1.24
tblVehicleEF	UBUS	1,778.37	1,592.06

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tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
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tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
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tblVehicleEF	UBUS	0.02	2.8210e-003
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tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
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tblVehicleEF	UBUS	0.96	0.07
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tblVehicleEF	UBUS	0.02	2.8210e-003
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tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
tblVehicleEF	UBUS	1.71	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.08	26.11

tblVehicleEF	UBUS	13.21	1.45
tblVehicleEF	UBUS	1,778.37	1,592.06
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tblVehicleEF	UBUS	3.42	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
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tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
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tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
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tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
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tblVehicleEF	UBUS	0.03	0.06
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tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
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tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.16	0.08
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_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_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	64.70	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_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
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	33.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	16.30	0.00
tblVehicleTrips	CW_TTP	6.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00

tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	36.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00
tblVehicleTrips	PR_TP	82.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	54.00	0.00
tblVehicleTrips	PR_TP	34.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00

tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	68,962,471.56	0.00
tblWater	IndoorWaterUseRate	94,065,586.13	0.00

tblWater	IndoorWaterUseRate	161,875,000.00	0.00
tblWater	IndoorWaterUseRate	185,000,000.00	0.00
tblWater	IndoorWaterUseRate	16,398,915.53	0.00
tblWater	IndoorWaterUseRate	7,561,272.30	0.00
tblWater	IndoorWaterUseRate	285,577,562.50	0.00
tblWater	IndoorWaterUseRate	63,464,250.00	0.00
tblWater	OutdoorWaterUseRate	7,387,184.37	0.00
tblWater	OutdoorWaterUseRate	42,267,321.28	0.00
tblWater	OutdoorWaterUseRate	57,653,101.17	0.00
tblWater	OutdoorWaterUseRate	10,050,948.23	0.00
tblWater	OutdoorWaterUseRate	233,853.78	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					
2021	0.9666	9.4989	6.0155	0.0223	2.9071	0.2864	3.1935	0.9081	0.2645	1.1725	0.0000	2,035.4940	2,035.4940	0.2755	0.0000	2,042.3822
2022	1.4541	12.3254	10.2275	0.0493	3.0042	0.1933	3.1975	0.8107	0.1806	0.9913	0.0000	4,553.7349	4,553.7349	0.3310	0.0000	4,562.0089
2023	2.2785	9.9441	10.2630	0.0503	3.2852	0.1702	3.4555	0.8854	0.1590	1.0444	0.0000	4,647.6966	4,647.6966	0.2941	0.0000	4,655.0490
2024	2.7131	6.0431	7.2775	0.0322	2.2279	0.1190	2.3469	0.5989	0.1110	0.7098	0.0000	2,960.8075	2,960.8075	0.2024	0.0000	2,965.8668
Maximum	**2.7131**	**12.3254**	**10.2630**	**0.0503**	**3.2852**	**0.2864**	**3.4555**	**0.9081**	**0.2645**	**1.1725**	**0.0000**	**4,647.6966**	**4,647.6966**	**0.3310**	**0.0000**	**4,655.0490**

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					
2021	0.4805	3.3842	6.5382	0.0223	1.7441	0.0223	1.7664	0.5188	0.0217	0.5405	0.0000	2,035.4932	2,035.4932	0.2755	0.0000	2,042.3814
2022	1.1590	8.8585	10.8228	0.0493	3.0042	0.0364	3.0406	0.8107	0.0347	0.8454	0.0000	4,553.7343	4,553.7343	0.3310	0.0000	4,562.0084
2023	2.0071	6.8812	10.9013	0.0503	3.2852	0.0304	3.3157	0.8854	0.0289	0.9143	0.0000	4,647.6960	4,647.6960	0.2941	0.0000	4,655.0484
2024	2.5232	3.9416	7.7978	0.0322	2.2279	0.0214	2.2493	0.5989	0.0204	0.6193	0.0000	2,960.8070	2,960.8070	0.2024	0.0000	2,965.8663
Maximum	**2.5232**	**8.8585**	**10.9013**	**0.0503**	**3.2852**	**0.0364**	**3.3157**	**0.8854**	**0.0347**	**0.9143**	**0.0000**	**4,647.6960**	**4,647.6960**	**0.3310**	**0.0000**	**4,655.0484**

	ROG	NOx	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	**16.76**	**39.00**	**-6.74**	**0.00**	**10.18**	**85.62**	**14.94**	**12.15**	**85.21**	**25.49**	**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	**1-4-2021**	**4-3-2021**	2.1299	0.1242
2	**4-4-2021**	**7-3-2021**	2.0240	0.1526
3	**7-4-2021**	**10-3-2021**	2.5985	0.9828
4	**10-4-2021**	**1-3-2022**	3.7619	2.6674
5	**1-4-2022**	**4-3-2022**	3.3925	2.4624
6	**4-4-2022**	**7-3-2022**	3.4455	2.5050
7	**7-4-2022**	**10-3-2022**	3.4829	2.5320
8	**10-4-2022**	**1-3-2023**	3.4460	2.4992

9	**1-4-2023**	**4-3-2023**	2.7497	1.9418
10	**4-4-2023**	**7-3-2023**	2.7963	1.9795
11	**7-4-2023**	**10-3-2023**	3.0131	2.1758
12	**10-4-2023**	**1-3-2024**	3.7605	2.8785
13	**1-4-2024**	**4-3-2024**	3.8210	2.8680
14	**4-4-2024**	**7-3-2024**	4.0408	2.9429
15	**7-4-2024**	**9-30-2024**	0.7105	0.5174
		Highest	4.0408	2.9429

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	17.4775	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	**17.4775**	**5.0000e-004**	**0.0549**	**0.0000**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1069**	**0.1069**	**2.8000e-004**	**0.0000**	**0.1138**

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	17.4775	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	**17.4775**	**5.0000e-004**	**0.0549**	**0.0000**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1069**	**0.1069**	**2.8000e-004**	**0.0000**	**0.1138**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/4/2021	4/16/2021	5	75	
2	Grading	Grading	4/17/2021	9/3/2021	5	100	
3	Building Construction	Building Construction	9/4/2021	7/19/2024	5	750	
4	Architectural Coating	Architectural Coating	9/16/2023	7/19/2024	5	220	
5	Paving	Paving	2/18/2024	7/19/2024	5	110	

Acres of Grading (Site Preparation Phase): 750

Acres of Grading (Grading Phase): 1000

Acres of Paving: 90.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,314,037; Non-Residential Outdoor: 2,104,679; Striped Parking Area: 235,501 (Architectural Coating – sqft)

OffRoad Equipment

Meridian South Campus (Construction - Mitigated) - Riverside-South Coast County, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,706.00	690.00	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	682.00	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 Site Preparation - 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					1.0752	0.0000	1.0752	0.4153	0.0000	0.4153	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2004	2.2795	0.8195	2.1400e-003		0.0992	0.0992		0.0913	0.0913	0.0000	187.9065	187.9065	0.0608	0.0000	189.4258
Total	**0.2004**	**2.2795**	**0.8195**	**2.1400e-003**	**1.0752**	**0.0992**	**1.1744**	**0.4153**	**0.0913**	**0.5066**	**0.0000**	**187.9065**	**187.9065**	**0.0608**	**0.0000**	**189.4258**

3.2 Site Preparation - 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	2.8900e-003	1.9500e-003	0.0213	7.0000e-005	7.4200e-003	4.0000e-005	7.4600e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.9997	5.9997	1.4000e-004	0.0000	6.0032
Total	**2.8900e-003**	**1.9500e-003**	**0.0213**	**7.0000e-005**	**7.4200e-003**	**4.0000e-005**	**7.4600e-003**	**1.9700e-003**	**4.0000e-005**	**2.0100e-003**	**0.0000**	**5.9997**	**5.9997**	**1.4000e-004**	**0.0000**	**6.0032**

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					0.4193	0.0000	0.4193	0.1620	0.0000	0.1620	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.1137	0.9619	2.1400e-003		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	187.9063	187.9063	0.0608	0.0000	189.4256
Total	**0.0262**	**0.1137**	**0.9619**	**2.1400e-003**	**0.4193**	**3.5000e-003**	**0.4228**	**0.1620**	**3.5000e-003**	**0.1655**	**0.0000**	**187.9063**	**187.9063**	**0.0608**	**0.0000**	**189.4256**

3.2 Site Preparation - 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	2.8900e-003	1.9500e-003	0.0213	7.0000e-005	7.4200e-003	4.0000e-005	7.4600e-003	1.9700e-003	4.0000e-005	2.0100e-003	0.0000	5.9997	5.9997	1.4000e-004	0.0000	6.0032
Total	**2.8900e-003**	**1.9500e-003**	**0.0213**	**7.0000e-005**	**7.4200e-003**	**4.0000e-005**	**7.4600e-003**	**1.9700e-003**	**4.0000e-005**	**2.0100e-003**	**0.0000**	**5.9997**	**5.9997**	**1.4000e-004**	**0.0000**	**6.0032**

3.3 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					0.8314	0.0000	0.8314	0.2228	0.0000	0.2228	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2459	2.8272	1.5614	3.5800e-003		0.1143	0.1143		0.1052	0.1052	0.0000	314.1566	314.1566	0.1016	0.0000	316.6967
Total	**0.2459**	**2.8272**	**1.5614**	**3.5800e-003**	**0.8314**	**0.1143**	**0.9457**	**0.2228**	**0.1052**	**0.3279**	**0.0000**	**314.1566**	**314.1566**	**0.1016**	**0.0000**	**316.6967**

3.3 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	4.2900e-003	2.8900e-003	0.0315	1.0000e-004	0.0110	7.0000e-005	0.0111	2.9200e-003	6.0000e-005	2.9800e-003	0.0000	8.8885	8.8885	2.1000e-004	0.0000	8.8936
Total	**4.2900e-003**	**2.8900e-003**	**0.0315**	**1.0000e-004**	**0.0110**	**7.0000e-005**	**0.0111**	**2.9200e-003**	**6.0000e-005**	**2.9800e-003**	**0.0000**	**8.8885**	**8.8885**	**2.1000e-004**	**0.0000**	**8.8936**

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					0.3242	0.0000	0.3242	0.0869	0.0000	0.0869	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0439	0.1904	1.7695	3.5800e-003		5.8600e-003	5.8600e-003		5.8600e-003	5.8600e-003	0.0000	314.1562	314.1562	0.1016	0.0000	316.6963
Total	**0.0439**	**0.1904**	**1.7695**	**3.5800e-003**	**0.3242**	**5.8600e-003**	**0.3301**	**0.0869**	**5.8600e-003**	**0.0927**	**0.0000**	**314.1562**	**314.1562**	**0.1016**	**0.0000**	**316.6963**

3.3 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	4.2900e-003	2.8900e-003	0.0315	1.0000e-004	0.0110	7.0000e-005	0.0111	2.9200e-003	6.0000e-005	2.9800e-003	0.0000	8.8885	8.8885	2.1000e-004	0.0000	8.8936
Total	**4.2900e-003**	**2.8900e-003**	**0.0315**	**1.0000e-004**	**0.0110**	**7.0000e-005**	**0.0111**	**2.9200e-003**	**6.0000e-005**	**2.9800e-003**	**0.0000**	**8.8885**	**8.8885**	**2.1000e-004**	**0.0000**	**8.8936**

3.4 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	0.1323	1.4436	0.7733	1.8300e-003		0.0627	0.0627		0.0586	0.0586	0.0000	158.6333	158.6333	0.0432	0.0000	159.7137
Total	**0.1323**	**1.4436**	**0.7733**	**1.8300e-003**		**0.0627**	**0.0627**		**0.0586**	**0.0586**	**0.0000**	**158.6333**	**158.6333**	**0.0432**	**0.0000**	**159.7137**

3.4 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	0.0700	2.7343	0.5261	7.4800e-003	0.1852	5.2300e-003	0.1904	0.0534	5.0000e-003	0.0584	0.0000	715.4514	715.4514	0.0546	0.0000	716.8158
Worker	0.3109	0.2095	2.2825	7.1300e-003	0.7969	4.7800e-003	0.8017	0.2116	4.4000e-003	0.2160	0.0000	644.4581	644.4581	0.0150	0.0000	644.8334
Total	**0.3808**	**2.9438**	**2.8086**	**0.0146**	**0.9821**	**0.0100**	**0.9921**	**0.2650**	**9.4000e-003**	**0.2744**	**0.0000**	**1,359.9095**	**1,359.9095**	**0.0696**	**0.0000**	**1,361.6492**

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	0.0224	0.1315	0.9456	1.8300e-003		2.8600e-003	2.8600e-003		2.8600e-003	2.8600e-003	0.0000	158.6331	158.6331	0.0432	0.0000	159.7135
Total	**0.0224**	**0.1315**	**0.9456**	**1.8300e-003**		**2.8600e-003**	**2.8600e-003**		**2.8600e-003**	**2.8600e-003**	**0.0000**	**158.6331**	**158.6331**	**0.0432**	**0.0000**	**159.7135**

3.4 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	0.0700	2.7343	0.5261	7.4800e-003	0.1852	5.2300e-003	0.1904	0.0534	5.0000e-003	0.0584	0.0000	715.4514	715.4514	0.0546	0.0000	716.8158
Worker	0.3109	0.2095	2.2825	7.1300e-003	0.7969	4.7800e-003	0.8017	0.2116	4.4000e-003	0.2160	0.0000	644.4581	644.4581	0.0150	0.0000	644.8334
Total	**0.3808**	**2.9438**	**2.8086**	**0.0146**	**0.9821**	**0.0100**	**0.9921**	**0.2650**	**9.4000e-003**	**0.2744**	**0.0000**	**1,359.9095**	**1,359.9095**	**0.0696**	**0.0000**	**1,361.6492**

3.4 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	0.3635	3.8693	2.2971	5.5900e-003		0.1657	0.1657		0.1546	0.1546	0.0000	484.7716	484.7716	0.1315	0.0000	488.0597
Total	**0.3635**	**3.8693**	**2.2971**	**5.5900e-003**		**0.1657**	**0.1657**		**0.1546**	**0.1546**	**0.0000**	**484.7716**	**484.7716**	**0.1315**	**0.0000**	**488.0597**

3.4 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	0.1997	7.8797	1.4988	0.0227	0.5665	0.0135	0.5800	0.1634	0.0129	0.1763	0.0000	2,169.6148	2,169.6148	0.1582	0.0000	2,173.5689
Worker	0.8909	0.5765	6.4316	0.0210	2.4377	0.0142	2.4519	0.6473	0.0131	0.6604	0.0000	1,899.3485	1,899.3485	0.0413	0.0000	1,900.3804
Total	**1.0906**	**8.4561**	**7.9304**	**0.0437**	**3.0042**	**0.0277**	**3.0318**	**0.8107**	**0.0260**	**0.8367**	**0.0000**	**4,068.9634**	**4,068.9634**	**0.1994**	**0.0000**	**4,073.9492**

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	0.0684	0.4024	2.8923	5.5900e-003		8.7400e-003	8.7400e-003		8.7400e-003	8.7400e-003	0.0000	484.7710	484.7710	0.1315	0.0000	488.0591
Total	**0.0684**	**0.4024**	**2.8923**	**5.5900e-003**		**8.7400e-003**	**8.7400e-003**		**8.7400e-003**	**8.7400e-003**	**0.0000**	**484.7710**	**484.7710**	**0.1315**	**0.0000**	**488.0591**

3.4 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	0.1997	7.8797	1.4988	0.0227	0.5665	0.0135	0.5800	0.1634	0.0129	0.1763	0.0000	2,169.6148	2,169.6148	0.1582	0.0000	2,173.5689
Worker	0.8909	0.5765	6.4316	0.0210	2.4377	0.0142	2.4519	0.6473	0.0131	0.6604	0.0000	1,899.3485	1,899.3485	0.0413	0.0000	1,900.3804
Total	**1.0906**	**8.4561**	**7.9304**	**0.0437**	**3.0042**	**0.0277**	**3.0318**	**0.8107**	**0.0260**	**0.8367**	**0.0000**	**4,068.9634**	**4,068.9634**	**0.1994**	**0.0000**	**4,073.9492**

3.4 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	0.3317	3.4066	2.2551	5.5900e-003		0.1452	0.1452		0.1355	0.1355	0.0000	484.5012	484.5012	0.1309	0.0000	487.7742
Total	**0.3317**	**3.4066**	**2.2551**	**5.5900e-003**		**0.1452**	**0.1452**		**0.1355**	**0.1355**	**0.0000**	**484.5012**	**484.5012**	**0.1309**	**0.0000**	**487.7742**

3.4 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	0.1528	5.8928	1.3053	0.0221	0.5665	6.0100e-003	0.5725	0.1634	5.7400e-003	0.1692	0.0000	2,112.4529	2,112.4529	0.1211	0.0000	2,115.4793
Worker	0.8367	0.5197	5.9283	0.0202	2.4377	0.0139	2.4515	0.6473	0.0128	0.6601	0.0000	1,827.2620	1,827.2620	0.0371	0.0000	1,828.1889
Total	**0.9895**	**6.4125**	**7.2337**	**0.0423**	**3.0041**	**0.0199**	**3.0240**	**0.8107**	**0.0185**	**0.8292**	**0.0000**	**3,939.7149**	**3,939.7149**	**0.1581**	**0.0000**	**3,943.6682**

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	0.0684	0.4024	2.8923	5.5900e-003		8.7400e-003	8.7400e-003		8.7400e-003	8.7400e-003	0.0000	484.5006	484.5006	0.1309	0.0000	487.7736
Total	**0.0684**	**0.4024**	**2.8923**	**5.5900e-003**		**8.7400e-003**	**8.7400e-003**		**8.7400e-003**	**8.7400e-003**	**0.0000**	**484.5006**	**484.5006**	**0.1309**	**0.0000**	**487.7736**

3.4 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	0.1528	5.8928	1.3053	0.0221	0.5665	6.0100e-003	0.5725	0.1634	5.7400e-003	0.1692	0.0000	2,112.4529	2,112.4529	0.1211	0.0000	2,115.4793
Worker	0.8367	0.5197	5.9283	0.0202	2.4377	0.0139	2.4515	0.6473	0.0128	0.6601	0.0000	1,827.2620	1,827.2620	0.0371	0.0000	1,828.1889
Total	**0.9895**	**6.4125**	**7.2337**	**0.0423**	**3.0041**	**0.0199**	**3.0240**	**0.8107**	**0.0185**	**0.8292**	**0.0000**	**3,939.7149**	**3,939.7149**	**0.1581**	**0.0000**	**3,943.6682**

3.4 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	0.1745	1.7635	1.2418	3.1200e-003		0.0732	0.0732		0.0683	0.0683	0.0000	270.2766	270.2766	0.0728	0.0000	272.0965
Total	**0.1745**	**1.7635**	**1.2418**	**3.1200e-003**		**0.0732**	**0.0732**		**0.0683**	**0.0683**	**0.0000**	**270.2766**	**270.2766**	**0.0728**	**0.0000**	**272.0965**

3.4 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	0.0836	3.2684	0.7036	0.0123	0.3159	3.3300e-003	0.3192	0.0911	3.1800e-003	0.0943	0.0000	1,173.6651	1,173.6651	0.0660	0.0000	1,175.3160
Worker	0.4405	0.2627	3.0949	0.0109	1.3595	7.6600e-003	1.3671	0.3610	7.0500e-003	0.3680	0.0000	982.6531	982.6531	0.0189	0.0000	983.1246
Total	**0.5241**	**3.5311**	**3.7985**	**0.0231**	**1.6754**	**0.0110**	**1.6864**	**0.4521**	**0.0102**	**0.4624**	**0.0000**	**2,156.3182**	**2,156.3182**	**0.0849**	**0.0000**	**2,158.4406**

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	0.0382	0.2244	1.6130	3.1200e-003		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	270.2763	270.2763	0.0728	0.0000	272.0962
Total	**0.0382**	**0.2244**	**1.6130**	**3.1200e-003**		**4.8800e-003**	**4.8800e-003**		**4.8800e-003**	**4.8800e-003**	**0.0000**	**270.2763**	**270.2763**	**0.0728**	**0.0000**	**272.0962**

3.4 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	0.0836	3.2684	0.7036	0.0123	0.3159	3.3300e-003	0.3192	0.0911	3.1800e-003	0.0943	0.0000	1,173.6651	1,173.6651	0.0660	0.0000	1,175.3160
Worker	0.4405	0.2627	3.0949	0.0109	1.3595	7.6600e-003	1.3671	0.3610	7.0500e-003	0.3680	0.0000	982.6531	982.6531	0.0189	0.0000	983.1246
Total	**0.5241**	**3.5311**	**3.7985**	**0.0231**	**1.6754**	**0.0110**	**1.6864**	**0.4521**	**0.0102**	**0.4624**	**0.0000**	**2,156.3182**	**2,156.3182**	**0.0849**	**0.0000**	**2,158.4406**

3.5 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	0.8512					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.0652	0.0906	1.5000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**0.8608**	**0.0652**	**0.0906**	**1.5000e-004**		**3.5400e-003**	**3.5400e-003**		**3.5400e-003**	**3.5400e-003**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

3.5 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	0.0965	0.0599	0.6836	2.3300e-003	0.2811	1.6000e-003	0.2827	0.0746	1.4700e-003	0.0761	0.0000	210.7143	210.7143	4.2800e-003	0.0000	210.8212
Total	**0.0965**	**0.0599**	**0.6836**	**2.3300e-003**	**0.2811**	**1.6000e-003**	**0.2827**	**0.0746**	**1.4700e-003**	**0.0761**	**0.0000**	**210.7143**	**210.7143**	**4.2800e-003**	**0.0000**	**210.8212**

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	0.8512					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	6.4400e-003	0.0916	1.5000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	12.7663	12.7663	7.6000e-004	0.0000	12.7854
Total	**0.8527**	**6.4400e-003**	**0.0916**	**1.5000e-004**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**12.7663**	**12.7663**	**7.6000e-004**	**0.0000**	**12.7854**

3.5 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	0.0965	0.0599	0.6836	2.3300e-003	0.2811	1.6000e-003	0.2827	0.0746	1.4700e-003	0.0761	0.0000	210.7143	210.7143	4.2800e-003	0.0000	210.8212
Total	**0.0965**	**0.0599**	**0.6836**	**2.3300e-003**	**0.2811**	**1.6000e-003**	**0.2827**	**0.0746**	**1.4700e-003**	**0.0761**	**0.0000**	**210.7143**	**210.7143**	**4.2800e-003**	**0.0000**	**210.8212**

3.5 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	1.6456					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1178	0.1750	2.9000e-004		5.8900e-003	5.8900e-003		5.8900e-003	5.8900e-003	0.0000	24.6815	24.6815	1.3900e-003	0.0000	24.7162
Total	**1.6631**	**0.1178**	**0.1750**	**2.9000e-004**		**5.8900e-003**	**5.8900e-003**		**5.8900e-003**	**5.8900e-003**	**0.0000**	**24.6815**	**24.6815**	**1.3900e-003**	**0.0000**	**24.7162**

3.5 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	0.1761	0.1050	1.2372	4.3400e-003	0.5435	3.0600e-003	0.5465	0.1443	2.8200e-003	0.1471	0.0000	392.8308	392.8308	7.5400e-003	0.0000	393.0193
Total	**0.1761**	**0.1050**	**1.2372**	**4.3400e-003**	**0.5435**	**3.0600e-003**	**0.5465**	**0.1443**	**2.8200e-003**	**0.1471**	**0.0000**	**392.8308**	**392.8308**	**7.5400e-003**	**0.0000**	**393.0193**

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	1.6456					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0125	0.1771	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.6814	24.6814	1.3900e-003	0.0000	24.7162
Total	**1.6485**	**0.0125**	**0.1771**	**2.9000e-004**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**	**0.0000**	**24.6814**	**24.6814**	**1.3900e-003**	**0.0000**	**24.7162**

3.5 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	0.1761	0.1050	1.2372	4.3400e-003	0.5435	3.0600e-003	0.5465	0.1443	2.8200e-003	0.1471	0.0000	392.8308	392.8308	7.5400e-003	0.0000	393.0193
Total	**0.1761**	**0.1050**	**1.2372**	**4.3400e-003**	**0.5435**	**3.0600e-003**	**0.5465**	**0.1443**	**2.8200e-003**	**0.1471**	**0.0000**	**392.8308**	**392.8308**	**7.5400e-003**	**0.0000**	**393.0193**

3.6 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	0.0544	0.5239	0.8044	1.2500e-003		0.0258	0.0258		0.0237	0.0237	0.0000	110.1459	110.1459	0.0356	0.0000	111.0365
Paving	0.1180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1724**	**0.5239**	**0.8044**	**1.2500e-003**		**0.0258**	**0.0258**		**0.0237**	**0.0237**	**0.0000**	**110.1459**	**110.1459**	**0.0356**	**0.0000**	**111.0365**

3.6 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	2.9400e-003	1.7500e-003	0.0206	7.0000e-005	9.0700e-003	5.0000e-005	9.1200e-003	2.4100e-003	5.0000e-005	2.4500e-003	0.0000	6.5545	6.5545	1.3000e-004	0.0000	6.5576
Total	**2.9400e-003**	**1.7500e-003**	**0.0206**	**7.0000e-005**	**9.0700e-003**	**5.0000e-005**	**9.1200e-003**	**2.4100e-003**	**5.0000e-005**	**2.4500e-003**	**0.0000**	**6.5545**	**6.5545**	**1.3000e-004**	**0.0000**	**6.5576**

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	0.0154	0.0669	0.9513	1.2500e-003		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	110.1458	110.1458	0.0356	0.0000	111.0364
Paving	0.1180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1335**	**0.0669**	**0.9513**	**1.2500e-003**		**2.0600e-003**	**2.0600e-003**		**2.0600e-003**	**2.0600e-003**	**0.0000**	**110.1458**	**110.1458**	**0.0356**	**0.0000**	**111.0364**

3.6 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	2.9400e-003	1.7500e-003	0.0206	7.0000e-005	9.0700e-003	5.0000e-005	9.1200e-003	2.4100e-003	5.0000e-005	2.4500e-003	0.0000	6.5545	6.5545	1.3000e-004	0.0000	6.5576
Total	**2.9400e-003**	**1.7500e-003**	**0.0206**	**7.0000e-005**	**9.0700e-003**	**5.0000e-005**	**9.1200e-003**	**2.4100e-003**	**5.0000e-005**	**2.4500e-003**	**0.0000**	**6.5545**	**6.5545**	**1.3000e-004**	**0.0000**	**6.5576**

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		
General Office Building	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Refrigerated Warehouse-Rail	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Supermarket	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
General Office Building	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Office Park	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Other Asphalt Surfaces	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Refrigerated Warehouse-No Rail	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Refrigerated Warehouse-Rail	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Regional Shopping Center	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Supermarket	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Unrefrigerated Warehouse-No Rail	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Unrefrigerated Warehouse-Rail	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840

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	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
General Office Building	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
Office 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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
General Office Building	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
Office 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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	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
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	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	17.4775	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Unmitigated	17.4775	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.0056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.4668					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0700e-003	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Total	**17.4775**	**5.0000e-004**	**0.0549**	**0.0000**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1069**	**0.1069**	**2.8000e-004**	**0.0000**	**0.1138**

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	2.0056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.4668					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0700e-003	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Total	**17.4775**	**5.0000e-004**	**0.0549**	**0.0000**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1069**	**0.1069**	**2.8000e-004**	**0.0000**	**0.1138**

7.0 Water Detail

7.1 Mitigation Measures Water

	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
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	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
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	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
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	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
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	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 5.2:

CALEEMOD ANNUAL OPERATIONAL (PASSENGER CARS) EMISSIONS MODEL OUTPUTS (PROPOSED PROJECT LAND)

Meridian South Campus - Vacant Land (Operations - Passenger Cars)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	388.01	1000sqft	8.91	388,011.00	0
Office Park	529.25	1000sqft	12.15	529,254.00	0
Refrigerated Warehouse-No Rail	700.00	1000sqft	16.07	700,000.00	0
Refrigerated Warehouse-Rail	800.00	1000sqft	18.37	800,000.00	0
Unrefrigerated Warehouse-No Rail	1,234.93	1000sqft	28.35	1,234,926.00	0
Unrefrigerated Warehouse-Rail	274.44	1000sqft	6.30	274,437.00	0
Other Asphalt Surfaces	90.10	Acre	90.10	3,924,756.00	0
City Park	6.20	Acre	6.20	270,072.00	0
Regional Shopping Center	221.39	1000sqft	5.08	221,394.00	0
Supermarket	61.34	1000sqft	1.41	61,336.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	482.54	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e Intensity Factor has been adjusted to reflect the 2024 RPS target.

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Meridian South Campus Traffic Impact Analysis by Urban Crossroads, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Water And Wastewater -

Solid Waste -

Energy Mitigation -

Waste Mitigation -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	120.00	0.00
tblEnergyUse	LightingElect	3.66	2.56
tblEnergyUse	LightingElect	4.24	2.97
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	2.37	0.82
tblEnergyUse	LightingElect	5.61	3.93
tblEnergyUse	LightingElect	8.14	5.70
tblEnergyUse	LightingElect	1.17	0.82

tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	NT24E	36.52	0.82
tblEnergyUse	NT24NG	48.51	0.03
tblEnergyUse	T24E	3.07	2.15
tblEnergyUse	T24E	3.07	2.15
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	1.06	0.26
tblEnergyUse	T24E	4.58	3.21
tblEnergyUse	T24E	6.07	4.25
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.47	2.43
tblEnergyUse	T24NG	2.92	2.04
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	3.25	1.40
tblEnergyUse	T24NG	1.92	1.34
tblEnergyUse	T24NG	12.65	8.86
tblEnergyUse	T24NG	2.00	1.40
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MH	8.4000e-004	0.00

tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblLandUse	LandUseSquareFeet	1,234,930.00	1,234,926.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	11.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	482.54
tblVehicleEF	HHD	0.94	0.03

tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.04	8.38
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.44	2.4500e-003
tblVehicleEF	HHD	6,063.49	1,353.52
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.19	6.79
tblVehicleEF	HHD	0.95	1.93
tblVehicleEF	HHD	4.7470e-003	2.6990e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	4.5410e-003	2.5820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.54	0.57
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006

tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.62	0.65
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.89	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	1.48	8.27
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.37	2.3220e-003
tblVehicleEF	HHD	6,423.73	1,336.26
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.75	6.46
tblVehicleEF	HHD	0.90	1.82
tblVehicleEF	HHD	4.0020e-003	2.3850e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	3.8290e-003	2.2820e-003

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.51	0.60
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.03	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.0000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.59	0.68
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.02	0.02
tblVehicleEF	HHD	0.03	8.7800e-004
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.81	8.50
tblVehicleEF	HHD	0.42	0.16
tblVehicleEF	HHD	1.45	2.4460e-003

tblVehicleEF	HHD	5,566.02	1,373.00
tblVehicleEF	HHD	1,397.92	1,223.81
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	16.43	7.22
tblVehicleEF	HHD	0.95	1.91
tblVehicleEF	HHD	5.7750e-003	3.0950e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	5.5250e-003	2.9620e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8580e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005
tblVehicleEF	HHD	0.58	0.52
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005

tblVehicleEF	HHD	0.67	0.59
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.0560e-003	1.7230e-003
tblVehicleEF	LDA	3.6940e-003	0.04
tblVehicleEF	LDA	0.48	0.55
tblVehicleEF	LDA	0.88	1.94
tblVehicleEF	LDA	226.07	242.29
tblVehicleEF	LDA	52.35	49.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.6660e-003	6.2520e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.2630e-003	2.3970e-003
tblVehicleEF	LDA	5.3800e-004	4.9400e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	0.01	9.1010e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4590e-003	1.9630e-003
tblVehicleEF	LDA	3.2010e-003	0.04
tblVehicleEF	LDA	0.59	0.67
tblVehicleEF	LDA	0.77	1.71
tblVehicleEF	LDA	246.14	263.37
tblVehicleEF	LDA	52.35	49.48
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	8.6630e-003	7.0570e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.4650e-003	2.6050e-003
tblVehicleEF	LDA	5.3600e-004	4.9000e-004
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19

tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.9510e-003	1.6620e-003
tblVehicleEF	LDA	3.7940e-003	0.04
tblVehicleEF	LDA	0.45	0.51
tblVehicleEF	LDA	0.90	1.98
tblVehicleEF	LDA	220.50	236.51
tblVehicleEF	LDA	52.35	49.99
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.4050e-003	6.0400e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2070e-003	2.3400e-003
tblVehicleEF	LDA	5.3800e-004	4.9500e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7910e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	8.3780e-003	5.2640e-003

tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.09	1.16
tblVehicleEF	LDT1	2.45	2.17
tblVehicleEF	LDT1	285.86	290.48
tblVehicleEF	LDT1	66.26	60.86
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8710e-003	2.8740e-003
tblVehicleEF	LDT1	7.0500e-004	6.0200e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	9.4770e-003	5.9510e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.31	1.40

tblVehicleEF	LDT1	2.16	1.92
tblVehicleEF	LDT1	310.62	312.92
tblVehicleEF	LDT1	66.26	60.33
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.14	0.28
tblVehicleEF	LDT1	3.1220e-003	3.0970e-003
tblVehicleEF	LDT1	7.0000e-004	5.9700e-004
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	8.0590e-003	5.0610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.02	1.08
tblVehicleEF	LDT1	2.50	2.22
tblVehicleEF	LDT1	278.41	283.64

tblVehicleEF	LDT1	66.26	60.97
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.7960e-003	2.8070e-003
tblVehicleEF	LDT1	7.0600e-004	6.0300e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	4.4370e-003	3.0680e-003
tblVehicleEF	LDT2	5.1650e-003	0.06
tblVehicleEF	LDT2	0.65	0.78
tblVehicleEF	LDT2	1.18	2.47
tblVehicleEF	LDT2	319.11	303.53
tblVehicleEF	LDT2	73.38	63.90
tblVehicleEF	LDT2	0.06	0.06

tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1960e-003	3.0030e-003
tblVehicleEF	LDT2	7.5300e-004	6.3200e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	5.0280e-003	3.4890e-003
tblVehicleEF	LDT2	4.4840e-003	0.05
tblVehicleEF	LDT2	0.80	0.96
tblVehicleEF	LDT2	1.04	2.19
tblVehicleEF	LDT2	347.22	324.77
tblVehicleEF	LDT2	73.38	63.35
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003

tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	3.4790e-003	3.2130e-003
tblVehicleEF	LDT2	7.5100e-004	6.2700e-004
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.25
tblVehicleEF	LDT2	4.2650e-003	2.9430e-003
tblVehicleEF	LDT2	5.3220e-003	0.06
tblVehicleEF	LDT2	0.61	0.73
tblVehicleEF	LDT2	1.21	2.53
tblVehicleEF	LDT2	310.62	297.05
tblVehicleEF	LDT2	73.38	64.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1100e-003	2.9390e-003
tblVehicleEF	LDT2	7.5400e-004	6.3400e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LHD1	4.8080e-003	4.5140e-003
tblVehicleEF	LHD1	7.7330e-003	3.9530e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.87
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.76	1.18
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5250e-003
tblVehicleEF	LHD1	7.8700e-003	4.0100e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17

tblVehicleEF	LHD1	0.74	0.54
tblVehicleEF	LHD1	1.92	0.83
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.08
tblVehicleEF	LHD1	28.79	9.95
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.65	1.11
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7750e-003	5.9720e-003
tblVehicleEF	LHD1	3.2400e-004	9.8000e-005
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5130e-003
tblVehicleEF	LHD1	7.7230e-003	3.9460e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.88
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.74	1.16
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.1640e-003	2.9170e-003
tblVehicleEF	LHD2	3.1560e-003	3.0330e-003
tblVehicleEF	LHD2	6.0040e-003	7.4140e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.98	0.50
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.10	1.31
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9240e-003
tblVehicleEF	LHD2	3.1850e-003	3.0520e-003
tblVehicleEF	LHD2	5.8080e-003	7.1660e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41

tblVehicleEF	LHD2	0.94	0.48
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.66
tblVehicleEF	LHD2	22.65	6.85
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	1.23
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4300e-004	6.8000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9160e-003
tblVehicleEF	LHD2	3.1490e-003	3.0280e-003
tblVehicleEF	LHD2	6.0380e-003	7.4680e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.99	0.51
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.09	1.29
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.52	18.66
tblVehicleEF	MCY	9.72	8.60
tblVehicleEF	MCY	167.91	208.37
tblVehicleEF	MCY	44.95	59.78
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.54	1.71

tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.0440e-003	2.0620e-003
tblVehicleEF	MCY	6.6800e-004	5.9200e-004
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.21	19.32
tblVehicleEF	MCY	9.09	8.01
tblVehicleEF	MCY	167.91	209.35
tblVehicleEF	MCY	44.95	58.19
tblVehicleEF	MCY	0.97	0.97
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.10	2.11
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.0540e-003	2.0720e-003

tblVehicleEF	MCY	6.5200e-004	5.7600e-004
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.09	18.23
tblVehicleEF	MCY	9.70	8.56
tblVehicleEF	MCY	167.91	207.67
tblVehicleEF	MCY	44.95	59.73
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.6800e-004	5.9100e-004
tblVehicleEF	MCY	1.58	1.59

tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MDV	9.0280e-003	3.8660e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.88
tblVehicleEF	MDV	2.38	2.80
tblVehicleEF	MDV	444.64	380.99
tblVehicleEF	MDV	101.02	79.79
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.18	0.34
tblVehicleEF	MDV	4.4520e-003	3.7660e-003
tblVehicleEF	MDV	1.0520e-003	7.9000e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10

tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.37
tblVehicleEF	MDV	0.01	4.4030e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.31	1.08
tblVehicleEF	MDV	2.10	2.47
tblVehicleEF	MDV	482.68	403.42
tblVehicleEF	MDV	101.02	79.12
tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.15	0.29
tblVehicleEF	MDV	4.8360e-003	3.9880e-003
tblVehicleEF	MDV	1.0460e-003	7.8300e-004
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46

tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	8.6740e-003	3.7110e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.00	0.82
tblVehicleEF	MDV	2.43	2.87
tblVehicleEF	MDV	433.14	374.20
tblVehicleEF	MDV	101.02	79.93
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	4.3370e-003	3.6990e-003
tblVehicleEF	MDV	1.0530e-003	7.9100e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MH	0.02	3.1780e-003

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tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.95	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.38	4.04
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.1780e-003

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tblVehicleEF	MH	1.75	0.32
tblVehicleEF	MH	4.61	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.28	3.81
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	9.8840e-003	8.7110e-003
tblVehicleEF	MH	6.5000e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.1780e-003

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.99	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.37	4.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MHD	0.02	3.2360e-003

tblVehicleEF	MHD	2.3370e-003	1.1890e-003
tblVehicleEF	MHD	0.04	8.2020e-003
tblVehicleEF	MHD	0.32	0.35
tblVehicleEF	MHD	0.19	0.16
tblVehicleEF	MHD	4.66	0.92
tblVehicleEF	MHD	149.14	67.57
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.28
tblVehicleEF	MHD	0.41	0.38
tblVehicleEF	MHD	0.47	0.90
tblVehicleEF	MHD	1.1800e-004	3.6800e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	1.1300e-004	3.5200e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.4340e-003	6.4100e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2000e-004	8.2000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	0.02	3.0810e-003
tblVehicleEF	MHD	2.3650e-003	1.2070e-003
tblVehicleEF	MHD	0.04	7.9360e-003
tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.20	0.16
tblVehicleEF	MHD	4.45	0.88
tblVehicleEF	MHD	157.97	67.48
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.21
tblVehicleEF	MHD	0.42	0.38
tblVehicleEF	MHD	0.44	0.85
tblVehicleEF	MHD	1.0000e-004	3.1300e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	9.5000e-005	3.0000e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004

tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.28	0.04
tblVehicleEF	MHD	1.5170e-003	6.4000e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.30	0.05
tblVehicleEF	MHD	0.02	3.4620e-003
tblVehicleEF	MHD	2.3160e-003	1.1760e-003
tblVehicleEF	MHD	0.04	8.2760e-003
tblVehicleEF	MHD	0.44	0.42
tblVehicleEF	MHD	0.19	0.15
tblVehicleEF	MHD	4.73	0.93
tblVehicleEF	MHD	136.93	67.69
tblVehicleEF	MHD	1,057.85	926.25
tblVehicleEF	MHD	53.85	8.31
tblVehicleEF	MHD	0.39	0.40
tblVehicleEF	MHD	0.46	0.89
tblVehicleEF	MHD	1.4400e-004	4.4400e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005

tblVehicleEF	MHD	1.3800e-004	4.2500e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.3190e-003	6.4200e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2100e-004	8.2000e-005
tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.32	0.05
tblVehicleEF	OBUS	0.01	8.5080e-003
tblVehicleEF	OBUS	5.0590e-003	4.2530e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.25	2.37
tblVehicleEF	OBUS	68.87	68.87

tblVehicleEF	OBUS	1,088.96	1,309.02
tblVehicleEF	OBUS	69.21	19.83
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.36	0.82
tblVehicleEF	OBUS	1.2000e-005	8.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	8.0000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	6.6900e-004	6.5700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8400e-004	1.9600e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.36	0.13

tblVehicleEF	OBUS	0.01	8.5790e-003
tblVehicleEF	OBUS	5.1570e-003	4.3450e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.35	0.53
tblVehicleEF	OBUS	4.91	2.22
tblVehicleEF	OBUS	71.95	68.13
tblVehicleEF	OBUS	1,088.96	1,309.04
tblVehicleEF	OBUS	69.21	19.57
tblVehicleEF	OBUS	0.14	0.24
tblVehicleEF	OBUS	0.33	0.76
tblVehicleEF	OBUS	1.0000e-005	7.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	7.1000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9900e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7800e-004	1.9400e-004

tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	0.01	8.4380e-003
tblVehicleEF	OBUS	5.0420e-003	4.2250e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.51
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.30	2.40
tblVehicleEF	OBUS	64.61	69.89
tblVehicleEF	OBUS	1,088.96	1,309.01
tblVehicleEF	OBUS	69.21	19.87
tblVehicleEF	OBUS	0.13	0.27
tblVehicleEF	OBUS	0.36	0.81
tblVehicleEF	OBUS	1.5000e-005	9.6000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.4000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.04

tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	6.2900e-004	6.6700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9700e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	9.0390e-003	5.9240e-003
tblVehicleEF	SBUS	0.06	7.2340e-003
tblVehicleEF	SBUS	7.86	3.17
tblVehicleEF	SBUS	0.55	0.48
tblVehicleEF	SBUS	6.35	0.94
tblVehicleEF	SBUS	1,119.53	360.62
tblVehicleEF	SBUS	1,088.21	1,081.74
tblVehicleEF	SBUS	55.65	6.13
tblVehicleEF	SBUS	8.21	3.27
tblVehicleEF	SBUS	3.64	4.25
tblVehicleEF	SBUS	7.3700e-003	3.1780e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	7.0510e-003	3.0400e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.35	0.04
tblVehicleEF	SBUS	0.01	3.4450e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6700e-004	6.1000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	9.1700e-003	5.9920e-003
tblVehicleEF	SBUS	0.05	6.0650e-003
tblVehicleEF	SBUS	7.76	3.13

tblVehicleEF	SBUS	0.56	0.49
tblVehicleEF	SBUS	4.60	0.68
tblVehicleEF	SBUS	1,169.74	369.09
tblVehicleEF	SBUS	1,088.21	1,081.75
tblVehicleEF	SBUS	55.65	5.70
tblVehicleEF	SBUS	8.48	3.34
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tblVehicleEF	SBUS	6.2130e-003	2.6870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	5.9440e-003	2.5700e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.01	3.5250e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3700e-004	5.6000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.01

tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.32	0.04
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	8.9970e-003	5.9160e-003
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tblVehicleEF	SBUS	0.55	0.48
tblVehicleEF	SBUS	6.70	0.98
tblVehicleEF	SBUS	1,050.20	348.92
tblVehicleEF	SBUS	1,088.21	1,081.74
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tblVehicleEF	SBUS	8.9680e-003	3.8560e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	8.5800e-003	3.6900e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37

tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.01	3.3350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.7300e-004	6.1000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.09	26.11
tblVehicleEF	UBUS	13.03	1.46
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	17.32
tblVehicleEF	UBUS	3.44	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003

tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
tblVehicleEF	UBUS	1.7600e-003	1.7100e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.15	0.08
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.15	26.11
tblVehicleEF	UBUS	11.17	1.24
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	16.95
tblVehicleEF	UBUS	3.21	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004

tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
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tblVehicleEF	UBUS	0.02	2.8210e-003
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tblVehicleEF	UBUS	0.02	2.8210e-003
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tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
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tblVehicleEF	UBUS	13.21	1.45
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tblVehicleEF	UBUS	3.42	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02

tblVehicleEF	UBUS	0.04	2.5920e-003
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tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
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tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
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tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.06	0.07
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tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.03	0.06
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tblVehicleTrips	CW_TTP	59.00	100.00

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tblVehicleTrips	PB_TP	6.00	10.00
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tblVehicleTrips	PB_TP	36.00	42.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PB_TP	3.00	10.00
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tblVehicleTrips	PR_TP	54.00	59.00
tblVehicleTrips	PR_TP	34.00	58.00
tblVehicleTrips	PR_TP	92.00	90.00

tblVehicleTrips	PR_TP	92.00	90.00
tblVehicleTrips	ST_TR	22.75	1.96
tblVehicleTrips	ST_TR	2.46	2.21
tblVehicleTrips	ST_TR	1.64	2.21
tblVehicleTrips	ST_TR	1.68	1.43
tblVehicleTrips	ST_TR	1.68	0.59
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tblVehicleTrips	ST_TR	1.68	0.09
tblVehicleTrips	ST_TR	1.68	0.09
tblVehicleTrips	SU_TR	16.74	2.19
tblVehicleTrips	SU_TR	1.05	0.70
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tblVehicleTrips	SU_TR	1.68	1.43
tblVehicleTrips	SU_TR	1.68	0.55
tblVehicleTrips	SU_TR	25.24	21.10
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tblVehicleTrips	SU_TR	1.68	0.04
tblVehicleTrips	SU_TR	1.68	0.04
tblVehicleTrips	WD_TR	1.89	15.16
tblVehicleTrips	WD_TR	11.03	10.19
tblVehicleTrips	WD_TR	11.42	10.09
tblVehicleTrips	WD_TR	1.68	1.43
tblVehicleTrips	WD_TR	1.68	0.88
tblVehicleTrips	WD_TR	42.70	46.62
tblVehicleTrips	WD_TR	102.24	90.68
tblVehicleTrips	WD_TR	1.68	1.02

tblVehicleTrips	WD_TR	1.68	1.10

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	17.4774	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Energy	0.2275	2.0681	1.7372	0.0124		0.1572	0.1572		0.1572	0.1572	0.0000	11,610.2748	11,610.2748	0.6056	0.1577	11,672.3934
Mobile	9.4010	36.1385	84.0122	0.2824	27.5538	0.2648	27.8186	7.3622	0.2493	7.6115	0.0000	26,329.6907	26,329.6907	0.9929	0.0000	26,354.5141
Offroad	0.2195	1.9534	1.5082	6.3600e-003		0.0714	0.0714		0.0657	0.0657	0.0000	558.4649	558.4649	0.1806	0.0000	562.9804
Waste						0.0000	0.0000		0.0000	0.0000	864.9039	0.0000	864.9039	51.1144	0.0000	2,142.7628
Water						0.0000	0.0000		0.0000	0.0000	280.1050	2,802.2225	3,082.3275	28.9379	0.7142	4,018.5922
Total	**27.3255**	**40.1605**	**87.3125**	**0.3011**	**27.5538**	**0.4936**	**28.0473**	**7.3622**	**0.4724**	**7.8346**	**1,145.0089**	**41,300.7597**	**42,445.7686**	**81.8317**	**0.8718**	**44,751.3567**

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	17.4774	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Energy	0.2275	2.0681	1.7372	0.0124		0.1572	0.1572		0.1572	0.1572	0.0000	8,840.1594	8,840.1594	0.4391	0.1232	8,887.8517
Mobile	9.4010	36.1385	84.0122	0.2824	27.5538	0.2648	27.8186	7.3622	0.2493	7.6115	0.0000	26,329.6907	26,329.6907	0.9929	0.0000	26,354.5141
Offroad	0.2195	1.9534	1.5082	6.3600e-003		0.0714	0.0714		0.0657	0.0657	0.0000	558.4649	558.4649	0.1806	0.0000	562.9804
Waste						0.0000	0.0000		0.0000	0.0000	216.2260	0.0000	216.2260	12.7786	0.0000	535.6907
Water						0.0000	0.0000		0.0000	0.0000	280.1050	2,802.2225	3,082.3275	28.9379	0.7142	4,018.5922
Total	**27.3255**	**40.1605**	**87.3125**	**0.3011**	**27.5538**	**0.4936**	**28.0473**	**7.3622**	**0.4724**	**7.8346**	**496.3310**	**38,530.6443**	**39,026.9753**	**43.3294**	**0.8374**	**40,359.7429**

	ROG	NOx	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**	**56.65**	**6.71**	**8.05**	**47.05**	**3.95**	**9.81**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2020	6/30/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 90.1

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
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	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 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	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**

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 Site Preparation - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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 Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	9.4010	36.1385	84.0122	0.2824	27.5538	0.2648	27.8186	7.3622	0.2493	7.6115	0.0000	26,329.6907	26,329.6907	0.9929	0.0000	26,354.5141
Unmitigated	9.4010	36.1385	84.0122	0.2824	27.5538	0.2648	27.8186	7.3622	0.2493	7.6115	0.0000	26,329.6907	26,329.6907	0.9929	0.0000	26,354.5141

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	94.00	12.15	13.58	251,307	251,307
General Office Building	3,953.99	857.50	271.61	10,594,622	10,594,622
Office Park	5,342.03	1,169.65	370.48	14,321,264	14,321,264
Other Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	1,000.02	1,000.02	1000.02	5,441,909	5,441,909
Refrigerated Warehouse-Rail	706.00	474.00	438.72	3,453,771	3,453,771
Regional Shopping Center	10,322.01	10,210.69	4671.41	19,422,827	19,422,827
Supermarket	5,562.00	10,894.50	10210.60	12,865,045	12,865,045
Unrefrigerated Warehouse-No Rail	1,261.97	116.95	46.80	5,032,581	5,032,581
Unrefrigerated Warehouse-Rail	301.99	25.91	10.37	1,202,041	1,202,041
Total	28,544.00	24,761.37	17,033.60	72,585,366	72,585,366

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	90	0	10
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	90	0	10
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	90	0	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	90	0	10
Refrigerated Warehouse-Rail	16.60	8.40	6.90	100.00	0.00	0.00	90	0	10
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	59	0	41
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	58	0	42
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	90	0	10
Unrefrigerated Warehouse-Rail	16.60	8.40	6.90	100.00	0.00	0.00	90	0	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
General Office Building	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Office Park	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Other Asphalt Surfaces	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Refrigerated Warehouse-No Rail	0.623100	0.040400	0.212100	0.124400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Refrigerated Warehouse-Rail	0.623100	0.040400	0.212100	0.124400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Regional Shopping Center	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Supermarket	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Unrefrigerated Warehouse-No Rail	0.623100	0.040400	0.212100	0.124400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.623100	0.040400	0.212100	0.124400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable 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	6,588.7463	6,588.7463	0.3960	0.0819	6,623.0596
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,358.8617	9,358.8617	0.5625	0.1164	9,407.6013
NaturalGas Mitigated	0.2275	2.0681	1.7372	0.0124		0.1572	0.1572		0.1572	0.1572	0.0000	2,251.4131	2,251.4131	0.0432	0.0413	2,264.7921
NaturalGas Unmitigated	0.2275	2.0681	1.7372	0.0124		0.1572	0.1572		0.1572	0.1572	0.0000	2,251.4131	2,251.4131	0.0432	0.0413	2,264.7921

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
General Office Building	942867	5.0800e-003	0.0462	0.0388	2.8000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	50.3150	50.3150	9.6000e-004	9.2000e-004	50.6140
Office Park	1.07968e+006	5.8200e-003	0.0529	0.0445	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.6157	57.6157	1.1000e-003	1.0600e-003	57.9581
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	3.5553e+007	0.1917	1.7428	1.4640	0.0105		0.1325	0.1325		0.1325	0.1325	0.0000	1,897.2435	1,897.2435	0.0364	0.0348	1,908.5178
Refrigerated Warehouse-Rail	1.144e+006	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003	0.0000	61.0482	61.0482	1.1700e-003	1.1200e-003	61.4110
Regional Shopping Center	363086	1.9600e-003	0.0178	0.0150	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3757	19.3757	3.7000e-004	3.6000e-004	19.4908
Supermarket	948868	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	50.6352	50.6352	9.7000e-004	9.3000e-004	50.9361
Unrefrigerated Warehouse-No Rail	1.76594e+006	9.5200e-003	0.0866	0.0727	5.2000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003	0.0000	94.2375	94.2375	1.8100e-003	1.7300e-003	94.7975
Unrefrigerated Warehouse-Rail	392445	2.1200e-003	0.0192	0.0162	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	20.9424	20.9424	4.0000e-004	3.8000e-004	21.0668
Total		**0.2275**	**2.0681**	**1.7372**	**0.0124**		**0.1572**	**0.1572**		**0.1572**	**0.1572**	**0.0000**	**2,251.4131**	**2,251.4131**	**0.0431**	**0.0413**	**2,264.7921**

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
General Office Building	942867	5.0800e-003	0.0462	0.0388	2.8000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	50.3150	50.3150	9.6000e-004	9.2000e-004	50.6140
Office Park	1.07968e+006	5.8200e-003	0.0529	0.0445	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.6157	57.6157	1.1000e-003	1.0600e-003	57.9581
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	3.5553e+007	0.1917	1.7428	1.4640	0.0105		0.1325	0.1325		0.1325	0.1325	0.0000	1,897.2435	1,897.2435	0.0364	0.0348	1,908.5178
Refrigerated Warehouse-Rail	1.144e+006	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003	0.0000	61.0482	61.0482	1.1700e-003	1.1200e-003	61.4110
Regional Shopping Center	363086	1.9600e-003	0.0178	0.0150	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3757	19.3757	3.7000e-004	3.6000e-004	19.4908
Supermarket	948868	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	50.6352	50.6352	9.7000e-004	9.3000e-004	50.9361
Unrefrigerated Warehouse-No Rail	1.76594e+006	9.5200e-003	0.0866	0.0727	5.2000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003	0.0000	94.2375	94.2375	1.8100e-003	1.7300e-003	94.7975
Unrefrigerated Warehouse-Rail	392445	2.1200e-003	0.0192	0.0162	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	20.9424	20.9424	4.0000e-004	3.8000e-004	21.0668
Total		**0.2275**	**2.0681**	**1.7372**	**0.0124**		**0.1572**	**0.1572**		**0.1572**	**0.1572**	**0.0000**	**2,251.4131**	**2,251.4131**	**0.0431**	**0.0413**	**2,264.7921**

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
General Office Building	2.91008e+006	636.9486	0.0383	7.9200e-003	640.2657
Office Park	4.08584e+006	894.2944	0.0538	0.0111	898.9518
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.7244e+007	5,963.0703	0.3584	0.0742	5,994.1252
Refrigerated Warehouse-Rail	1.52e+006	332.6922	0.0200	4.1400e-003	334.4248
Regional Shopping Center	2.12095e+006	464.2270	0.0279	5.7700e-003	466.6447
Supermarket	2.00998e+006	439.9375	0.0264	5.4700e-003	442.2286
Unrefrigerated Warehouse-No Rail	2.34636e+006	513.5628	0.0309	6.3900e-003	516.2374
Unrefrigerated Warehouse-Rail	521430	114.1288	6.8600e-003	1.4200e-003	114.7232
Total		**9,358.8617**	**0.5625**	**0.1164**	**9,407.6013**

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
General Office Building	1.73208e+006	379.1118	0.0228	4.7100e-003	381.0861
Office Park	2.32554e+006	509.0064	0.0306	6.3300e-003	511.6573
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.1098e+007	4,617.8556	0.2775	0.0574	4,641.9047
Refrigerated Warehouse-Rail	822400	180.0040	0.0108	2.2400e-003	180.9414
Regional Shopping Center	1.17472e+006	257.1178	0.0155	3.2000e-003	258.4568
Supermarket	1.39822e+006	306.0365	0.0184	3.8100e-003	307.6303
Unrefrigerated Warehouse-No Rail	1.2695e+006	277.8645	0.0167	3.4600e-003	279.3116
Unrefrigerated Warehouse-Rail	282121	61.7497	3.7100e-003	7.7000e-004	62.0713
Total		**6,588.7463**	**0.3960**	**0.0819**	**6,623.0596**

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	17.4774	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Unmitigated	17.4774	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.0056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.4668					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0700e-003	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Total	**17.4774**	**5.0000e-004**	**0.0549**	**0.0000**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1069**	**0.1069**	**2.8000e-004**	**0.0000**	**0.1138**

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	2.0056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.4668					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0700e-003	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Total	**17.4774**	**5.0000e-004**	**0.0549**	**0.0000**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1069**	**0.1069**	**2.8000e-004**	**0.0000**	**0.1138**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,082.3275	28.9379	0.7142	4,018.5922
Unmitigated	3,082.3275	28.9379	0.7142	4,018.5922

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 7.38718	17.9636	1.0800e-003	2.2000e-004	18.0571
General Office Building	68.9625 / 42.2673	321.2032	2.2651	0.0568	394.7525
Office Park	94.0656 / 57.6531	438.1247	3.0897	0.0775	538.4468
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	161.875 / 0	512.6977	5.3024	0.1303	684.0828
Refrigerated Warehouse-Rail	185 / 0	585.9402	6.0599	0.1489	781.8089
Regional Shopping Center	16.3989 / 10.0509	76.3804	0.5386	0.0135	93.8701
Supermarket	7.56127 / 0.233854	24.5171	0.2477	6.0900e-003	32.5255
Unrefrigerated Warehouse-No Rail	285.578 / 0	904.4939	9.3545	0.2298	1,206.8491
Unrefrigerated Warehouse-Rail	63.4643 / 0	201.0068	2.0789	0.0511	268.1995
Total		**3,082.3275**	**28.9379**	**0.7141**	**4,018.5922**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 7.38718	17.9636	1.0800e-003	2.2000e-004	18.0571
General Office Building	68.9625 / 42.2673	321.2032	2.2651	0.0568	394.7525
Office Park	94.0656 / 57.6531	438.1247	3.0897	0.0775	538.4468
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	161.875 / 0	512.6977	5.3024	0.1303	684.0828
Refrigerated Warehouse-Rail	185 / 0	585.9402	6.0599	0.1489	781.8089
Regional Shopping Center	16.3989 / 10.0509	76.3804	0.5386	0.0135	93.8701
Supermarket	7.56127 / 0.233854	24.5171	0.2477	6.0900e-003	32.5255
Unrefrigerated Warehouse-No Rail	285.578 / 0	904.4939	9.3545	0.2298	1,206.8491
Unrefrigerated Warehouse-Rail	63.4643 / 0	201.0068	2.0789	0.0511	268.1995
Total		**3,082.3275**	**28.9379**	**0.7141**	**4,018.5922**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	216.2260	12.7786	0.0000	535.6907
Unmitigated	864.9039	51.1144	0.0000	2,142.7628

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.53	0.1076	6.3600e-003	0.0000	0.2665
General Office Building	360.85	73.2493	4.3289	0.0000	181.4720
Office Park	492.2	99.9122	5.9046	0.0000	247.5281
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	658	133.5681	7.8937	0.0000	330.9092
Refrigerated Warehouse-Rail	752	152.6492	9.0213	0.0000	378.1819
Regional Shopping Center	232.46	47.1873	2.7887	0.0000	116.9045
Supermarket	345.96	70.2268	4.1503	0.0000	173.9838
Unrefrigerated Warehouse-No Rail	1160.83	235.6380	13.9258	0.0000	583.7832
Unrefrigerated Warehouse-Rail	257.97	52.3656	3.0947	0.0000	129.7335
Total		**864.9039**	**51.1144**	**0.0000**	**2,142.7628**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.1325	0.0269	1.5900e-003	0.0000	0.0666
General Office Building	90.2125	18.3123	1.0822	0.0000	45.3680
Office Park	123.05	24.9780	1.4762	0.0000	61.8820
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	164.5	33.3920	1.9734	0.0000	82.7273
Refrigerated Warehouse-Rail	188	38.1623	2.2553	0.0000	94.5455
Regional Shopping Center	58.115	11.7968	0.6972	0.0000	29.2261
Supermarket	86.49	17.5567	1.0376	0.0000	43.4960
Unrefrigerated Warehouse-No Rail	290.207	58.9095	3.4815	0.0000	145.9458
Unrefrigerated Warehouse-Rail	64.4925	13.0914	0.7737	0.0000	32.4334
Total		**216.2260**	**12.7786**	**0.0000**	**535.6907**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	11	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.2195	1.9534	1.5082	6.3600e-003		0.0714	0.0714		0.0657	0.0657	0.0000	558.4649	558.4649	0.1806	0.0000	562.9804
Total	**0.2195**	**1.9534**	**1.5082**	**6.3600e-003**		**0.0714**	**0.0714**		**0.0657**	**0.0657**	**0.0000**	**558.4649**	**558.4649**	**0.1806**	**0.0000**	**562.9804**

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 5.3:

CALEEMOD ANNUAL OPERATIONAL (TRUCKS) EMISSIONS MODEL OUTPUTS (PROPOSED PROJECT LAND)

Meridian South Campus - Vacant Land (Operations - Trucks)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	388.01	1000sqft	8.91	388,011.00	0
Office Park	529.25	1000sqft	12.15	529,254.00	0
Refrigerated Warehouse-No Rail	700.00	1000sqft	16.07	700,000.00	0
Refrigerated Warehouse-Rail	800.00	1000sqft	18.37	800,000.00	0
Unrefrigerated Warehouse-No Rail	1,234.93	1000sqft	28.35	1,234,926.00	0
Unrefrigerated Warehouse-Rail	274.44	1000sqft	6.30	274,437.00	0
Other Asphalt Surfaces	90.10	Acre	90.10	3,924,756.00	0
City Park	6.20	Acre	6.20	270,072.00	0
Regional Shopping Center	221.39	1000sqft	5.08	221,394.00	0
Supermarket	61.34	1000sqft	1.41	61,336.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	482.54	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e Intensity Factor has been adjusted to reflect the 2024 RPS target.

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Meridian South Campus Traffic Impact Analysis by Urban Crossroads, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Water And Wastewater -

Solid Waste -

Energy Mitigation -

Waste Mitigation -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	120.00	0.00
tblEnergyUse	LightingElect	3.66	2.56
tblEnergyUse	LightingElect	4.24	2.97
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	2.37	0.82
tblEnergyUse	LightingElect	5.61	3.93
tblEnergyUse	LightingElect	8.14	5.70
tblEnergyUse	LightingElect	1.17	0.82

tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	NT24E	36.52	0.82
tblEnergyUse	NT24NG	48.51	0.03
tblEnergyUse	T24E	3.07	2.15
tblEnergyUse	T24E	3.07	2.15
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	1.06	0.26
tblEnergyUse	T24E	4.58	3.21
tblEnergyUse	T24E	6.07	4.25
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.47	2.43
tblEnergyUse	T24NG	2.92	2.04
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	3.25	1.40
tblEnergyUse	T24NG	1.92	1.34
tblEnergyUse	T24NG	12.65	8.86
tblEnergyUse	T24NG	2.00	1.40
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.54
tblFleetMix	HHD	0.07	0.63
tblFleetMix	HHD	0.07	0.63
tblFleetMix	HHD	0.07	0.63
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.01	0.35
tblFleetMix	LHD1	0.01	0.17
tblFleetMix	LHD1	0.01	0.17
tblFleetMix	LHD1	0.01	0.17
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MH	8.4000e-004	0.00

tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.21
tblFleetMix	MHD	0.02	0.21
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblLandUse	LandUseSquareFeet	1,234,930.00	1,234,926.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	11.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	482.54
tblVehicleEF	HHD	0.94	0.03

tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.04	8.38
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.44	2.4500e-003
tblVehicleEF	HHD	6,063.49	1,353.52
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.19	6.79
tblVehicleEF	HHD	0.95	1.93
tblVehicleEF	HHD	4.7470e-003	2.6990e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	4.5410e-003	2.5820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.54	0.57
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006

tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.62	0.65
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.89	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	1.48	8.27
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.37	2.3220e-003
tblVehicleEF	HHD	6,423.73	1,336.26
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.75	6.46
tblVehicleEF	HHD	0.90	1.82
tblVehicleEF	HHD	4.0020e-003	2.3850e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	3.8290e-003	2.2820e-003

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.51	0.60
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.03	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.0000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.59	0.68
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.02	0.02
tblVehicleEF	HHD	0.03	8.7800e-004
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.81	8.50
tblVehicleEF	HHD	0.42	0.16
tblVehicleEF	HHD	1.45	2.4460e-003

tblVehicleEF	HHD	5,566.02	1,373.00
tblVehicleEF	HHD	1,397.92	1,223.81
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	16.43	7.22
tblVehicleEF	HHD	0.95	1.91
tblVehicleEF	HHD	5.7750e-003	3.0950e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	5.5250e-003	2.9620e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8580e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005
tblVehicleEF	HHD	0.58	0.52
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005

tblVehicleEF	HHD	0.67	0.59
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.0560e-003	1.7230e-003
tblVehicleEF	LDA	3.6940e-003	0.04
tblVehicleEF	LDA	0.48	0.55
tblVehicleEF	LDA	0.88	1.94
tblVehicleEF	LDA	226.07	242.29
tblVehicleEF	LDA	52.35	49.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.6660e-003	6.2520e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.2630e-003	2.3970e-003
tblVehicleEF	LDA	5.3800e-004	4.9400e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	0.01	9.1010e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4590e-003	1.9630e-003
tblVehicleEF	LDA	3.2010e-003	0.04
tblVehicleEF	LDA	0.59	0.67
tblVehicleEF	LDA	0.77	1.71
tblVehicleEF	LDA	246.14	263.37
tblVehicleEF	LDA	52.35	49.48
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	8.6630e-003	7.0570e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.4650e-003	2.6050e-003
tblVehicleEF	LDA	5.3600e-004	4.9000e-004
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19

tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.9510e-003	1.6620e-003
tblVehicleEF	LDA	3.7940e-003	0.04
tblVehicleEF	LDA	0.45	0.51
tblVehicleEF	LDA	0.90	1.98
tblVehicleEF	LDA	220.50	236.51
tblVehicleEF	LDA	52.35	49.99
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.4050e-003	6.0400e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2070e-003	2.3400e-003
tblVehicleEF	LDA	5.3800e-004	4.9500e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7910e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	8.3780e-003	5.2640e-003

tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.09	1.16
tblVehicleEF	LDT1	2.45	2.17
tblVehicleEF	LDT1	285.86	290.48
tblVehicleEF	LDT1	66.26	60.86
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8710e-003	2.8740e-003
tblVehicleEF	LDT1	7.0500e-004	6.0200e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	9.4770e-003	5.9510e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.31	1.40

tblVehicleEF	LDT1	2.16	1.92
tblVehicleEF	LDT1	310.62	312.92
tblVehicleEF	LDT1	66.26	60.33
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.14	0.28
tblVehicleEF	LDT1	3.1220e-003	3.0970e-003
tblVehicleEF	LDT1	7.0000e-004	5.9700e-004
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	8.0590e-003	5.0610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.02	1.08
tblVehicleEF	LDT1	2.50	2.22
tblVehicleEF	LDT1	278.41	283.64

tblVehicleEF	LDT1	66.26	60.97
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.7960e-003	2.8070e-003
tblVehicleEF	LDT1	7.0600e-004	6.0300e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	4.4370e-003	3.0680e-003
tblVehicleEF	LDT2	5.1650e-003	0.06
tblVehicleEF	LDT2	0.65	0.78
tblVehicleEF	LDT2	1.18	2.47
tblVehicleEF	LDT2	319.11	303.53
tblVehicleEF	LDT2	73.38	63.90
tblVehicleEF	LDT2	0.06	0.06

tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1960e-003	3.0030e-003
tblVehicleEF	LDT2	7.5300e-004	6.3200e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	5.0280e-003	3.4890e-003
tblVehicleEF	LDT2	4.4840e-003	0.05
tblVehicleEF	LDT2	0.80	0.96
tblVehicleEF	LDT2	1.04	2.19
tblVehicleEF	LDT2	347.22	324.77
tblVehicleEF	LDT2	73.38	63.35
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003

tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	3.4790e-003	3.2130e-003
tblVehicleEF	LDT2	7.5100e-004	6.2700e-004
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.25
tblVehicleEF	LDT2	4.2650e-003	2.9430e-003
tblVehicleEF	LDT2	5.3220e-003	0.06
tblVehicleEF	LDT2	0.61	0.73
tblVehicleEF	LDT2	1.21	2.53
tblVehicleEF	LDT2	310.62	297.05
tblVehicleEF	LDT2	73.38	64.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003

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tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1100e-003	2.9390e-003
tblVehicleEF	LDT2	7.5400e-004	6.3400e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
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tblVehicleEF	LHD1	7.7330e-003	3.9530e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.87
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.76	1.18
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5250e-003
tblVehicleEF	LHD1	7.8700e-003	4.0100e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17

tblVehicleEF	LHD1	0.74	0.54
tblVehicleEF	LHD1	1.92	0.83
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.08
tblVehicleEF	LHD1	28.79	9.95
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.65	1.11
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7750e-003	5.9720e-003
tblVehicleEF	LHD1	3.2400e-004	9.8000e-005
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5130e-003
tblVehicleEF	LHD1	7.7230e-003	3.9460e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.88
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.74	1.16
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.1640e-003	2.9170e-003
tblVehicleEF	LHD2	3.1560e-003	3.0330e-003
tblVehicleEF	LHD2	6.0040e-003	7.4140e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.98	0.50
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.10	1.31
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9240e-003
tblVehicleEF	LHD2	3.1850e-003	3.0520e-003
tblVehicleEF	LHD2	5.8080e-003	7.1660e-003
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tblVehicleEF	LHD2	0.36	0.41

tblVehicleEF	LHD2	0.94	0.48
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.66
tblVehicleEF	LHD2	22.65	6.85
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	1.23
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4300e-004	6.8000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9160e-003
tblVehicleEF	LHD2	3.1490e-003	3.0280e-003
tblVehicleEF	LHD2	6.0380e-003	7.4680e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.99	0.51
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tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.09	1.29
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.52	18.66
tblVehicleEF	MCY	9.72	8.60
tblVehicleEF	MCY	167.91	208.37
tblVehicleEF	MCY	44.95	59.78
tblVehicleEF	MCY	1.12	1.12
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tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.54	1.71

tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.0440e-003	2.0620e-003
tblVehicleEF	MCY	6.6800e-004	5.9200e-004
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.21	19.32
tblVehicleEF	MCY	9.09	8.01
tblVehicleEF	MCY	167.91	209.35
tblVehicleEF	MCY	44.95	58.19
tblVehicleEF	MCY	0.97	0.97
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
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tblVehicleEF	MCY	1.7950e-003	1.7720e-003
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tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.10	2.11
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.0540e-003	2.0720e-003

tblVehicleEF	MCY	6.5200e-004	5.7600e-004
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.09	18.23
tblVehicleEF	MCY	9.70	8.56
tblVehicleEF	MCY	167.91	207.67
tblVehicleEF	MCY	44.95	59.73
tblVehicleEF	MCY	1.11	1.11
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tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.6800e-004	5.9100e-004
tblVehicleEF	MCY	1.58	1.59

tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MDV	9.0280e-003	3.8660e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.88
tblVehicleEF	MDV	2.38	2.80
tblVehicleEF	MDV	444.64	380.99
tblVehicleEF	MDV	101.02	79.79
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.18	0.34
tblVehicleEF	MDV	4.4520e-003	3.7660e-003
tblVehicleEF	MDV	1.0520e-003	7.9000e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10

tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.37
tblVehicleEF	MDV	0.01	4.4030e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.31	1.08
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tblVehicleEF	MDV	482.68	403.42
tblVehicleEF	MDV	101.02	79.12
tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.15	0.29
tblVehicleEF	MDV	4.8360e-003	3.9880e-003
tblVehicleEF	MDV	1.0460e-003	7.8300e-004
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46

tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	8.6740e-003	3.7110e-003
tblVehicleEF	MDV	0.01	0.07
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tblVehicleEF	MDV	101.02	79.93
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	4.3370e-003	3.6990e-003
tblVehicleEF	MDV	1.0530e-003	7.9100e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MH	0.02	3.1780e-003

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tblVehicleEF	MH	4.95	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.38	4.04
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
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tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.1780e-003

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tblVehicleEF	MH	1.75	0.32
tblVehicleEF	MH	4.61	0.00
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tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.28	3.81
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	9.8840e-003	8.7110e-003
tblVehicleEF	MH	6.5000e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.1780e-003

tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.99	0.00
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tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.37	4.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MHD	0.02	3.2360e-003

tblVehicleEF	MHD	2.3370e-003	1.1890e-003
tblVehicleEF	MHD	0.04	8.2020e-003
tblVehicleEF	MHD	0.32	0.35
tblVehicleEF	MHD	0.19	0.16
tblVehicleEF	MHD	4.66	0.92
tblVehicleEF	MHD	149.14	67.57
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.28
tblVehicleEF	MHD	0.41	0.38
tblVehicleEF	MHD	0.47	0.90
tblVehicleEF	MHD	1.1800e-004	3.6800e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	1.1300e-004	3.5200e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.4340e-003	6.4100e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2000e-004	8.2000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	0.02	3.0810e-003
tblVehicleEF	MHD	2.3650e-003	1.2070e-003
tblVehicleEF	MHD	0.04	7.9360e-003
tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.20	0.16
tblVehicleEF	MHD	4.45	0.88
tblVehicleEF	MHD	157.97	67.48
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.21
tblVehicleEF	MHD	0.42	0.38
tblVehicleEF	MHD	0.44	0.85
tblVehicleEF	MHD	1.0000e-004	3.1300e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	9.5000e-005	3.0000e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004

tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.28	0.04
tblVehicleEF	MHD	1.5170e-003	6.4000e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.30	0.05
tblVehicleEF	MHD	0.02	3.4620e-003
tblVehicleEF	MHD	2.3160e-003	1.1760e-003
tblVehicleEF	MHD	0.04	8.2760e-003
tblVehicleEF	MHD	0.44	0.42
tblVehicleEF	MHD	0.19	0.15
tblVehicleEF	MHD	4.73	0.93
tblVehicleEF	MHD	136.93	67.69
tblVehicleEF	MHD	1,057.85	926.25
tblVehicleEF	MHD	53.85	8.31
tblVehicleEF	MHD	0.39	0.40
tblVehicleEF	MHD	0.46	0.89
tblVehicleEF	MHD	1.4400e-004	4.4400e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005

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tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.3190e-003	6.4200e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2100e-004	8.2000e-005
tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.32	0.05
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tblVehicleEF	OBUS	5.0590e-003	4.2530e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.25	2.37
tblVehicleEF	OBUS	68.87	68.87

tblVehicleEF	OBUS	1,088.96	1,309.02
tblVehicleEF	OBUS	69.21	19.83
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.36	0.82
tblVehicleEF	OBUS	1.2000e-005	8.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	8.0000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	6.6900e-004	6.5700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8400e-004	1.9600e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.36	0.13

tblVehicleEF	OBUS	0.01	8.5790e-003
tblVehicleEF	OBUS	5.1570e-003	4.3450e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.35	0.53
tblVehicleEF	OBUS	4.91	2.22
tblVehicleEF	OBUS	71.95	68.13
tblVehicleEF	OBUS	1,088.96	1,309.04
tblVehicleEF	OBUS	69.21	19.57
tblVehicleEF	OBUS	0.14	0.24
tblVehicleEF	OBUS	0.33	0.76
tblVehicleEF	OBUS	1.0000e-005	7.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	7.1000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9900e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7800e-004	1.9400e-004

tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	0.01	8.4380e-003
tblVehicleEF	OBUS	5.0420e-003	4.2250e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.51
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.30	2.40
tblVehicleEF	OBUS	64.61	69.89
tblVehicleEF	OBUS	1,088.96	1,309.01
tblVehicleEF	OBUS	69.21	19.87
tblVehicleEF	OBUS	0.13	0.27
tblVehicleEF	OBUS	0.36	0.81
tblVehicleEF	OBUS	1.5000e-005	9.6000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.4000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.04

tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	6.2900e-004	6.6700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9700e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	9.0390e-003	5.9240e-003
tblVehicleEF	SBUS	0.06	7.2340e-003
tblVehicleEF	SBUS	7.86	3.17
tblVehicleEF	SBUS	0.55	0.48
tblVehicleEF	SBUS	6.35	0.94
tblVehicleEF	SBUS	1,119.53	360.62
tblVehicleEF	SBUS	1,088.21	1,081.74
tblVehicleEF	SBUS	55.65	6.13
tblVehicleEF	SBUS	8.21	3.27
tblVehicleEF	SBUS	3.64	4.25
tblVehicleEF	SBUS	7.3700e-003	3.1780e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	7.0510e-003	3.0400e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.35	0.04
tblVehicleEF	SBUS	0.01	3.4450e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6700e-004	6.1000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	9.1700e-003	5.9920e-003
tblVehicleEF	SBUS	0.05	6.0650e-003
tblVehicleEF	SBUS	7.76	3.13

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tblVehicleEF	SBUS	1,169.74	369.09
tblVehicleEF	SBUS	1,088.21	1,081.75
tblVehicleEF	SBUS	55.65	5.70
tblVehicleEF	SBUS	8.48	3.34
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tblVehicleEF	SBUS	6.2130e-003	2.6870e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	5.9440e-003	2.5700e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.01	3.5250e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3700e-004	5.6000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.01

tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.32	0.04
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	8.9970e-003	5.9160e-003
tblVehicleEF	SBUS	0.06	7.4960e-003
tblVehicleEF	SBUS	8.01	3.22
tblVehicleEF	SBUS	0.55	0.48
tblVehicleEF	SBUS	6.70	0.98
tblVehicleEF	SBUS	1,050.20	348.92
tblVehicleEF	SBUS	1,088.21	1,081.74
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tblVehicleEF	SBUS	8.9680e-003	3.8560e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	8.5800e-003	3.6900e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37

tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.01	3.3350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.7300e-004	6.1000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
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tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.09	26.11
tblVehicleEF	UBUS	13.03	1.46
tblVehicleEF	UBUS	1,778.37	1,592.06
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tblVehicleEF	UBUS	3.44	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003

tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
tblVehicleEF	UBUS	1.7600e-003	1.7100e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.15	0.08
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.15	26.11
tblVehicleEF	UBUS	11.17	1.24
tblVehicleEF	UBUS	1,778.37	1,592.06
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tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004

tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	0.02	2.8210e-003
tblVehicleEF	UBUS	0.12	0.01
tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
tblVehicleEF	UBUS	0.38	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.96	0.07
tblVehicleEF	UBUS	9.3630e-003	4.6650e-003
tblVehicleEF	UBUS	1.7280e-003	1.6800e-004
tblVehicleEF	UBUS	0.02	2.8210e-003
tblVehicleEF	UBUS	0.12	0.01
tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
tblVehicleEF	UBUS	1.71	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.08	26.11
tblVehicleEF	UBUS	13.21	1.45
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	17.30
tblVehicleEF	UBUS	3.42	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02

tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
tblVehicleEF	UBUS	1.7630e-003	1.7100e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.16	0.08
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	60.00
tblVehicleTrips	CW_TL	16.60	60.00
tblVehicleTrips	CW_TL	16.60	60.00

tblVehicleTrips	CW_TL	16.60	60.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	30.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	6.00	10.00
tblVehicleTrips	PB_TP	4.00	10.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PB_TP	11.00	41.00
tblVehicleTrips	PB_TP	36.00	42.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PR_TP	66.00	90.00
tblVehicleTrips	PR_TP	77.00	90.00
tblVehicleTrips	PR_TP	82.00	90.00
tblVehicleTrips	PR_TP	92.00	90.00

tblVehicleTrips	PR_TP	92.00	90.00
tblVehicleTrips	PR_TP	54.00	59.00
tblVehicleTrips	PR_TP	34.00	58.00
tblVehicleTrips	PR_TP	92.00	90.00
tblVehicleTrips	PR_TP	92.00	90.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	1.68	0.83
tblVehicleTrips	ST_TR	1.68	0.35
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	ST_TR	1.68	0.06
tblVehicleTrips	ST_TR	1.68	0.06
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	1.68	0.83
tblVehicleTrips	SU_TR	1.68	0.32
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	166.44	0.00
tblVehicleTrips	SU_TR	1.68	0.02
tblVehicleTrips	SU_TR	1.68	0.02
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	1.68	0.83

tblVehicleTrips	WD_TR	1.68	0.52
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	102.24	0.00
tblVehicleTrips	WD_TR	1.68	0.60
tblVehicleTrips	WD_TR	1.68	0.65

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	17.4774	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Energy	0.2275	2.0681	1.7372	0.0124		0.1572	0.1572		0.1572	0.1572	0.0000	11,610.2748	11,610.2748	0.6056	0.1577	11,672.3934
Mobile	1.1946	67.4633	13.3523	0.3498	13.9596	0.6982	14.6578	3.9242	0.6678	4.5920	0.0000	33,645.4141	33,645.4141	0.3986	0.0000	33,655.3796
Offroad	0.2195	1.9534	1.5082	6.3600e-003		0.0714	0.0714		0.0657	0.0657	0.0000	558.4649	558.4649	0.1806	0.0000	562.9804
Waste						0.0000	0.0000		0.0000	0.0000	864.9039	0.0000	864.9039	51.1144	0.0000	2,142.7628
Water						0.0000	0.0000		0.0000	0.0000	280.1050	2,802.2225	3,082.3275	28.9379	0.7142	4,018.5922
Total	**19.1191**	**71.4853**	**16.6525**	**0.3685**	**13.9596**	**0.9270**	**14.8866**	**3.9242**	**0.8909**	**4.8151**	**1,145.0089**	**48,616.4831**	**49,761.4921**	**81.2374**	**0.8718**	**52,052.2222**

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	17.4774	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Energy	0.2275	2.0681	1.7372	0.0124		0.1572	0.1572		0.1572	0.1572	0.0000	8,840.1594	8,840.1594	0.4391	0.1232	8,887.8517
Mobile	1.1946	67.4633	13.3523	0.3498	13.9596	0.6982	14.6578	3.9242	0.6678	4.5920	0.0000	33,645.4141	33,645.4141	0.3986	0.0000	33,655.3796
Offroad	0.2195	1.9534	1.5082	6.3600e-003		0.0714	0.0714		0.0657	0.0657	0.0000	558.4649	558.4649	0.1806	0.0000	562.9804
Waste						0.0000	0.0000		0.0000	0.0000	216.2260	0.0000	216.2260	12.7786	0.0000	535.6907
Water						0.0000	0.0000		0.0000	0.0000	280.1050	2,802.2225	3,082.3275	28.9379	0.7142	4,018.5922
Total	**19.1191**	**71.4853**	**16.6525**	**0.3685**	**13.9596**	**0.9270**	**14.8866**	**3.9242**	**0.8909**	**4.8151**	**496.3310**	**45,846.3678**	**46,342.6988**	**42.7351**	**0.8374**	**47,660.6084**

	ROG	NOx	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**	**56.65**	**5.70**	**6.87**	**47.39**	**3.95**	**8.44**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2020	6/30/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 90.1

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
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	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 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	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**

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 Site Preparation - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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 Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	1.1946	67.4633	13.3523	0.3498	13.9596	0.6982	14.6578	3.9242	0.6678	4.5920	0.0000	33,645.4141	33,645.4141	0.3986	0.0000	33,655.3796
Unmitigated	1.1946	67.4633	13.3523	0.3498	13.9596	0.6982	14.6578	3.9242	0.6678	4.5920	0.0000	33,645.4141	33,645.4141	0.3986	0.0000	33,655.3796

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		
General Office Building	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	584.01	584.01	584.01	11,481,426	11,481,426
Refrigerated Warehouse-Rail	414.00	278.00	257.28	7,316,981	7,316,981
Regional Shopping Center	0.00	0.00	0.00		
Supermarket	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	736.02	68.29	27.29	10,604,024	10,604,024
Unrefrigerated Warehouse-Rail	178.00	15.26	6.12	2,559,623	2,559,623
Total	1,912.03	945.56	874.70	31,962,055	31,962,055

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	90	0	10
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	90	0	10
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	90	0	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	60.00	8.40	6.90	100.00	0.00	0.00	90	0	10
Refrigerated Warehouse-Rail	60.00	8.40	6.90	100.00	0.00	0.00	90	0	10
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	59	0	41
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	58	0	42
Unrefrigerated Warehouse-No	60.00	8.40	6.90	100.00	0.00	0.00	90	0	10
Unrefrigerated Warehouse-Rail	60.00	8.40	6.90	100.00	0.00	0.00	90	0	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
General Office Building	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Office Park	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Other Asphalt Surfaces	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.347000	0.000000	0.110000	0.543000	0.000000	0.000000	0.000000	0.000000	0.000000
Refrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.167000	0.000000	0.207000	0.626000	0.000000	0.000000	0.000000	0.000000	0.000000
Regional Shopping Center	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Supermarket	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.167000	0.000000	0.207000	0.626000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.167000	0.000000	0.207000	0.626000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable 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	6,588.7463	6,588.7463	0.3960	0.0819	6,623.0596
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,358.8617	9,358.8617	0.5625	0.1164	9,407.6013
NaturalGas Mitigated	0.2275	2.0681	1.7372	0.0124		0.1572	0.1572		0.1572	0.1572	0.0000	2,251.4131	2,251.4131	0.0432	0.0413	2,264.7921
NaturalGas Unmitigated	0.2275	2.0681	1.7372	0.0124		0.1572	0.1572		0.1572	0.1572	0.0000	2,251.4131	2,251.4131	0.0432	0.0413	2,264.7921

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
General Office Building	942867	5.0800e-003	0.0462	0.0388	2.8000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	50.3150	50.3150	9.6000e-004	9.2000e-004	50.6140
Office Park	1.07968e+006	5.8200e-003	0.0529	0.0445	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.6157	57.6157	1.1000e-003	1.0600e-003	57.9581
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	3.5553e+007	0.1917	1.7428	1.4640	0.0105		0.1325	0.1325		0.1325	0.1325	0.0000	1,897.2435	1,897.2435	0.0364	0.0348	1,908.5178
Refrigerated Warehouse-Rail	1.144e+006	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003	0.0000	61.0482	61.0482	1.1700e-003	1.1200e-003	61.4110
Regional Shopping Center	363086	1.9600e-003	0.0178	0.0150	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3757	19.3757	3.7000e-004	3.6000e-004	19.4908
Supermarket	948868	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	50.6352	50.6352	9.7000e-004	9.3000e-004	50.9361
Unrefrigerated Warehouse-No Rail	1.76594e+006	9.5200e-003	0.0866	0.0727	5.2000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003	0.0000	94.2375	94.2375	1.8100e-003	1.7300e-003	94.7975
Unrefrigerated Warehouse-Rail	392445	2.1200e-003	0.0192	0.0162	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	20.9424	20.9424	4.0000e-004	3.8000e-004	21.0668
Total		**0.2275**	**2.0681**	**1.7372**	**0.0124**		**0.1572**	**0.1572**		**0.1572**	**0.1572**	**0.0000**	**2,251.4131**	**2,251.4131**	**0.0431**	**0.0413**	**2,264.7921**

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
General Office Building	942867	5.0800e-003	0.0462	0.0388	2.8000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	50.3150	50.3150	9.6000e-004	9.2000e-004	50.6140
Office Park	1.07968e+006	5.8200e-003	0.0529	0.0445	3.2000e-004		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	57.6157	57.6157	1.1000e-003	1.0600e-003	57.9581
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	3.5553e+007	0.1917	1.7428	1.4640	0.0105		0.1325	0.1325		0.1325	0.1325	0.0000	1,897.2435	1,897.2435	0.0364	0.0348	1,908.5178
Refrigerated Warehouse-Rail	1.144e+006	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003	0.0000	61.0482	61.0482	1.1700e-003	1.1200e-003	61.4110
Regional Shopping Center	363086	1.9600e-003	0.0178	0.0150	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3757	19.3757	3.7000e-004	3.6000e-004	19.4908
Supermarket	948868	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	50.6352	50.6352	9.7000e-004	9.3000e-004	50.9361
Unrefrigerated Warehouse-No Rail	1.76594e+006	9.5200e-003	0.0866	0.0727	5.2000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003	0.0000	94.2375	94.2375	1.8100e-003	1.7300e-003	94.7975
Unrefrigerated Warehouse-Rail	392445	2.1200e-003	0.0192	0.0162	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	20.9424	20.9424	4.0000e-004	3.8000e-004	21.0668
Total		**0.2275**	**2.0681**	**1.7372**	**0.0124**		**0.1572**	**0.1572**		**0.1572**	**0.1572**	**0.0000**	**2,251.4131**	**2,251.4131**	**0.0431**	**0.0413**	**2,264.7921**

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
General Office Building	2.91008e+006	636.9486	0.0383	7.9200e-003	640.2657
Office Park	4.08584e+006	894.2944	0.0538	0.0111	898.9518
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.7244e+007	5,963.0703	0.3584	0.0742	5,994.1252
Refrigerated Warehouse-Rail	1.52e+006	332.6922	0.0200	4.1400e-003	334.4248
Regional Shopping Center	2.12095e+006	464.2270	0.0279	5.7700e-003	466.6447
Supermarket	2.00998e+006	439.9375	0.0264	5.4700e-003	442.2286
Unrefrigerated Warehouse-No Rail	2.34636e+006	513.5628	0.0309	6.3900e-003	516.2374
Unrefrigerated Warehouse-Rail	521430	114.1288	6.8600e-003	1.4200e-003	114.7232
Total		**9,358.8617**	**0.5625**	**0.1164**	**9,407.6013**

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
General Office Building	1.73208e+006	379.1118	0.0228	4.7100e-003	381.0861
Office Park	2.32554e+006	509.0064	0.0306	6.3300e-003	511.6573
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.1098e+007	4,617.8556	0.2775	0.0574	4,641.9047
Refrigerated Warehouse-Rail	822400	180.0040	0.0108	2.2400e-003	180.9414
Regional Shopping Center	1.17472e+006	257.1178	0.0155	3.2000e-003	258.4568
Supermarket	1.39822e+006	306.0365	0.0184	3.8100e-003	307.6303
Unrefrigerated Warehouse-No Rail	1.2695e+006	277.8645	0.0167	3.4600e-003	279.3116
Unrefrigerated Warehouse-Rail	282121	61.7497	3.7100e-003	7.7000e-004	62.0713
Total		**6,588.7463**	**0.3960**	**0.0819**	**6,623.0596**

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	17.4774	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Unmitigated	17.4774	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.0056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.4668					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0700e-003	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Total	**17.4774**	**5.0000e-004**	**0.0549**	**0.0000**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1069**	**0.1069**	**2.8000e-004**	**0.0000**	**0.1138**

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	2.0056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.4668					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0700e-003	5.0000e-004	0.0549	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.1069	0.1069	2.8000e-004	0.0000	0.1138
Total	**17.4774**	**5.0000e-004**	**0.0549**	**0.0000**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**0.1069**	**0.1069**	**2.8000e-004**	**0.0000**	**0.1138**

7.0 Water Detail

7.1 Mitigation Measures Water

Meridian South Campus - Vacant Land (Operations - Trucks) - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,082.3275	28.9379	0.7142	4,018.5922
Unmitigated	3,082.3275	28.9379	0.7142	4,018.5922

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 7.38718	17.9636	1.0800e-003	2.2000e-004	18.0571
General Office Building	68.9625 / 42.2673	321.2032	2.2651	0.0568	394.7525
Office Park	94.0656 / 57.6531	438.1247	3.0897	0.0775	538.4468
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	161.875 / 0	512.6977	5.3024	0.1303	684.0828
Refrigerated Warehouse-Rail	185 / 0	585.9402	6.0599	0.1489	781.8089
Regional Shopping Center	16.3989 / 10.0509	76.3804	0.5386	0.0135	93.8701
Supermarket	7.56127 / 0.233854	24.5171	0.2477	6.0900e-003	32.5255
Unrefrigerated Warehouse-No Rail	285.578 / 0	904.4939	9.3545	0.2298	1,206.8491
Unrefrigerated Warehouse-Rail	63.4643 / 0	201.0068	2.0789	0.0511	268.1995
Total		**3,082.3275**	**28.9379**	**0.7141**	**4,018.5922**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 7.38718	17.9636	1.0800e-003	2.2000e-004	18.0571
General Office Building	68.9625 / 42.2673	321.2032	2.2651	0.0568	394.7525
Office Park	94.0656 / 57.6531	438.1247	3.0897	0.0775	538.4468
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	161.875 / 0	512.6977	5.3024	0.1303	684.0828
Refrigerated Warehouse-Rail	185 / 0	585.9402	6.0599	0.1489	781.8089
Regional Shopping Center	16.3989 / 10.0509	76.3804	0.5386	0.0135	93.8701
Supermarket	7.56127 / 0.233854	24.5171	0.2477	6.0900e-003	32.5255
Unrefrigerated Warehouse-No Rail	285.578 / 0	904.4939	9.3545	0.2298	1,206.8491
Unrefrigerated Warehouse-Rail	63.4643 / 0	201.0068	2.0789	0.0511	268.1995
Total		**3,082.3275**	**28.9379**	**0.7141**	**4,018.5922**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	216.2260	12.7786	0.0000	535.6907
Unmitigated	864.9039	51.1144	0.0000	2,142.7628

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.53	0.1076	6.3600e-003	0.0000	0.2665
General Office Building	360.85	73.2493	4.3289	0.0000	181.4720
Office Park	492.2	99.9122	5.9046	0.0000	247.5281
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	658	133.5681	7.8937	0.0000	330.9092
Refrigerated Warehouse-Rail	752	152.6492	9.0213	0.0000	378.1819
Regional Shopping Center	232.46	47.1873	2.7887	0.0000	116.9045
Supermarket	345.96	70.2268	4.1503	0.0000	173.9838
Unrefrigerated Warehouse-No Rail	1160.83	235.6380	13.9258	0.0000	583.7832
Unrefrigerated Warehouse-Rail	257.97	52.3656	3.0947	0.0000	129.7335
Total		**864.9039**	**51.1144**	**0.0000**	**2,142.7628**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.1325	0.0269	1.5900e-003	0.0000	0.0666
General Office Building	90.2125	18.3123	1.0822	0.0000	45.3680
Office Park	123.05	24.9780	1.4762	0.0000	61.8820
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	164.5	33.3920	1.9734	0.0000	82.7273
Refrigerated Warehouse-Rail	188	38.1623	2.2553	0.0000	94.5455
Regional Shopping Center	58.115	11.7968	0.6972	0.0000	29.2261
Supermarket	86.49	17.5567	1.0376	0.0000	43.4960
Unrefrigerated Warehouse-No Rail	290.207	58.9095	3.4815	0.0000	145.9458
Unrefrigerated Warehouse-Rail	64.4925	13.0914	0.7737	0.0000	32.4334
Total		**216.2260**	**12.7786**	**0.0000**	**535.6907**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	11	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.2195	1.9534	1.5082	6.3600e-003		0.0714	0.0714		0.0657	0.0657	0.0000	558.4649	558.4649	0.1806	0.0000	562.9804
Total	**0.2195**	**1.9534**	**1.5082**	**6.3600e-003**		**0.0714**	**0.0714**		**0.0657**	**0.0657**	**0.0000**	**558.4649**	**558.4649**	**0.1806**	**0.0000**	**562.9804**

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 5.4:

CALEEMOD ANNUAL OPERATIONAL (PASSENGER CARS) EMISSIONS MODEL OUTPUTS (BUILT/ENTITLED)

Meridian South Campus - Built/Entitled (Operations - Passenger Cars)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	1,000.00	1000sqft	22.96	1,000,000.00	0
Unrefrigerated Warehouse-No Rail	500.00	1000sqft	11.48	500,000.00	0
Unrefrigerated Warehouse-Rail	1,000.00	1000sqft	22.96	1,000,000.00	0
Other Asphalt Surfaces	162.80	Acre	162.80	7,091,568.00	0
Regional Shopping Center	15.49	1000sqft	0.36	15,485.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	482.54	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e Intensity Factor has been adjusted to reflect the 2024 RPS target.

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Meridian South Campus Traffic Impact Analysis by Urban Crossroads, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The energy use for all warehouses have been adjusted to reflect the CalEEMod default energy use for Unrefrigerated Warehouse - No Rail.

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	425494	425525
tblConstructionPhase	NumDays	180.00	0.00
tblEnergyUse	LightingElect	2.37	1.17
tblEnergyUse	NT24E	36.52	0.82
tblEnergyUse	NT24NG	48.51	0.03
tblEnergyUse	T24E	1.06	0.37
tblEnergyUse	T24NG	3.25	2.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00

tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00

tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	10.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	482.54
tblVehicleEF	HHD	0.94	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.04	8.38
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.44	2.4500e-003
tblVehicleEF	HHD	6,063.49	1,353.52
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.19	6.79

tblVehicleEF	HHD	0.95	1.93
tblVehicleEF	HHD	4.7470e-003	2.6990e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	4.5410e-003	2.5820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.54	0.57
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.62	0.65
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5100e-004	2.0200e-004

tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.89	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	1.48	8.27
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.37	2.3220e-003
tblVehicleEF	HHD	6,423.73	1,336.26
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.75	6.46
tblVehicleEF	HHD	0.90	1.82
tblVehicleEF	HHD	4.0020e-003	2.3850e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	3.8290e-003	2.2820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
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tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.05	0.02

tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.03	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.0000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.59	0.68
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.04	1.0000e-006
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tblVehicleEF	HHD	5.7750e-003	3.0950e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03

tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	5.5250e-003	2.9620e-003
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tblVehicleEF	HHD	8.8590e-003	8.8580e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005
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tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005
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tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.0560e-003	1.7230e-003
tblVehicleEF	LDA	3.6940e-003	0.04
tblVehicleEF	LDA	0.48	0.55
tblVehicleEF	LDA	0.88	1.94

tblVehicleEF	LDA	226.07	242.29
tblVehicleEF	LDA	52.35	49.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.6660e-003	6.2520e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.2630e-003	2.3970e-003
tblVehicleEF	LDA	5.3800e-004	4.9400e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.1010e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4590e-003	1.9630e-003
tblVehicleEF	LDA	3.2010e-003	0.04
tblVehicleEF	LDA	0.59	0.67
tblVehicleEF	LDA	0.77	1.71
tblVehicleEF	LDA	246.14	263.37
tblVehicleEF	LDA	52.35	49.48

tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	8.6630e-003	7.0570e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.4650e-003	2.6050e-003
tblVehicleEF	LDA	5.3600e-004	4.9000e-004
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.9510e-003	1.6620e-003
tblVehicleEF	LDA	3.7940e-003	0.04
tblVehicleEF	LDA	0.45	0.51
tblVehicleEF	LDA	0.90	1.98
tblVehicleEF	LDA	220.50	236.51
tblVehicleEF	LDA	52.35	49.99
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003

tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.4050e-003	6.0400e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2070e-003	2.3400e-003
tblVehicleEF	LDA	5.3800e-004	4.9500e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7910e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	8.3780e-003	5.2640e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.09	1.16
tblVehicleEF	LDT1	2.45	2.17
tblVehicleEF	LDT1	285.86	290.48
tblVehicleEF	LDT1	66.26	60.86
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003

tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8710e-003	2.8740e-003
tblVehicleEF	LDT1	7.0500e-004	6.0200e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	9.4770e-003	5.9510e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.31	1.40
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tblVehicleEF	LDT1	310.62	312.92
tblVehicleEF	LDT1	66.26	60.33
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.33	0.33

tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.14	0.28
tblVehicleEF	LDT1	3.1220e-003	3.0970e-003
tblVehicleEF	LDT1	7.0000e-004	5.9700e-004
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	8.0590e-003	5.0610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.02	1.08
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tblVehicleEF	LDT1	278.41	283.64
tblVehicleEF	LDT1	66.26	60.97
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.7960e-003	2.8070e-003
tblVehicleEF	LDT1	7.0600e-004	6.0300e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	4.4370e-003	3.0680e-003
tblVehicleEF	LDT2	5.1650e-003	0.06
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tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40

tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1960e-003	3.0030e-003
tblVehicleEF	LDT2	7.5300e-004	6.3200e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	5.0280e-003	3.4890e-003
tblVehicleEF	LDT2	4.4840e-003	0.05
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tblVehicleEF	LDT2	73.38	63.35
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	3.4790e-003	3.2130e-003

tblVehicleEF	LDT2	7.5100e-004	6.2700e-004
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.25
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tblVehicleEF	LDT2	5.3220e-003	0.06
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tblVehicleEF	LDT2	73.38	64.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1100e-003	2.9390e-003
tblVehicleEF	LDT2	7.5400e-004	6.3400e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
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tblVehicleEF	LHD1	7.7330e-003	3.9530e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.87
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.76	1.18
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5250e-003
tblVehicleEF	LHD1	7.8700e-003	4.0100e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.74	0.54
tblVehicleEF	LHD1	1.92	0.83
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.08
tblVehicleEF	LHD1	28.79	9.95
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.65	1.11
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7750e-003	5.9720e-003
tblVehicleEF	LHD1	3.2400e-004	9.8000e-005
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5130e-003
tblVehicleEF	LHD1	7.7230e-003	3.9460e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17

tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.88
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.74	1.16
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.1640e-003	2.9170e-003
tblVehicleEF	LHD2	3.1560e-003	3.0330e-003
tblVehicleEF	LHD2	6.0040e-003	7.4140e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.98	0.50
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.10	1.31
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9240e-003
tblVehicleEF	LHD2	3.1850e-003	3.0520e-003
tblVehicleEF	LHD2	5.8080e-003	7.1660e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.94	0.48
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.66
tblVehicleEF	LHD2	22.65	6.85
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	1.23
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4300e-004	6.8000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9160e-003
tblVehicleEF	LHD2	3.1490e-003	3.0280e-003
tblVehicleEF	LHD2	6.0380e-003	7.4680e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.99	0.51

tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.09	1.29
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.06

tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.52	18.66
tblVehicleEF	MCY	9.72	8.60
tblVehicleEF	MCY	167.91	208.37
tblVehicleEF	MCY	44.95	59.78
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.0440e-003	2.0620e-003
tblVehicleEF	MCY	6.6800e-004	5.9200e-004
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.22	1.96

tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.21	19.32
tblVehicleEF	MCY	9.09	8.01
tblVehicleEF	MCY	167.91	209.35
tblVehicleEF	MCY	44.95	58.19
tblVehicleEF	MCY	0.97	0.97
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.10	2.11
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.0540e-003	2.0720e-003
tblVehicleEF	MCY	6.5200e-004	5.7600e-004
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	18.09	18.23
tblVehicleEF	MCY	9.70	8.56
tblVehicleEF	MCY	167.91	207.67
tblVehicleEF	MCY	44.95	59.73
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.6800e-004	5.9100e-004
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MDV	9.0280e-003	3.8660e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.88
tblVehicleEF	MDV	2.38	2.80

tblVehicleEF	MDV	444.64	380.99
tblVehicleEF	MDV	101.02	79.79
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.18	0.34
tblVehicleEF	MDV	4.4520e-003	3.7660e-003
tblVehicleEF	MDV	1.0520e-003	7.9000e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.37
tblVehicleEF	MDV	0.01	4.4030e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.31	1.08
tblVehicleEF	MDV	2.10	2.47
tblVehicleEF	MDV	482.68	403.42
tblVehicleEF	MDV	101.02	79.12

tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.15	0.29
tblVehicleEF	MDV	4.8360e-003	3.9880e-003
tblVehicleEF	MDV	1.0460e-003	7.8300e-004
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	8.6740e-003	3.7110e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.00	0.82
tblVehicleEF	MDV	2.43	2.87
tblVehicleEF	MDV	433.14	374.20
tblVehicleEF	MDV	101.02	79.93
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003

tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	4.3370e-003	3.6990e-003
tblVehicleEF	MDV	1.0530e-003	7.9100e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.95	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.38	4.04
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.75	0.32
tblVehicleEF	MH	4.61	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.28	3.81
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	9.8840e-003	8.7110e-003
tblVehicleEF	MH	6.5000e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.99	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.37	4.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MHD	0.02	3.2360e-003
tblVehicleEF	MHD	2.3370e-003	1.1890e-003
tblVehicleEF	MHD	0.04	8.2020e-003
tblVehicleEF	MHD	0.32	0.35
tblVehicleEF	MHD	0.19	0.16
tblVehicleEF	MHD	4.66	0.92
tblVehicleEF	MHD	149.14	67.57
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.28
tblVehicleEF	MHD	0.41	0.38

tblVehicleEF	MHD	0.47	0.90
tblVehicleEF	MHD	1.1800e-004	3.6800e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	1.1300e-004	3.5200e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.4340e-003	6.4100e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2000e-004	8.2000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	0.02	3.0810e-003
tblVehicleEF	MHD	2.3650e-003	1.2070e-003
tblVehicleEF	MHD	0.04	7.9360e-003

tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.20	0.16
tblVehicleEF	MHD	4.45	0.88
tblVehicleEF	MHD	157.97	67.48
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.21
tblVehicleEF	MHD	0.42	0.38
tblVehicleEF	MHD	0.44	0.85
tblVehicleEF	MHD	1.0000e-004	3.1300e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	9.5000e-005	3.0000e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.28	0.04
tblVehicleEF	MHD	1.5170e-003	6.4000e-004
tblVehicleEF	MHD	0.01	8.8240e-003
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tblVehicleEF	MHD	2.7150e-003	1.1690e-003
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tblVehicleEF	MHD	0.03	0.02

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tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.30	0.05
tblVehicleEF	MHD	0.02	3.4620e-003
tblVehicleEF	MHD	2.3160e-003	1.1760e-003
tblVehicleEF	MHD	0.04	8.2760e-003
tblVehicleEF	MHD	0.44	0.42
tblVehicleEF	MHD	0.19	0.15
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tblVehicleEF	MHD	136.93	67.69
tblVehicleEF	MHD	1,057.85	926.25
tblVehicleEF	MHD	53.85	8.31
tblVehicleEF	MHD	0.39	0.40
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tblVehicleEF	MHD	1.4400e-004	4.4400e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.10

tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.3190e-003	6.4200e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2100e-004	8.2000e-005
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
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tblVehicleEF	OBUS	0.35	0.52
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tblVehicleEF	OBUS	68.87	68.87
tblVehicleEF	OBUS	1,088.96	1,309.02
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tblVehicleEF	OBUS	0.36	0.82
tblVehicleEF	OBUS	1.2000e-005	8.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	8.0000e-005
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tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	6.6900e-004	6.5700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8400e-004	1.9600e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	0.01	8.5790e-003
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tblVehicleEF	OBUS	0.35	0.53
tblVehicleEF	OBUS	4.91	2.22
tblVehicleEF	OBUS	71.95	68.13
tblVehicleEF	OBUS	1,088.96	1,309.04
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tblVehicleEF	OBUS	0.33	0.76
tblVehicleEF	OBUS	1.0000e-005	7.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	7.1000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9900e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
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tblVehicleEF	OBUS	1.5000e-005	9.6000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
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tblVehicleEF	OBUS	0.03	0.04
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.28
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tblVehicleEF	OBUS	0.02	0.03

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tblVehicleEF	SBUS	0.02	0.02
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tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
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tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
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tblVehicleEF	SBUS	0.93	0.37

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tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004

tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
tblVehicleEF	UBUS	1.7630e-003	1.7100e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.16	0.08
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PR_TP	92.00	90.00
tblVehicleTrips	PR_TP	92.00	90.00
tblVehicleTrips	PR_TP	92.00	90.00
tblVehicleTrips	ST_TR	1.68	2.31

tblVehicleTrips	ST_TR	49.97	99.06
tblVehicleTrips	ST_TR	1.68	1.10
tblVehicleTrips	ST_TR	1.68	2.95
tblVehicleTrips	SU_TR	1.68	2.31
tblVehicleTrips	SU_TR	25.24	99.06
tblVehicleTrips	SU_TR	1.68	1.10
tblVehicleTrips	SU_TR	1.68	2.95
tblVehicleTrips	WD_TR	1.68	2.31
tblVehicleTrips	WD_TR	42.70	99.06
tblVehicleTrips	WD_TR	1.68	1.10
tblVehicleTrips	WD_TR	1.68	2.95

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	10.8158	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.0276	0.2505	0.2104	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	1,606.8338	1,606.8338	0.0854	0.0216	1,615.4023
Mobile	2.6184	3.9101	32.3451	0.1096	13.0702	0.0636	13.1338	3.4719	0.0589	3.5308	0.0000	10,072.2022	10,072.2022	0.2354	0.0000	10,078.0870
Offroad	0.1996	1.7758	1.3711	5.7800e-003		0.0649	0.0649		0.0597	0.0597	0.0000	507.6954	507.6954	0.1642	0.0000	511.8003
Waste						0.0000	0.0000		0.0000	0.0000	480.3274	0.0000	480.3274	28.3865	0.0000	1,189.9907
Water						0.0000	0.0000		0.0000	0.0000	183.7762	1,652.6276	1,836.4038	18.9749	0.4662	2,449.7164
Total	**13.6614**	**5.9367**	**33.9607**	**0.1168**	**13.0702**	**0.1477**	**13.2178**	**3.4719**	**0.1378**	**3.6097**	**664.1035**	**13,839.4254**	**14,503.5290**	**47.8466**	**0.4878**	**15,845.0675**

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	10.8158	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.0276	0.2505	0.2104	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	1,606.8338	1,606.8338	0.0854	0.0216	1,615.4023
Mobile	2.6184	3.9101	32.3451	0.1096	13.0702	0.0636	13.1338	3.4719	0.0589	3.5308	0.0000	10,072.2022	10,072.2022	0.2354	0.0000	10,078.0870
Offroad	0.1996	1.7758	1.3711	5.7800e-003		0.0649	0.0649		0.0597	0.0597	0.0000	507.6954	507.6954	0.1642	0.0000	511.8003
Waste						0.0000	0.0000		0.0000	0.0000	480.3274	0.0000	480.3274	28.3865	0.0000	1,189.9907
Water						0.0000	0.0000		0.0000	0.0000	183.7762	1,652.6276	1,836.4038	18.9749	0.4662	2,449.7164
Total	**13.6614**	**5.9367**	**33.9607**	**0.1168**	**13.0702**	**0.1477**	**13.2178**	**3.4719**	**0.1378**	**3.6097**	**664.1035**	**13,839.4254**	**14,503.5290**	**47.8466**	**0.4878**	**15,845.0675**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2020	6/30/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 162.8

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
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	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 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	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**

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 Site Preparation - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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 Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	2.6184	3.9101	32.3451	0.1096	13.0702	0.0636	13.1338	3.4719	0.0589	3.5308	0.0000	10,072.2022	10,072.2022	0.2354	0.0000	10,078.0870
Unmitigated	2.6184	3.9101	32.3451	0.1096	13.0702	0.0636	13.1338	3.4719	0.0589	3.5308	0.0000	10,072.2022	10,072.2022	0.2354	0.0000	10,078.0870

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	2,306.00	2,306.00	2306.00	12,548,791	12,548,791
Regional Shopping Center	1,534.00	1,534.00	1534.00	3,317,802	3,317,802
Unrefrigerated Warehouse-No Rail	550.00	550.00	550.00	2,992,990	2,992,990
Unrefrigerated Warehouse-Rail	2,952.00	2,952.00	2952.00	16,064,194	16,064,194
Total	7,342.00	7,342.00	7,342.00	34,923,777	34,923,777

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No Rail	16.60	8.40	6.90	100.00	0.00	0.00	90	0	10
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	100.00	0.00	0.00	90	0	10
Unrefrigerated Warehouse-Rail	16.60	8.40	6.90	100.00	0.00	0.00	90	0	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Refrigerated Warehouse-No Rail	0.623100	0.040400	0.212100	0.124400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Regional Shopping Center	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Unrefrigerated Warehouse-No Rail	0.623100	0.040400	0.212100	0.124400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.623100	0.040400	0.212100	0.124400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Meridian South Campus - Built/Entitled (Operations - Passenger Cars) - Riverside-South Coast 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	1,334.1780	1,334.1780	0.0802	0.0166	1,341.1262
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,334.1780	1,334.1780	0.0802	0.0166	1,341.1262
NaturalGas Mitigated	0.0276	0.2505	0.2104	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	272.6558	272.6558	5.2300e-003	5.0000e-003	274.2761
NaturalGas Unmitigated	0.0276	0.2505	0.2104	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	272.6558	272.6558	5.2300e-003	5.0000e-003	274.2761

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.03e+006	0.0110	0.0995	0.0836	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.3285	108.3285	2.0800e-003	1.9900e-003	108.9723
Regional Shopping Center	34376.7	1.9000e-004	1.6900e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8345	1.8345	4.0000e-005	3.0000e-005	1.8454
Unrefrigerated Warehouse-No Rail	1.015e+006	5.4700e-003	0.0498	0.0418	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003	0.0000	54.1643	54.1643	1.0400e-003	9.9000e-004	54.4861
Unrefrigerated Warehouse-Rail	2.03e+006	0.0110	0.0995	0.0836	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.3285	108.3285	2.0800e-003	1.9900e-003	108.9723
Total		**0.0276**	**0.2505**	**0.2104**	**1.5100e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**272.6558**	**272.6558**	**5.2400e-003**	**5.0000e-003**	**274.2761**

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.03e+006	0.0110	0.0995	0.0836	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.3285	108.3285	2.0800e-003	1.9900e-003	108.9723
Regional Shopping Center	34376.7	1.9000e-004	1.6900e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8345	1.8345	4.0000e-005	3.0000e-005	1.8454
Unrefrigerated Warehouse-No Rail	1.015e+006	5.4700e-003	0.0498	0.0418	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003	0.0000	54.1643	54.1643	1.0400e-003	9.9000e-004	54.4861
Unrefrigerated Warehouse-Rail	2.03e+006	0.0110	0.0995	0.0836	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.3285	108.3285	2.0800e-003	1.9900e-003	108.9723
Total		**0.0276**	**0.2505**	**0.2104**	**1.5100e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**272.6558**	**272.6558**	**5.2400e-003**	**5.0000e-003**	**274.2761**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.36e+006	516.5485	0.0310	6.4200e-003	519.2386
Regional Shopping Center	195576	42.8069	2.5700e-003	5.3000e-004	43.0298
Unrefrigerated Warehouse-No Rail	1.18e+006	258.2742	0.0155	3.2100e-003	259.6193
Unrefrigerated Warehouse-Rail	2.36e+006	516.5485	0.0310	6.4200e-003	519.2386
Total		**1,334.1780**	**0.0802**	**0.0166**	**1,341.1262**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.36e+006	516.5485	0.0310	6.4200e-003	519.2386
Regional Shopping Center	195576	42.8069	2.5700e-003	5.3000e-004	43.0298
Unrefrigerated Warehouse-No Rail	1.18e+006	258.2742	0.0155	3.2100e-003	259.6193
Unrefrigerated Warehouse-Rail	2.36e+006	516.5485	0.0310	6.4200e-003	519.2386
Total		**1,334.1780**	**0.0802**	**0.0166**	**1,341.1262**

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	10.8158	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Unmitigated	10.8158	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

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	1.2645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.5481					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1500e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	**10.8158**	**3.1000e-004**	**0.0341**	**0.0000**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**0.0665**	**0.0665**	**1.7000e-004**	**0.0000**	**0.0708**

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	1.2645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.5481					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1500e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	**10.8158**	**3.1000e-004**	**0.0341**	**0.0000**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**0.0665**	**0.0665**	**1.7000e-004**	**0.0000**	**0.0708**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,836.4038	18.9749	0.4662	2,449.7164
Unmitigated	1,836.4038	18.9749	0.4662	2,449.7164

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	231.25 / 0	732.4252	7.5749	0.1861	977.2611
Regional Shopping Center	1.14664 / 0.702781	5.3407	0.0377	9.4000e-004	6.5636
Unrefrigerated Warehouse-No Rail	115.625 / 0	366.2126	3.7875	0.0931	488.6306
Unrefrigerated Warehouse-Rail	231.25 / 0	732.4252	7.5749	0.1861	977.2611
Total		**1,836.4038**	**18.9749**	**0.4662**	**2,449.7164**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	231.25 / 0	732.4252	7.5749	0.1861	977.2611
Regional Shopping Center	1.14664 / 0.702781	5.3407	0.0377	9.4000e-004	6.5636
Unrefrigerated Warehouse-No Rail	115.625 / 0	366.2126	3.7875	0.0931	488.6306
Unrefrigerated Warehouse-Rail	231.25 / 0	732.4252	7.5749	0.1861	977.2611
Total		**1,836.4038**	**18.9749**	**0.4662**	**2,449.7164**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	480.3274	28.3865	0.0000	1,189.9907
Unmitigated	480.3274	28.3865	0.0000	1,189.9907

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	940	190.8115	11.2766	0.0000	472.7274
Regional Shopping Center	16.25	3.2986	0.1949	0.0000	8.1722
Unrefrigerated Warehouse-No Rail	470	95.4058	5.6383	0.0000	236.3637
Unrefrigerated Warehouse-Rail	940	190.8115	11.2766	0.0000	472.7274
Total		**480.3274**	**28.3865**	**0.0000**	**1,189.9907**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	940	190.8115	11.2766	0.0000	472.7274
Regional Shopping Center	16.25	3.2986	0.1949	0.0000	8.1722
Unrefrigerated Warehouse-No Rail	470	95.4058	5.6383	0.0000	236.3637
Unrefrigerated Warehouse-Rail	940	190.8115	11.2766	0.0000	472.7274
Total		**480.3274**	**28.3865**	**0.0000**	**1,189.9907**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	10	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.1996	1.7758	1.3711	5.7800e-003		0.0649	0.0649		0.0597	0.0597	0.0000	507.6954	507.6954	0.1642	0.0000	511.8003
Total	**0.1996**	**1.7758**	**1.3711**	**5.7800e-003**		**0.0649**	**0.0649**		**0.0597**	**0.0597**	**0.0000**	**507.6954**	**507.6954**	**0.1642**	**0.0000**	**511.8003**

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 5.5:

CALEEMOD ANNUAL OPERATIONAL (TRUCKS) EMISSIONS MODEL OUTPUTS (BUILT/ENTITLED)

Meridian South Campus - Built/Entitled (Operations - Trucks)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	1,000.00	1000sqft	22.96	1,000,000.00	0
Unrefrigerated Warehouse-No Rail	500.00	1000sqft	11.48	500,000.00	0
Unrefrigerated Warehouse-Rail	1,000.00	1000sqft	22.96	1,000,000.00	0
Other Asphalt Surfaces	162.80	Acre	162.80	7,091,568.00	0
Regional Shopping Center	15.48	1000sqft	0.36	15,485.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	482.54	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e Intensity Factor has been adjusted to reflect the 2024 RPS target.

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Meridian South Campus Traffic Impact Analysis by Urban Crossroads, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The energy use for all warehouses have been adjusted to reflect the CalEEMod default energy use for Unrefrigerated Warehouse - No Rail.

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	180.00	0.00
tblEnergyUse	LightingElect	2.37	1.17
tblEnergyUse	NT24E	36.52	0.82
tblEnergyUse	NT24NG	48.51	0.03
tblEnergyUse	T24E	1.06	0.37
tblEnergyUse	T24NG	3.25	2.00
tblFleetMix	HHD	0.07	0.63
tblFleetMix	HHD	0.07	0.63
tblFleetMix	HHD	0.07	0.63
tblFleetMix	LDA	0.55	0.00

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.01	0.17
tblFleetMix	LHD1	0.01	0.17
tblFleetMix	LHD1	0.01	0.17
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	MHD	0.02	0.21
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.4130e-003	0.00

tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblLandUse	LandUseSquareFeet	15,480.00	15,485.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	10.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	482.54
tblVehicleEF	HHD	0.94	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.04	8.38
tblVehicleEF	HHD	0.42	0.22
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tblVehicleEF	HHD	1,397.92	1,236.09
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tblVehicleEF	HHD	17.19	6.79

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tblVehicleEF	HHD	3.7000e-005	0.00
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tblVehicleEF	HHD	1.5100e-004	2.0200e-004
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
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tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5100e-004	2.0200e-004

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tblVehicleEF	HHD	4.9160e-003	0.03
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tblVehicleEF	HHD	8.0000e-005	2.0000e-006
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tblVehicleEF	HHD	3.7000e-005	0.00
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
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tblVehicleEF	HHD	3.5000e-005	1.0000e-006
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tblVehicleEF	LDA	0.88	1.94

tblVehicleEF	LDA	226.07	242.29
tblVehicleEF	LDA	52.35	49.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.6660e-003	6.2520e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.2630e-003	2.3970e-003
tblVehicleEF	LDA	5.3800e-004	4.9400e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
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tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.19
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tblVehicleEF	LDA	0.59	0.67
tblVehicleEF	LDA	0.77	1.71
tblVehicleEF	LDA	246.14	263.37
tblVehicleEF	LDA	52.35	49.48

tblVehicleEF	LDA	0.04	0.03
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tblVehicleEF	LDA	2.2240e-003	1.6900e-003
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tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	8.6630e-003	7.0570e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.4650e-003	2.6050e-003
tblVehicleEF	LDA	5.3600e-004	4.9000e-004
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.9510e-003	1.6620e-003
tblVehicleEF	LDA	3.7940e-003	0.04
tblVehicleEF	LDA	0.45	0.51
tblVehicleEF	LDA	0.90	1.98
tblVehicleEF	LDA	220.50	236.51
tblVehicleEF	LDA	52.35	49.99
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003

tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.4050e-003	6.0400e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2070e-003	2.3400e-003
tblVehicleEF	LDA	5.3800e-004	4.9500e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7910e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	8.3780e-003	5.2640e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.09	1.16
tblVehicleEF	LDT1	2.45	2.17
tblVehicleEF	LDT1	285.86	290.48
tblVehicleEF	LDT1	66.26	60.86
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003

tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8710e-003	2.8740e-003
tblVehicleEF	LDT1	7.0500e-004	6.0200e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	9.4770e-003	5.9510e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.31	1.40
tblVehicleEF	LDT1	2.16	1.92
tblVehicleEF	LDT1	310.62	312.92
tblVehicleEF	LDT1	66.26	60.33
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.33	0.33

tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.14	0.28
tblVehicleEF	LDT1	3.1220e-003	3.0970e-003
tblVehicleEF	LDT1	7.0000e-004	5.9700e-004
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	8.0590e-003	5.0610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.02	1.08
tblVehicleEF	LDT1	2.50	2.22
tblVehicleEF	LDT1	278.41	283.64
tblVehicleEF	LDT1	66.26	60.97
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.7960e-003	2.8070e-003
tblVehicleEF	LDT1	7.0600e-004	6.0300e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	4.4370e-003	3.0680e-003
tblVehicleEF	LDT2	5.1650e-003	0.06
tblVehicleEF	LDT2	0.65	0.78
tblVehicleEF	LDT2	1.18	2.47
tblVehicleEF	LDT2	319.11	303.53
tblVehicleEF	LDT2	73.38	63.90
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40

tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1960e-003	3.0030e-003
tblVehicleEF	LDT2	7.5300e-004	6.3200e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	5.0280e-003	3.4890e-003
tblVehicleEF	LDT2	4.4840e-003	0.05
tblVehicleEF	LDT2	0.80	0.96
tblVehicleEF	LDT2	1.04	2.19
tblVehicleEF	LDT2	347.22	324.77
tblVehicleEF	LDT2	73.38	63.35
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	3.4790e-003	3.2130e-003

tblVehicleEF	LDT2	7.5100e-004	6.2700e-004
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.25
tblVehicleEF	LDT2	4.2650e-003	2.9430e-003
tblVehicleEF	LDT2	5.3220e-003	0.06
tblVehicleEF	LDT2	0.61	0.73
tblVehicleEF	LDT2	1.21	2.53
tblVehicleEF	LDT2	310.62	297.05
tblVehicleEF	LDT2	73.38	64.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1100e-003	2.9390e-003
tblVehicleEF	LDT2	7.5400e-004	6.3400e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LHD1	4.8080e-003	4.5140e-003
tblVehicleEF	LHD1	7.7330e-003	3.9530e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.87
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.76	1.18
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5250e-003
tblVehicleEF	LHD1	7.8700e-003	4.0100e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.74	0.54
tblVehicleEF	LHD1	1.92	0.83
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.08
tblVehicleEF	LHD1	28.79	9.95
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.65	1.11
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7750e-003	5.9720e-003
tblVehicleEF	LHD1	3.2400e-004	9.8000e-005
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5130e-003
tblVehicleEF	LHD1	7.7230e-003	3.9460e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17

tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.88
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.74	1.16
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.1640e-003	2.9170e-003
tblVehicleEF	LHD2	3.1560e-003	3.0330e-003
tblVehicleEF	LHD2	6.0040e-003	7.4140e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.98	0.50
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.10	1.31
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9240e-003
tblVehicleEF	LHD2	3.1850e-003	3.0520e-003
tblVehicleEF	LHD2	5.8080e-003	7.1660e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.94	0.48
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.66
tblVehicleEF	LHD2	22.65	6.85
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	1.23
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4300e-004	6.8000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9160e-003
tblVehicleEF	LHD2	3.1490e-003	3.0280e-003
tblVehicleEF	LHD2	6.0380e-003	7.4680e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.99	0.51

tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.09	1.29
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.06

tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.52	18.66
tblVehicleEF	MCY	9.72	8.60
tblVehicleEF	MCY	167.91	208.37
tblVehicleEF	MCY	44.95	59.78
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.0440e-003	2.0620e-003
tblVehicleEF	MCY	6.6800e-004	5.9200e-004
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.22	1.96

tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.21	19.32
tblVehicleEF	MCY	9.09	8.01
tblVehicleEF	MCY	167.91	209.35
tblVehicleEF	MCY	44.95	58.19
tblVehicleEF	MCY	0.97	0.97
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.10	2.11
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.0540e-003	2.0720e-003
tblVehicleEF	MCY	6.5200e-004	5.7600e-004
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	18.09	18.23
tblVehicleEF	MCY	9.70	8.56
tblVehicleEF	MCY	167.91	207.67
tblVehicleEF	MCY	44.95	59.73
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.6800e-004	5.9100e-004
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MDV	9.0280e-003	3.8660e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.88
tblVehicleEF	MDV	2.38	2.80

tblVehicleEF	MDV	444.64	380.99
tblVehicleEF	MDV	101.02	79.79
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.18	0.34
tblVehicleEF	MDV	4.4520e-003	3.7660e-003
tblVehicleEF	MDV	1.0520e-003	7.9000e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.37
tblVehicleEF	MDV	0.01	4.4030e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.31	1.08
tblVehicleEF	MDV	2.10	2.47
tblVehicleEF	MDV	482.68	403.42
tblVehicleEF	MDV	101.02	79.12

tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.15	0.29
tblVehicleEF	MDV	4.8360e-003	3.9880e-003
tblVehicleEF	MDV	1.0460e-003	7.8300e-004
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	8.6740e-003	3.7110e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.00	0.82
tblVehicleEF	MDV	2.43	2.87
tblVehicleEF	MDV	433.14	374.20
tblVehicleEF	MDV	101.02	79.93
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003

tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	4.3370e-003	3.6990e-003
tblVehicleEF	MDV	1.0530e-003	7.9100e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.95	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.38	4.04
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.09	0.08
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tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.75	0.32
tblVehicleEF	MH	4.61	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.28	3.81
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	9.8840e-003	8.7110e-003
tblVehicleEF	MH	6.5000e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.99	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.37	4.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.32	0.00
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tblVehicleEF	MHD	2.3370e-003	1.1890e-003
tblVehicleEF	MHD	0.04	8.2020e-003
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tblVehicleEF	MHD	0.19	0.16
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tblVehicleEF	MHD	1,057.85	926.26
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tblVehicleEF	MHD	0.47	0.90
tblVehicleEF	MHD	1.1800e-004	3.6800e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	1.1300e-004	3.5200e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.4340e-003	6.4100e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2000e-004	8.2000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	0.02	3.0810e-003
tblVehicleEF	MHD	2.3650e-003	1.2070e-003
tblVehicleEF	MHD	0.04	7.9360e-003

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tblVehicleEF	MHD	0.20	0.16
tblVehicleEF	MHD	4.45	0.88
tblVehicleEF	MHD	157.97	67.48
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.21
tblVehicleEF	MHD	0.42	0.38
tblVehicleEF	MHD	0.44	0.85
tblVehicleEF	MHD	1.0000e-004	3.1300e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	9.5000e-005	3.0000e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.28	0.04
tblVehicleEF	MHD	1.5170e-003	6.4000e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02

tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.30	0.05
tblVehicleEF	MHD	0.02	3.4620e-003
tblVehicleEF	MHD	2.3160e-003	1.1760e-003
tblVehicleEF	MHD	0.04	8.2760e-003
tblVehicleEF	MHD	0.44	0.42
tblVehicleEF	MHD	0.19	0.15
tblVehicleEF	MHD	4.73	0.93
tblVehicleEF	MHD	136.93	67.69
tblVehicleEF	MHD	1,057.85	926.25
tblVehicleEF	MHD	53.85	8.31
tblVehicleEF	MHD	0.39	0.40
tblVehicleEF	MHD	0.46	0.89
tblVehicleEF	MHD	1.4400e-004	4.4400e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	1.3800e-004	4.2500e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.10

tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.3190e-003	6.4200e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2100e-004	8.2000e-005
tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.32	0.05
tblVehicleEF	OBUS	0.01	8.5080e-003
tblVehicleEF	OBUS	5.0590e-003	4.2530e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.25	2.37
tblVehicleEF	OBUS	68.87	68.87
tblVehicleEF	OBUS	1,088.96	1,309.02
tblVehicleEF	OBUS	69.21	19.83
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.36	0.82
tblVehicleEF	OBUS	1.2000e-005	8.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	8.0000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003

tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	6.6900e-004	6.5700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8400e-004	1.9600e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	0.01	8.5790e-003
tblVehicleEF	OBUS	5.1570e-003	4.3450e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.35	0.53
tblVehicleEF	OBUS	4.91	2.22
tblVehicleEF	OBUS	71.95	68.13
tblVehicleEF	OBUS	1,088.96	1,309.04
tblVehicleEF	OBUS	69.21	19.57

tblVehicleEF	OBUS	0.14	0.24
tblVehicleEF	OBUS	0.33	0.76
tblVehicleEF	OBUS	1.0000e-005	7.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	7.1000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9900e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7800e-004	1.9400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	0.01	8.4380e-003
tblVehicleEF	OBUS	5.0420e-003	4.2250e-003

tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.51
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.30	2.40
tblVehicleEF	OBUS	64.61	69.89
tblVehicleEF	OBUS	1,088.96	1,309.01
tblVehicleEF	OBUS	69.21	19.87
tblVehicleEF	OBUS	0.13	0.27
tblVehicleEF	OBUS	0.36	0.81
tblVehicleEF	OBUS	1.5000e-005	9.6000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.4000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	6.2900e-004	6.6700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9700e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	9.0390e-003	5.9240e-003
tblVehicleEF	SBUS	0.06	7.2340e-003
tblVehicleEF	SBUS	7.86	3.17
tblVehicleEF	SBUS	0.55	0.48
tblVehicleEF	SBUS	6.35	0.94
tblVehicleEF	SBUS	1,119.53	360.62
tblVehicleEF	SBUS	1,088.21	1,081.74
tblVehicleEF	SBUS	55.65	6.13
tblVehicleEF	SBUS	8.21	3.27
tblVehicleEF	SBUS	3.64	4.25
tblVehicleEF	SBUS	7.3700e-003	3.1780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	7.0510e-003	3.0400e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37

tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.35	0.04
tblVehicleEF	SBUS	0.01	3.4450e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6700e-004	6.1000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	9.1700e-003	5.9920e-003
tblVehicleEF	SBUS	0.05	6.0650e-003
tblVehicleEF	SBUS	7.76	3.13
tblVehicleEF	SBUS	0.56	0.49
tblVehicleEF	SBUS	4.60	0.68
tblVehicleEF	SBUS	1,169.74	369.09
tblVehicleEF	SBUS	1,088.21	1,081.75
tblVehicleEF	SBUS	55.65	5.70
tblVehicleEF	SBUS	8.48	3.34
tblVehicleEF	SBUS	3.42	4.00
tblVehicleEF	SBUS	6.2130e-003	2.6870e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	5.9440e-003	2.5700e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.01	3.5250e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3700e-004	5.6000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.32	0.04
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	8.9970e-003	5.9160e-003
tblVehicleEF	SBUS	0.06	7.4960e-003
tblVehicleEF	SBUS	8.01	3.22

tblVehicleEF	SBUS	0.55	0.48
tblVehicleEF	SBUS	6.70	0.98
tblVehicleEF	SBUS	1,050.20	348.92
tblVehicleEF	SBUS	1,088.21	1,081.74
tblVehicleEF	SBUS	55.65	6.21
tblVehicleEF	SBUS	7.85	3.17
tblVehicleEF	SBUS	3.60	4.22
tblVehicleEF	SBUS	8.9680e-003	3.8560e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	8.5800e-003	3.6900e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.01	3.3350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.7300e-004	6.1000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
tblVehicleEF	SBUS	0.04	0.01

tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.09	26.11
tblVehicleEF	UBUS	13.03	1.46
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	17.32
tblVehicleEF	UBUS	3.44	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003

tblVehicleEF	UBUS	1.7600e-003	1.7100e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.15	0.08
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.15	26.11
tblVehicleEF	UBUS	11.17	1.24
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	16.95
tblVehicleEF	UBUS	3.21	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	0.02	2.8210e-003
tblVehicleEF	UBUS	0.12	0.01
tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
tblVehicleEF	UBUS	0.38	0.05
tblVehicleEF	UBUS	0.02	0.05

tblVehicleEF	UBUS	0.96	0.07
tblVehicleEF	UBUS	9.3630e-003	4.6650e-003
tblVehicleEF	UBUS	1.7280e-003	1.6800e-004
tblVehicleEF	UBUS	0.02	2.8210e-003
tblVehicleEF	UBUS	0.12	0.01
tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
tblVehicleEF	UBUS	1.71	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.08	26.11
tblVehicleEF	UBUS	13.21	1.45
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	17.30
tblVehicleEF	UBUS	3.42	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004

tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
tblVehicleEF	UBUS	1.7630e-003	1.7100e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.16	0.08
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	60.00
tblVehicleTrips	CW_TL	16.60	60.00
tblVehicleTrips	CW_TL	16.60	60.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PR_TP	92.00	90.00

tblVehicleTrips	PR_TP	92.00	90.00
tblVehicleTrips	PR_TP	92.00	90.00
tblVehicleTrips	ST_TR	1.68	0.59
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	ST_TR	1.68	1.72
tblVehicleTrips	SU_TR	1.68	0.59
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	1.72
tblVehicleTrips	WD_TR	1.68	0.59
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	1.68	0.64
tblVehicleTrips	WD_TR	1.68	1.72

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	10.8158	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.0276	0.2505	0.2104	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	1,606.8338	1,606.8338	0.0854	0.0216	1,615.4023
Mobile	1.7947	111.1647	20.5692	0.5818	22.7278	1.1603	23.8882	6.3995	1.1099	7.5095	0.0000	56,030.0647	56,030.0647	0.6627	0.0000	56,046.6317
Offroad	0.1996	1.7758	1.3711	5.7800e-003		0.0649	0.0649		0.0597	0.0597	0.0000	507.6954	507.6954	0.1642	0.0000	511.8003
Waste						0.0000	0.0000		0.0000	0.0000	480.3274	0.0000	480.3274	28.3865	0.0000	1,189.9907
Water						0.0000	0.0000		0.0000	0.0000	183.7762	1,652.6276	1,836.4038	18.9749	0.4662	2,449.7164
Total	**12.8376**	**113.1913**	**22.1848**	**0.5891**	**22.7278**	**1.2444**	**23.9722**	**6.3995**	**1.1888**	**7.5883**	**664.1035**	**59,797.2880**	**60,461.3915**	**48.2739**	**0.4878**	**61,813.6122**

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	10.8158	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.0276	0.2505	0.2104	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	1,606.8338	1,606.8338	0.0854	0.0216	1,615.4023
Mobile	1.7947	111.1647	20.5692	0.5818	22.7278	1.1603	23.8882	6.3995	1.1099	7.5095	0.0000	56,030.0647	56,030.0647	0.6627	0.0000	56,046.6317
Offroad	0.1996	1.7758	1.3711	5.7800e-003		0.0649	0.0649		0.0597	0.0597	0.0000	507.6954	507.6954	0.1642	0.0000	511.8003
Waste						0.0000	0.0000		0.0000	0.0000	480.3274	0.0000	480.3274	28.3865	0.0000	1,189.9907
Water						0.0000	0.0000		0.0000	0.0000	183.7762	1,652.6276	1,836.4038	18.9749	0.4662	2,449.7164
Total	**12.8376**	**113.1913**	**22.1848**	**0.5891**	**22.7278**	**1.2444**	**23.9722**	**6.3995**	**1.1888**	**7.5883**	**664.1035**	**59,797.2880**	**60,461.3915**	**48.2739**	**0.4878**	**61,813.6122**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2020	6/30/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 162.8

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
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	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 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	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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**

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 Site Preparation - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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 Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	1.7947	111.1647	20.5692	0.5818	22.7278	1.1603	23.8882	6.3995	1.1099	7.5095	0.0000	56,030.0647	56,030.0647	0.6627	0.0000	56,046.6317
Unmitigated	1.7947	111.1647	20.5692	0.5818	22.7278	1.1603	23.8882	6.3995	1.1099	7.5095	0.0000	56,030.0647	56,030.0647	0.6627	0.0000	56,046.6317

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	592.00	592.00	592.00	11,638,507	11,638,507
Regional Shopping Center	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	320.00	320.00	320.00	6,291,085	6,291,085
Unrefrigerated Warehouse-Rail	1,720.00	1,720.00	1720.00	33,814,581	33,814,581
Total	2,632.00	2,632.00	2,632.00	51,744,172	51,744,172

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No Rail	60.00	8.40	6.90	100.00	0.00	0.00	90	0	10
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Unrefrigerated Warehouse-No Rail	60.00	8.40	6.90	100.00	0.00	0.00	90	0	10
Unrefrigerated Warehouse-Rail	60.00	8.40	6.90	100.00	0.00	0.00	90	0	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.167000	0.000000	0.207000	0.626000	0.000000	0.000000	0.000000	0.000000	0.000000
Regional Shopping Center	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.167000	0.000000	0.207000	0.626000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.167000	0.000000	0.207000	0.626000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Meridian South Campus - Built/Entitled (Operations - Trucks) - Riverside-South Coast 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	1,334.1780	1,334.1780	0.0802	0.0166	1,341.1262
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,334.1780	1,334.1780	0.0802	0.0166	1,341.1262
NaturalGas Mitigated	0.0276	0.2505	0.2104	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	272.6558	272.6558	5.2300e-003	5.0000e-003	274.2761
NaturalGas Unmitigated	0.0276	0.2505	0.2104	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	272.6558	272.6558	5.2300e-003	5.0000e-003	274.2761

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.03e+006	0.0110	0.0995	0.0836	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.3285	108.3285	2.0800e-003	1.9900e-003	108.9723
Regional Shopping Center	34376.7	1.9000e-004	1.6900e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8345	1.8345	4.0000e-005	3.0000e-005	1.8454
Unrefrigerated Warehouse-No Rail	1.015e+006	5.4700e-003	0.0498	0.0418	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003	0.0000	54.1643	54.1643	1.0400e-003	9.9000e-004	54.4861
Unrefrigerated Warehouse-Rail	2.03e+006	0.0110	0.0995	0.0836	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.3285	108.3285	2.0800e-003	1.9900e-003	108.9723
Total		**0.0276**	**0.2505**	**0.2104**	**1.5100e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**272.6558**	**272.6558**	**5.2400e-003**	**5.0000e-003**	**274.2761**

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.03e+006	0.0110	0.0995	0.0836	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.3285	108.3285	2.0800e-003	1.9900e-003	108.9723
Regional Shopping Center	34376.7	1.9000e-004	1.6900e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8345	1.8345	4.0000e-005	3.0000e-005	1.8454
Unrefrigerated Warehouse-No Rail	1.015e+006	5.4700e-003	0.0498	0.0418	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003	0.0000	54.1643	54.1643	1.0400e-003	9.9000e-004	54.4861
Unrefrigerated Warehouse-Rail	2.03e+006	0.0110	0.0995	0.0836	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.3285	108.3285	2.0800e-003	1.9900e-003	108.9723
Total		**0.0276**	**0.2505**	**0.2104**	**1.5100e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**272.6558**	**272.6558**	**5.2400e-003**	**5.0000e-003**	**274.2761**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.36e+006	516.5485	0.0310	6.4200e-003	519.2386
Regional Shopping Center	195576	42.8069	2.5700e-003	5.3000e-004	43.0298
Unrefrigerated Warehouse-No Rail	1.18e+006	258.2742	0.0155	3.2100e-003	259.6193
Unrefrigerated Warehouse-Rail	2.36e+006	516.5485	0.0310	6.4200e-003	519.2386
Total		**1,334.1780**	**0.0802**	**0.0166**	**1,341.1262**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.36e+006	516.5485	0.0310	6.4200e-003	519.2386
Regional Shopping Center	195576	42.8069	2.5700e-003	5.3000e-004	43.0298
Unrefrigerated Warehouse-No Rail	1.18e+006	258.2742	0.0155	3.2100e-003	259.6193
Unrefrigerated Warehouse-Rail	2.36e+006	516.5485	0.0310	6.4200e-003	519.2386
Total		**1,334.1780**	**0.0802**	**0.0166**	**1,341.1262**

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	10.8158	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Unmitigated	10.8158	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

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	1.2645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.5481					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1500e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	**10.8158**	**3.1000e-004**	**0.0341**	**0.0000**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**0.0665**	**0.0665**	**1.7000e-004**	**0.0000**	**0.0708**

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	1.2645					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.5481					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1500e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	**10.8158**	**3.1000e-004**	**0.0341**	**0.0000**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**0.0665**	**0.0665**	**1.7000e-004**	**0.0000**	**0.0708**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,836.4038	18.9749	0.4662	2,449.7164
Unmitigated	1,836.4038	18.9749	0.4662	2,449.7164

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	231.25 / 0	732.4252	7.5749	0.1861	977.2611
Regional Shopping Center	1.14664 / 0.702781	5.3407	0.0377	9.4000e-004	6.5636
Unrefrigerated Warehouse-No Rail	115.625 / 0	366.2126	3.7875	0.0931	488.6306
Unrefrigerated Warehouse-Rail	231.25 / 0	732.4252	7.5749	0.1861	977.2611
Total		**1,836.4038**	**18.9749**	**0.4662**	**2,449.7164**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	231.25 / 0	732.4252	7.5749	0.1861	977.2611
Regional Shopping Center	1.14664 / 0.702781	5.3407	0.0377	9.4000e-004	6.5636
Unrefrigerated Warehouse-No Rail	115.625 / 0	366.2126	3.7875	0.0931	488.6306
Unrefrigerated Warehouse-Rail	231.25 / 0	732.4252	7.5749	0.1861	977.2611
Total		**1,836.4038**	**18.9749**	**0.4662**	**2,449.7164**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	480.3274	28.3865	0.0000	1,189.9907
Unmitigated	480.3274	28.3865	0.0000	1,189.9907

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	940	190.8115	11.2766	0.0000	472.7274
Regional Shopping Center	16.25	3.2986	0.1949	0.0000	8.1722
Unrefrigerated Warehouse-No Rail	470	95.4058	5.6383	0.0000	236.3637
Unrefrigerated Warehouse-Rail	940	190.8115	11.2766	0.0000	472.7274
Total		**480.3274**	**28.3865**	**0.0000**	**1,189.9907**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	940	190.8115	11.2766	0.0000	472.7274
Regional Shopping Center	16.25	3.2986	0.1949	0.0000	8.1722
Unrefrigerated Warehouse-No Rail	470	95.4058	5.6383	0.0000	236.3637
Unrefrigerated Warehouse-Rail	940	190.8115	11.2766	0.0000	472.7274
Total		**480.3274**	**28.3865**	**0.0000**	**1,189.9907**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	10	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.1996	1.7758	1.3711	5.7800e-003		0.0649	0.0649		0.0597	0.0597	0.0000	507.6954	507.6954	0.1642	0.0000	511.8003
Total	**0.1996**	**1.7758**	**1.3711**	**5.7800e-003**		**0.0649**	**0.0649**		**0.0597**	**0.0597**	**0.0000**	**507.6954**	**507.6954**	**0.1642**	**0.0000**	**511.8003**

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 5.6:

CALEEMOD OPERATIONAL EMISSIONS MODEL OUTPUTS (2003 FOCUSED EIR)

Meridian South Campus - 2003 EIR Phase III (Building Operations)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	140.57	1000sqft	3.23	140,570.00	0
Research & Development	1,688.06	1000sqft	38.75	1,688,060.00	0
Industrial Park	4,530.08	1000sqft	104.00	4,530,080.00	0
Manufacturing	215.62	1000sqft	4.95	215,620.00	0
Unrefrigerated Warehouse-No Rail	1,379.24	1000sqft	31.66	1,379,240.00	0
City Park	50.75	Acre	50.75	2,210,670.00	0
Regional Shopping Center	108.90	1000sqft	2.50	108,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	482.54	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e Intensity Factor has been adjusted to reflect the 2024 RPS target.

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Building Operations Run Only.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	300.00	0.00
tblEnergyUse	LightingElect	3.66	2.56
tblEnergyUse	LightingElect	3.66	2.56
tblEnergyUse	LightingElect	2.93	2.05
tblEnergyUse	LightingElect	5.61	3.93
tblEnergyUse	LightingElect	2.93	2.05
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	3.07	2.15
tblEnergyUse	T24E	3.07	2.15
tblEnergyUse	T24E	2.20	1.54
tblEnergyUse	T24E	4.58	3.21
tblEnergyUse	T24E	2.20	1.54
tblEnergyUse	T24E	0.37	0.26

tblEnergyUse	T24NG	3.47	2.43
tblEnergyUse	T24NG	3.47	2.43
tblEnergyUse	T24NG	15.36	10.75
tblEnergyUse	T24NG	1.92	1.34
tblEnergyUse	T24NG	15.36	10.75
tblEnergyUse	T24NG	2.00	1.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	28.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	482.54
tblVehicleEF	HHD	0.94	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.04	8.38
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.44	2.4500e-003
tblVehicleEF	HHD	6,063.49	1,353.52
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.19	6.79
tblVehicleEF	HHD	0.95	1.93
tblVehicleEF	HHD	4.7470e-003	2.6990e-003

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	4.5410e-003	2.5820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
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tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.62	0.65
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.89	0.03

tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	1.48	8.27
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.37	2.3220e-003
tblVehicleEF	HHD	6,423.73	1,336.26
tblVehicleEF	HHD	1,397.92	1,236.09
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tblVehicleEF	HHD	17.75	6.46
tblVehicleEF	HHD	0.90	1.82
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tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	3.8290e-003	2.2820e-003
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tblVehicleEF	HHD	8.8590e-003	8.8930e-003
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tblVehicleEF	HHD	8.0000e-005	2.0000e-006
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tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.03	1.0000e-006

tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.0000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
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tblVehicleEF	HHD	8.0000e-005	2.0000e-006
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tblVehicleEF	HHD	1.5300e-004	2.0400e-004
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tblVehicleEF	HHD	1.45	2.4460e-003
tblVehicleEF	HHD	5,566.02	1,373.00
tblVehicleEF	HHD	1,397.92	1,223.81
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	16.43	7.22
tblVehicleEF	HHD	0.95	1.91
tblVehicleEF	HHD	5.7750e-003	3.0950e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	5.5250e-003	2.9620e-003

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8580e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
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tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
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tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
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tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.6660e-003	6.2520e-003
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tblVehicleEF	LDA	0.05	0.17
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tblVehicleEF	LDA	0.03	0.04
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tblVehicleEF	LDA	0.05	0.19
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tblVehicleEF	LDA	0.77	1.71
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tblVehicleEF	LDA	52.35	49.48
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003

tblVehicleEF	LDA	2.2240e-003	1.6900e-003
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	8.6630e-003	7.0570e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.4650e-003	2.6050e-003
tblVehicleEF	LDA	5.3600e-004	4.9000e-004
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
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tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
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tblVehicleEF	LDA	5.3800e-004	4.9500e-004
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tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
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tblVehicleEF	LDT1	66.26	60.86
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tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.17	0.17

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tblVehicleEF	LDT1	0.28	0.21
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tblVehicleEF	LDT1	0.22	0.23

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tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.14	0.28
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tblVehicleEF	LDT1	7.0000e-004	5.9700e-004
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tblVehicleEF	LDT1	0.03	0.04
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tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.19	0.79

tblVehicleEF	LDT1	0.17	0.32
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tblVehicleEF	LDT1	7.0600e-004	6.0300e-004
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tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
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tblVehicleEF	LDT2	4.4370e-003	3.0680e-003
tblVehicleEF	LDT2	5.1650e-003	0.06
tblVehicleEF	LDT2	0.65	0.78
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tblVehicleEF	LDT2	73.38	63.90
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
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tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
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tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.26
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tblVehicleEF	LDT2	7.5300e-004	6.3200e-004
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tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	5.0280e-003	3.4890e-003
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tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
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tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.06	0.22
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tblVehicleEF	LDT2	7.5100e-004	6.2700e-004
tblVehicleEF	LDT2	0.12	0.19

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.25
tblVehicleEF	LDT2	4.2650e-003	2.9430e-003
tblVehicleEF	LDT2	5.3220e-003	0.06
tblVehicleEF	LDT2	0.61	0.73
tblVehicleEF	LDT2	1.21	2.53
tblVehicleEF	LDT2	310.62	297.05
tblVehicleEF	LDT2	73.38	64.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1100e-003	2.9390e-003
tblVehicleEF	LDT2	7.5400e-004	6.3400e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LHD1	4.8080e-003	4.5140e-003
tblVehicleEF	LHD1	7.7330e-003	3.9530e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.87
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.76	1.18
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.07	0.05

tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5250e-003
tblVehicleEF	LHD1	7.8700e-003	4.0100e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.74	0.54
tblVehicleEF	LHD1	1.92	0.83
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.08
tblVehicleEF	LHD1	28.79	9.95
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.65	1.11
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004

tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7750e-003	5.9720e-003
tblVehicleEF	LHD1	3.2400e-004	9.8000e-005
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5130e-003
tblVehicleEF	LHD1	7.7230e-003	3.9460e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.88

tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.74	1.16
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003

tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.1640e-003	2.9170e-003
tblVehicleEF	LHD2	3.1560e-003	3.0330e-003
tblVehicleEF	LHD2	6.0040e-003	7.4140e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.98	0.50
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.10	1.31
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9240e-003
tblVehicleEF	LHD2	3.1850e-003	3.0520e-003
tblVehicleEF	LHD2	5.8080e-003	7.1660e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.94	0.48
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.66
tblVehicleEF	LHD2	22.65	6.85
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	1.23
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003

tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4300e-004	6.8000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9160e-003
tblVehicleEF	LHD2	3.1490e-003	3.0280e-003
tblVehicleEF	LHD2	6.0380e-003	7.4680e-003
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tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.99	0.51
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65

tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.09	1.29
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.09	0.04

tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.52	18.66
tblVehicleEF	MCY	9.72	8.60
tblVehicleEF	MCY	167.91	208.37
tblVehicleEF	MCY	44.95	59.78
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.0440e-003	2.0620e-003
tblVehicleEF	MCY	6.6800e-004	5.9200e-004
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.13	0.21

tblVehicleEF	MCY	19.21	19.32
tblVehicleEF	MCY	9.09	8.01
tblVehicleEF	MCY	167.91	209.35
tblVehicleEF	MCY	44.95	58.19
tblVehicleEF	MCY	0.97	0.97
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.10	2.11
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.0540e-003	2.0720e-003
tblVehicleEF	MCY	6.5200e-004	5.7600e-004
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.09	18.23
tblVehicleEF	MCY	9.70	8.56

tblVehicleEF	MCY	167.91	207.67
tblVehicleEF	MCY	44.95	59.73
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.6800e-004	5.9100e-004
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MDV	9.0280e-003	3.8660e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.88
tblVehicleEF	MDV	2.38	2.80
tblVehicleEF	MDV	444.64	380.99
tblVehicleEF	MDV	101.02	79.79

tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.18	0.34
tblVehicleEF	MDV	4.4520e-003	3.7660e-003
tblVehicleEF	MDV	1.0520e-003	7.9000e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.37
tblVehicleEF	MDV	0.01	4.4030e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.31	1.08
tblVehicleEF	MDV	2.10	2.47
tblVehicleEF	MDV	482.68	403.42
tblVehicleEF	MDV	101.02	79.12
tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	1.6570e-003	1.3760e-003

tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.15	0.29
tblVehicleEF	MDV	4.8360e-003	3.9880e-003
tblVehicleEF	MDV	1.0460e-003	7.8300e-004
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	8.6740e-003	3.7110e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.00	0.82
tblVehicleEF	MDV	2.43	2.87
tblVehicleEF	MDV	433.14	374.20
tblVehicleEF	MDV	101.02	79.93
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003

tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	4.3370e-003	3.6990e-003
tblVehicleEF	MDV	1.0530e-003	7.9100e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.95	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.38	4.04
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12

tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.75	0.32
tblVehicleEF	MH	4.61	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.28	3.81
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12

tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	9.8840e-003	8.7110e-003
tblVehicleEF	MH	6.5000e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.99	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.37	4.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00
tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12

tblVehicleEF	MH	8.6100e-004	0.00
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tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
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tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.32	0.00
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tblVehicleEF	MHD	2.3370e-003	1.1890e-003
tblVehicleEF	MHD	0.04	8.2020e-003
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tblVehicleEF	MHD	0.19	0.16
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tblVehicleEF	MHD	149.14	67.57
tblVehicleEF	MHD	1,057.85	926.26
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tblVehicleEF	MHD	0.47	0.90
tblVehicleEF	MHD	1.1800e-004	3.6800e-004

tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
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tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.4340e-003	6.4100e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2000e-004	8.2000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	0.02	3.0810e-003
tblVehicleEF	MHD	2.3650e-003	1.2070e-003
tblVehicleEF	MHD	0.04	7.9360e-003
tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.20	0.16

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tblVehicleEF	MHD	157.97	67.48
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.21
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tblVehicleEF	MHD	0.44	0.85
tblVehicleEF	MHD	1.0000e-004	3.1300e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
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tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.28	0.04
tblVehicleEF	MHD	1.5170e-003	6.4000e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.03	0.01

tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.30	0.05
tblVehicleEF	MHD	0.02	3.4620e-003
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tblVehicleEF	MHD	0.04	8.2760e-003
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tblVehicleEF	MHD	136.93	67.69
tblVehicleEF	MHD	1,057.85	926.25
tblVehicleEF	MHD	53.85	8.31
tblVehicleEF	MHD	0.39	0.40
tblVehicleEF	MHD	0.46	0.89
tblVehicleEF	MHD	1.4400e-004	4.4400e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.29	0.04
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tblVehicleEF	MHD	0.01	8.8240e-003
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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.03	0.01
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tblVehicleEF	OBUS	5.0590e-003	4.2530e-003
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tblVehicleEF	OBUS	0.35	0.52
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tblVehicleEF	OBUS	68.87	68.87
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tblVehicleEF	OBUS	0.36	0.82
tblVehicleEF	OBUS	1.2000e-005	8.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	8.0000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003

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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	6.6900e-004	6.5700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8400e-004	1.9600e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
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tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.03	0.03
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tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	0.01	8.5790e-003
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tblVehicleEF	OBUS	0.35	0.53
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tblVehicleEF	OBUS	71.95	68.13
tblVehicleEF	OBUS	1,088.96	1,309.04
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tblVehicleEF	OBUS	0.33	0.76

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tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	7.1000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
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tblVehicleEF	OBUS	0.03	0.05
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9900e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7800e-004	1.9400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
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tblVehicleEF	OBUS	0.04	0.06
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tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.34	0.12
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tblVehicleEF	OBUS	5.0420e-003	4.2250e-003
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tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
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tblVehicleEF	OBUS	0.03	0.04
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.28
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tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
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tblVehicleEF	SBUS	0.02	0.06
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tblVehicleEF	SBUS	0.32	0.04
tblVehicleEF	SBUS	0.81	0.08
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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
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tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
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tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
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tblVehicleEF	SBUS	0.02	0.08
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tblVehicleEF	SBUS	0.01	3.3350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.7300e-004	6.1000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
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tblVehicleEF	SBUS	2.4660e-003	7.4300e-004

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tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.09	26.11
tblVehicleEF	UBUS	13.03	1.46
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	17.32
tblVehicleEF	UBUS	3.44	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
tblVehicleEF	UBUS	1.7600e-003	1.7100e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003

tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.15	0.08
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.15	26.11
tblVehicleEF	UBUS	11.17	1.24
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	16.95
tblVehicleEF	UBUS	3.21	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	0.02	2.8210e-003
tblVehicleEF	UBUS	0.12	0.01
tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
tblVehicleEF	UBUS	0.38	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	0.96	0.07
tblVehicleEF	UBUS	9.3630e-003	4.6650e-003

tblVehicleEF	UBUS	1.7280e-003	1.6800e-004
tblVehicleEF	UBUS	0.02	2.8210e-003
tblVehicleEF	UBUS	0.12	0.01
tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
tblVehicleEF	UBUS	1.71	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.08	26.11
tblVehicleEF	UBUS	13.21	1.45
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	17.30
tblVehicleEF	UBUS	3.42	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.03	0.06

tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
tblVehicleEF	UBUS	1.7630e-003	1.7100e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.16	0.08
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_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	48.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	64.70	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

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	13.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	16.30	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00
tblVehicleTrips	PR_TP	79.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	54.00	0.00
tblVehicleTrips	PR_TP	82.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	1.90	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	0.73	0.00

tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	1.11	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	8.11	0.00
tblVehicleTrips	WD_TR	1.68	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	0.0000	0.0000	0.0000	0.0000	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	32.9010	9.4000e-004	0.1034	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.2014	0.2014	5.3000e-004	0.0000	0.2145
Energy	0.3590	3.2635	2.7413	0.0196		0.2480	0.2480		0.2480	0.2480	0.0000	15,609.3793	15,609.3793	0.7927	0.2151	15,693.2807
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
Offroad	0.5588	4.9724	3.8390	0.0162		0.1817	0.1817		0.1672	0.1672	0.0000	1,421.5470	1,421.5470	0.4598	0.0000	1,433.0410
Waste						0.0000	0.0000		0.0000	0.0000	1,534.3843	0.0000	1,534.3843	90.6795	0.0000	3,801.3722
Water						0.0000	0.0000		0.0000	0.0000	723.1649	6,692.7148	7,415.8797	74.6782	1.8370	9,830.2710
Total	**33.8188**	**8.2368**	**6.6837**	**0.0358**	**0.0000**	**0.4301**	**0.4301**	**0.0000**	**0.4156**	**0.4156**	**2,257.5492**	**23,723.8425**	**25,981.3917**	**166.6107**	**2.0521**	**30,758.1793**

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	32.9010	9.4000e-004	0.1034	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.2014	0.2014	5.3000e-004	0.0000	0.2145
Energy	0.3590	3.2635	2.7413	0.0196		0.2480	0.2480		0.2480	0.2480	0.0000	15,609.3793	15,609.3793	0.7927	0.2151	15,693.2807
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
Offroad	0.5588	4.9724	3.8390	0.0162		0.1817	0.1817		0.1672	0.1672	0.0000	1,421.5470	1,421.5470	0.4598	0.0000	1,433.0410
Waste						0.0000	0.0000		0.0000	0.0000	1,534.3843	0.0000	1,534.3843	90.6795	0.0000	3,801.3722
Water						0.0000	0.0000		0.0000	0.0000	723.1649	6,692.7148	7,415.8797	74.6782	1.8370	9,830.2710
Total	**33.8188**	**8.2368**	**6.6837**	**0.0358**	**0.0000**	**0.4301**	**0.4301**	**0.0000**	**0.4156**	**0.4156**	**2,257.5492**	**23,723.8425**	**25,981.3917**	**166.6107**	**2.0521**	**30,758.1793**

	ROG	NOx	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	7/1/2020	6/30/2020	5	0	

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	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**

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 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	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 Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	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		
General Office Building	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Manufacturing	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Research & Development	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Research & Development	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	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	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
General Office Building	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Industrial Park	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Manufacturing	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Regional Shopping Center	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Research & Development	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Unrefrigerated Warehouse-No Rail	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Meridian South Campus - 2003 EIR Phase III (Building Operations) - Riverside-South Coast 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	12,056.6737	12,056.6737	0.7246	0.1499	12,119.4632
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12,056.6737	12,056.6737	0.7246	0.1499	12,119.4632
NaturalGas Mitigated	0.3590	3.2635	2.7413	0.0196		0.2480	0.2480		0.2480	0.2480	0.0000	3,552.7055	3,552.7055	0.0681	0.0651	3,573.8175
NaturalGas Unmitigated	0.3590	3.2635	2.7413	0.0196		0.2480	0.2480		0.2480	0.2480	0.0000	3,552.7055	3,552.7055	0.0681	0.0651	3,573.8175

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
General Office Building	341585	1.8400e-003	0.0167	0.0141	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	18.2283	18.2283	3.5000e-004	3.3000e-004	18.3366
Industrial Park	1.10081e+007	0.0594	0.5396	0.4533	3.2400e-003		0.0410	0.0410		0.0410	0.0410	0.0000	587.4338	587.4338	0.0113	0.0108	590.9247
Manufacturing	6.01149e+006	0.0324	0.2947	0.2475	1.7700e-003		0.0224	0.0224		0.0224	0.0224	0.0000	320.7958	320.7958	6.1500e-003	5.8800e-003	322.7021
Regional Shopping Center	178596	9.6000e-004	8.7500e-003	7.3500e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.5306	9.5306	1.8000e-004	1.7000e-004	9.5872
Research & Development	4.70631e+007	0.2538	2.3070	1.9379	0.0138		0.1753	0.1753		0.1753	0.1753	0.0000	2,511.4669	2,511.4669	0.0481	0.0460	2,526.3913
Unrefrigerated Warehouse-No Rail	1.97231e+006	0.0106	0.0967	0.0812	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	105.2501	105.2501	2.0200e-003	1.9300e-003	105.8756
Total		**0.3590**	**3.2635**	**2.7413**	**0.0196**		**0.2480**	**0.2480**		**0.2480**	**0.2480**	**0.0000**	**3,552.7055**	**3,552.7055**	**0.0681**	**0.0651**	**3,573.8175**

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
General Office Building	341585	1.8400e-003	0.0167	0.0141	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	18.2283	18.2283	3.5000e-004	3.3000e-004	18.3366
Industrial Park	1.10081e+007	0.0594	0.5396	0.4533	3.2400e-003		0.0410	0.0410		0.0410	0.0410	0.0000	587.4338	587.4338	0.0113	0.0108	590.9247
Manufacturing	6.01149e+006	0.0324	0.2947	0.2475	1.7700e-003		0.0224	0.0224		0.0224	0.0224	0.0000	320.7958	320.7958	6.1500e-003	5.8800e-003	322.7021
Regional Shopping Center	178596	9.6000e-004	8.7500e-003	7.3500e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.5306	9.5306	1.8000e-004	1.7000e-004	9.5872
Research & Development	4.70631e+007	0.2538	2.3070	1.9379	0.0138		0.1753	0.1753		0.1753	0.1753	0.0000	2,511.4669	2,511.4669	0.0481	0.0460	2,526.3913
Unrefrigerated Warehouse-No Rail	1.97231e+006	0.0106	0.0967	0.0812	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	105.2501	105.2501	2.0200e-003	1.9300e-003	105.8756
Total		**0.3590**	**3.2635**	**2.7413**	**0.0196**		**0.2480**	**0.2480**		**0.2480**	**0.2480**	**0.0000**	**3,552.7055**	**3,552.7055**	**0.0681**	**0.0651**	**3,573.8175**

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
General Office Building	1.05428e+006	230.7560	0.0139	2.8700e-003	231.9577
Industrial Park	3.39756e+007	7,436.4591	0.4469	0.0925	7,475.1872
Manufacturing	1.85649e+006	406.3416	0.0244	5.0500e-003	408.4577
Regional Shopping Center	1.04326e+006	228.3455	0.0137	2.8400e-003	229.5347
Research & Development	1.45342e+007	3,181.1935	0.1912	0.0396	3,197.7607
Unrefrigerated Warehouse-No Rail	2.62056e+006	573.5780	0.0345	7.1300e-003	576.5651
Total		**12,056.6737**	**0.7246**	**0.1499**	**12,119.4632**

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
General Office Building	1.05428e+006	230.7560	0.0139	2.8700e-003	231.9577
Industrial Park	3.39756e+007	7,436.4591	0.4469	0.0925	7,475.1872
Manufacturing	1.85649e+006	406.3416	0.0244	5.0500e-003	408.4577
Regional Shopping Center	1.04326e+006	228.3455	0.0137	2.8400e-003	229.5347
Research & Development	1.45342e+007	3,181.1935	0.1912	0.0396	3,197.7607
Unrefrigerated Warehouse-No Rail	2.62056e+006	573.5780	0.0345	7.1300e-003	576.5651
Total		**12,056.6737**	**0.7246**	**0.1499**	**12,119.4632**

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	32.9010	9.4000e-004	0.1034	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.2014	0.2014	5.3000e-004	0.0000	0.2145
Unmitigated	32.9010	9.4000e-004	0.1034	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.2014	0.2014	5.3000e-004	0.0000	0.2145

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	3.7370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	29.1545					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5400e-003	9.4000e-004	0.1034	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.2014	0.2014	5.3000e-004	0.0000	0.2145
Total	**32.9010**	**9.4000e-004**	**0.1034**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**0.2014**	**0.2014**	**5.3000e-004**	**0.0000**	**0.2145**

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	3.7370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	29.1545					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.5400e-003	9.4000e-004	0.1034	1.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.2014	0.2014	5.3000e-004	0.0000	0.2145
Total	**32.9010**	**9.4000e-004**	**0.1034**	**1.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**0.2014**	**0.2014**	**5.3000e-004**	**0.0000**	**0.2145**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7,415.8797	74.6782	1.8370	9,830.2710
Unmitigated	7,415.8797	74.6782	1.8370	9,830.2710

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 60.4677	147.0403	8.8400e-003	1.8300e-003	147.8061
General Office Building	24.984 / 15.3128	116.3669	0.8206	0.0206	143.0127
Industrial Park	1047.58 / 0	3,317.9449	34.3149	0.8431	4,427.0710
Manufacturing	49.8621 / 0	157.9255	1.6333	0.0401	210.7170
Regional Shopping Center	8.0665 / 4.94398	37.5709	0.2650	6.6400e-003	46.1740
Research & Development	830.009 / 0	2,628.8409	27.1880	0.6680	3,507.6126
Unrefrigerated Warehouse-No Rail	318.949 / 0	1,010.1902	10.4476	0.2567	1,347.8776
Total		**7,415.8797**	**74.6782**	**1.8370**	**9,830.2710**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 60.4677	147.0403	8.8400e-003	1.8300e-003	147.8061
General Office Building	24.984 / 15.3128	116.3669	0.8206	0.0206	143.0127
Industrial Park	1047.58 / 0	3,317.9449	34.3149	0.8431	4,427.0710
Manufacturing	49.8621 / 0	157.9255	1.6333	0.0401	210.7170
Regional Shopping Center	8.0665 / 4.94398	37.5709	0.2650	6.6400e-003	46.1740
Research & Development	830.009 / 0	2,628.8409	27.1880	0.6680	3,507.6126
Unrefrigerated Warehouse-No Rail	318.949 / 0	1,010.1902	10.4476	0.2567	1,347.8776
Total		**7,415.8797**	**74.6782**	**1.8370**	**9,830.2710**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,534.3843	90.6795	0.0000	3,801.3722
Unmitigated	1,534.3843	90.6795	0.0000	3,801.3722

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	4.36	0.8850	0.0523	0.0000	2.1927
General Office Building	130.73	26.5370	1.5683	0.0000	65.7443
Industrial Park	5617.3	1,140.2611	67.3875	0.0000	2,824.9487
Manufacturing	267.37	54.2737	3.2075	0.0000	134.4608
Regional Shopping Center	114.35	23.2120	1.3718	0.0000	57.5068
Research & Development	128.28	26.0397	1.5389	0.0000	64.5122
Unrefrigerated Warehouse-No Rail	1296.49	263.1758	15.5532	0.0000	652.0068
Total		**1,534.3843**	**90.6795**	**0.0000**	**3,801.3722**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	4.36	0.8850	0.0523	0.0000	2.1927
General Office Building	130.73	26.5370	1.5683	0.0000	65.7443
Industrial Park	5617.3	1,140.2611	67.3875	0.0000	2,824.9487
Manufacturing	267.37	54.2737	3.2075	0.0000	134.4608
Regional Shopping Center	114.35	23.2120	1.3718	0.0000	57.5068
Research & Development	128.28	26.0397	1.5389	0.0000	64.5122
Unrefrigerated Warehouse-No Rail	1296.49	263.1758	15.5532	0.0000	652.0068
Total		**1,534.3843**	**90.6795**	**0.0000**	**3,801.3722**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	28	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.5588	4.9724	3.8390	0.0162		0.1817	0.1817		0.1672	0.1672	0.0000	1,421.5470	1,421.5470	0.4598	0.0000	1,433.0410
Total	**0.5588**	**4.9724**	**3.8390**	**0.0162**		**0.1817**	**0.1817**		**0.1672**	**0.1672**	**0.0000**	**1,421.5470**	**1,421.5470**	**0.4598**	**0.0000**	**1,433.0410**

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

Meridian South Campus - 2003 EIR Phase III (Operations - Passenger Cars)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	10,273.14	1000sqft	235.84	10,273,140.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	482.54	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e Intensity Factor has been adjusted to reflect the 2024 RPS target.

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Meridian South Campus Traffic Impact Analysis by Urban Crossroads, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating - Mobile Run Only.

Landscape Equipment - Mobile Run Only.

Energy Use - Mobile Run Only.

Water And Wastewater - Mobile Run Only.

Solid Waste - Mobile Run Only.

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Nonresidential_Exterior	5136550	0
tblAreaCoating	Area_Nonresidential_Interior	15409650	0
tblConstructionPhase	NumDays	300.00	0.00
tblEnergyUse	LightingElect	4.24	0.00
tblEnergyUse	NT24E	2.60	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	2.92	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblLandUse	LandUseSquareFeet	10,273,100.00	10,273,140.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	482.54
tblSolidWaste	SolidWasteGenerationRate	9,553.98	0.00
tblVehicleEF	HHD	0.94	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.04	8.38
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.44	2.4500e-003
tblVehicleEF	HHD	6,063.49	1,353.52
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.19	6.79

tblVehicleEF	HHD	0.95	1.93
tblVehicleEF	HHD	4.7470e-003	2.6990e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	4.5410e-003	2.5820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.54	0.57
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.62	0.65
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5100e-004	2.0200e-004

tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.89	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	1.48	8.27
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.37	2.3220e-003
tblVehicleEF	HHD	6,423.73	1,336.26
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.75	6.46
tblVehicleEF	HHD	0.90	1.82
tblVehicleEF	HHD	4.0020e-003	2.3850e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	3.8290e-003	2.2820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.51	0.60
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.05	0.02

tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.03	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.0000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.59	0.68
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.02	0.02
tblVehicleEF	HHD	0.03	8.7800e-004
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.81	8.50
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tblVehicleEF	HHD	1.45	2.4460e-003
tblVehicleEF	HHD	5,566.02	1,373.00
tblVehicleEF	HHD	1,397.92	1,223.81
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	16.43	7.22
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tblVehicleEF	HHD	5.7750e-003	3.0950e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03

tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	5.5250e-003	2.9620e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8580e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005
tblVehicleEF	HHD	0.58	0.52
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005
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tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.0560e-003	1.7230e-003
tblVehicleEF	LDA	3.6940e-003	0.04
tblVehicleEF	LDA	0.48	0.55
tblVehicleEF	LDA	0.88	1.94

tblVehicleEF	LDA	226.07	242.29
tblVehicleEF	LDA	52.35	49.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.6660e-003	6.2520e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.2630e-003	2.3970e-003
tblVehicleEF	LDA	5.3800e-004	4.9400e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.1010e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4590e-003	1.9630e-003
tblVehicleEF	LDA	3.2010e-003	0.04
tblVehicleEF	LDA	0.59	0.67
tblVehicleEF	LDA	0.77	1.71
tblVehicleEF	LDA	246.14	263.37
tblVehicleEF	LDA	52.35	49.48

tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	8.6630e-003	7.0570e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.4650e-003	2.6050e-003
tblVehicleEF	LDA	5.3600e-004	4.9000e-004
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.9510e-003	1.6620e-003
tblVehicleEF	LDA	3.7940e-003	0.04
tblVehicleEF	LDA	0.45	0.51
tblVehicleEF	LDA	0.90	1.98
tblVehicleEF	LDA	220.50	236.51
tblVehicleEF	LDA	52.35	49.99
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003

tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.4050e-003	6.0400e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2070e-003	2.3400e-003
tblVehicleEF	LDA	5.3800e-004	4.9500e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7910e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	8.3780e-003	5.2640e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.09	1.16
tblVehicleEF	LDT1	2.45	2.17
tblVehicleEF	LDT1	285.86	290.48
tblVehicleEF	LDT1	66.26	60.86
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003

tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8710e-003	2.8740e-003
tblVehicleEF	LDT1	7.0500e-004	6.0200e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	9.4770e-003	5.9510e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.31	1.40
tblVehicleEF	LDT1	2.16	1.92
tblVehicleEF	LDT1	310.62	312.92
tblVehicleEF	LDT1	66.26	60.33
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.33	0.33

tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.14	0.28
tblVehicleEF	LDT1	3.1220e-003	3.0970e-003
tblVehicleEF	LDT1	7.0000e-004	5.9700e-004
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	8.0590e-003	5.0610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.02	1.08
tblVehicleEF	LDT1	2.50	2.22
tblVehicleEF	LDT1	278.41	283.64
tblVehicleEF	LDT1	66.26	60.97
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.7960e-003	2.8070e-003
tblVehicleEF	LDT1	7.0600e-004	6.0300e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	4.4370e-003	3.0680e-003
tblVehicleEF	LDT2	5.1650e-003	0.06
tblVehicleEF	LDT2	0.65	0.78
tblVehicleEF	LDT2	1.18	2.47
tblVehicleEF	LDT2	319.11	303.53
tblVehicleEF	LDT2	73.38	63.90
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40

tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1960e-003	3.0030e-003
tblVehicleEF	LDT2	7.5300e-004	6.3200e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	5.0280e-003	3.4890e-003
tblVehicleEF	LDT2	4.4840e-003	0.05
tblVehicleEF	LDT2	0.80	0.96
tblVehicleEF	LDT2	1.04	2.19
tblVehicleEF	LDT2	347.22	324.77
tblVehicleEF	LDT2	73.38	63.35
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	3.4790e-003	3.2130e-003

tblVehicleEF	LDT2	7.5100e-004	6.2700e-004
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.25
tblVehicleEF	LDT2	4.2650e-003	2.9430e-003
tblVehicleEF	LDT2	5.3220e-003	0.06
tblVehicleEF	LDT2	0.61	0.73
tblVehicleEF	LDT2	1.21	2.53
tblVehicleEF	LDT2	310.62	297.05
tblVehicleEF	LDT2	73.38	64.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
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tblVehicleEF	LDT2	7.5400e-004	6.3400e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
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tblVehicleEF	LHD1	7.7330e-003	3.9530e-003
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tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
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tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.76	1.18
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5250e-003
tblVehicleEF	LHD1	7.8700e-003	4.0100e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.74	0.54
tblVehicleEF	LHD1	1.92	0.83
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.08
tblVehicleEF	LHD1	28.79	9.95
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.65	1.11
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7750e-003	5.9720e-003
tblVehicleEF	LHD1	3.2400e-004	9.8000e-005
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5130e-003
tblVehicleEF	LHD1	7.7230e-003	3.9460e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17

tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.88
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.74	1.16
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.1640e-003	2.9170e-003
tblVehicleEF	LHD2	3.1560e-003	3.0330e-003
tblVehicleEF	LHD2	6.0040e-003	7.4140e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.98	0.50
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.10	1.31
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9240e-003
tblVehicleEF	LHD2	3.1850e-003	3.0520e-003
tblVehicleEF	LHD2	5.8080e-003	7.1660e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.94	0.48
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.66
tblVehicleEF	LHD2	22.65	6.85
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	1.23
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4300e-004	6.8000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9160e-003
tblVehicleEF	LHD2	3.1490e-003	3.0280e-003
tblVehicleEF	LHD2	6.0380e-003	7.4680e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.99	0.51

tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.09	1.29
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.06

tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.52	18.66
tblVehicleEF	MCY	9.72	8.60
tblVehicleEF	MCY	167.91	208.37
tblVehicleEF	MCY	44.95	59.78
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.0440e-003	2.0620e-003
tblVehicleEF	MCY	6.6800e-004	5.9200e-004
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.22	1.96

tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.21	19.32
tblVehicleEF	MCY	9.09	8.01
tblVehicleEF	MCY	167.91	209.35
tblVehicleEF	MCY	44.95	58.19
tblVehicleEF	MCY	0.97	0.97
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.10	2.11
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.0540e-003	2.0720e-003
tblVehicleEF	MCY	6.5200e-004	5.7600e-004
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	18.09	18.23
tblVehicleEF	MCY	9.70	8.56
tblVehicleEF	MCY	167.91	207.67
tblVehicleEF	MCY	44.95	59.73
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.6800e-004	5.9100e-004
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MDV	9.0280e-003	3.8660e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.88
tblVehicleEF	MDV	2.38	2.80

tblVehicleEF	MDV	444.64	380.99
tblVehicleEF	MDV	101.02	79.79
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.18	0.34
tblVehicleEF	MDV	4.4520e-003	3.7660e-003
tblVehicleEF	MDV	1.0520e-003	7.9000e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.37
tblVehicleEF	MDV	0.01	4.4030e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.31	1.08
tblVehicleEF	MDV	2.10	2.47
tblVehicleEF	MDV	482.68	403.42
tblVehicleEF	MDV	101.02	79.12

tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.15	0.29
tblVehicleEF	MDV	4.8360e-003	3.9880e-003
tblVehicleEF	MDV	1.0460e-003	7.8300e-004
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	8.6740e-003	3.7110e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.00	0.82
tblVehicleEF	MDV	2.43	2.87
tblVehicleEF	MDV	433.14	374.20
tblVehicleEF	MDV	101.02	79.93
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003

tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	4.3370e-003	3.6990e-003
tblVehicleEF	MDV	1.0530e-003	7.9100e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.95	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.38	4.04
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.75	0.32
tblVehicleEF	MH	4.61	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.28	3.81
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	9.8840e-003	8.7110e-003
tblVehicleEF	MH	6.5000e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.99	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.37	4.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MHD	0.02	3.2360e-003
tblVehicleEF	MHD	2.3370e-003	1.1890e-003
tblVehicleEF	MHD	0.04	8.2020e-003
tblVehicleEF	MHD	0.32	0.35
tblVehicleEF	MHD	0.19	0.16
tblVehicleEF	MHD	4.66	0.92
tblVehicleEF	MHD	149.14	67.57
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.28
tblVehicleEF	MHD	0.41	0.38

tblVehicleEF	MHD	0.47	0.90
tblVehicleEF	MHD	1.1800e-004	3.6800e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	1.1300e-004	3.5200e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.4340e-003	6.4100e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2000e-004	8.2000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	0.02	3.0810e-003
tblVehicleEF	MHD	2.3650e-003	1.2070e-003
tblVehicleEF	MHD	0.04	7.9360e-003

tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.20	0.16
tblVehicleEF	MHD	4.45	0.88
tblVehicleEF	MHD	157.97	67.48
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.21
tblVehicleEF	MHD	0.42	0.38
tblVehicleEF	MHD	0.44	0.85
tblVehicleEF	MHD	1.0000e-004	3.1300e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	9.5000e-005	3.0000e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.28	0.04
tblVehicleEF	MHD	1.5170e-003	6.4000e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.1600e-004	8.1000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02

tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.30	0.05
tblVehicleEF	MHD	0.02	3.4620e-003
tblVehicleEF	MHD	2.3160e-003	1.1760e-003
tblVehicleEF	MHD	0.04	8.2760e-003
tblVehicleEF	MHD	0.44	0.42
tblVehicleEF	MHD	0.19	0.15
tblVehicleEF	MHD	4.73	0.93
tblVehicleEF	MHD	136.93	67.69
tblVehicleEF	MHD	1,057.85	926.25
tblVehicleEF	MHD	53.85	8.31
tblVehicleEF	MHD	0.39	0.40
tblVehicleEF	MHD	0.46	0.89
tblVehicleEF	MHD	1.4400e-004	4.4400e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	1.3800e-004	4.2500e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.10

tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.3190e-003	6.4200e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2100e-004	8.2000e-005
tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.32	0.05
tblVehicleEF	OBUS	0.01	8.5080e-003
tblVehicleEF	OBUS	5.0590e-003	4.2530e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.25	2.37
tblVehicleEF	OBUS	68.87	68.87
tblVehicleEF	OBUS	1,088.96	1,309.02
tblVehicleEF	OBUS	69.21	19.83
tblVehicleEF	OBUS	0.13	0.25
tblVehicleEF	OBUS	0.36	0.82
tblVehicleEF	OBUS	1.2000e-005	8.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	8.0000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003

tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	6.6900e-004	6.5700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8400e-004	1.9600e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	0.01	8.5790e-003
tblVehicleEF	OBUS	5.1570e-003	4.3450e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.35	0.53
tblVehicleEF	OBUS	4.91	2.22
tblVehicleEF	OBUS	71.95	68.13
tblVehicleEF	OBUS	1,088.96	1,309.04
tblVehicleEF	OBUS	69.21	19.57

tblVehicleEF	OBUS	0.14	0.24
tblVehicleEF	OBUS	0.33	0.76
tblVehicleEF	OBUS	1.0000e-005	7.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	7.1000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9900e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7800e-004	1.9400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	0.01	8.4380e-003
tblVehicleEF	OBUS	5.0420e-003	4.2250e-003

tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.51
tblVehicleEF	OBUS	0.35	0.52
tblVehicleEF	OBUS	5.30	2.40
tblVehicleEF	OBUS	64.61	69.89
tblVehicleEF	OBUS	1,088.96	1,309.01
tblVehicleEF	OBUS	69.21	19.87
tblVehicleEF	OBUS	0.13	0.27
tblVehicleEF	OBUS	0.36	0.81
tblVehicleEF	OBUS	1.5000e-005	9.6000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.4000e-005	9.2000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.33	0.12
tblVehicleEF	OBUS	6.2900e-004	6.6700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8500e-004	1.9700e-004
tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.28
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	9.0390e-003	5.9240e-003
tblVehicleEF	SBUS	0.06	7.2340e-003
tblVehicleEF	SBUS	7.86	3.17
tblVehicleEF	SBUS	0.55	0.48
tblVehicleEF	SBUS	6.35	0.94
tblVehicleEF	SBUS	1,119.53	360.62
tblVehicleEF	SBUS	1,088.21	1,081.74
tblVehicleEF	SBUS	55.65	6.13
tblVehicleEF	SBUS	8.21	3.27
tblVehicleEF	SBUS	3.64	4.25
tblVehicleEF	SBUS	7.3700e-003	3.1780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	7.0510e-003	3.0400e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37

tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.35	0.04
tblVehicleEF	SBUS	0.01	3.4450e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6700e-004	6.1000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	9.1700e-003	5.9920e-003
tblVehicleEF	SBUS	0.05	6.0650e-003
tblVehicleEF	SBUS	7.76	3.13
tblVehicleEF	SBUS	0.56	0.49
tblVehicleEF	SBUS	4.60	0.68
tblVehicleEF	SBUS	1,169.74	369.09
tblVehicleEF	SBUS	1,088.21	1,081.75
tblVehicleEF	SBUS	55.65	5.70
tblVehicleEF	SBUS	8.48	3.34
tblVehicleEF	SBUS	3.42	4.00
tblVehicleEF	SBUS	6.2130e-003	2.6870e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	5.9440e-003	2.5700e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.30	0.03
tblVehicleEF	SBUS	0.01	3.5250e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.3700e-004	5.6000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	4.7380e-003	1.4230e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.32	0.04
tblVehicleEF	SBUS	0.81	0.08
tblVehicleEF	SBUS	8.9970e-003	5.9160e-003
tblVehicleEF	SBUS	0.06	7.4960e-003
tblVehicleEF	SBUS	8.01	3.22

tblVehicleEF	SBUS	0.55	0.48
tblVehicleEF	SBUS	6.70	0.98
tblVehicleEF	SBUS	1,050.20	348.92
tblVehicleEF	SBUS	1,088.21	1,081.74
tblVehicleEF	SBUS	55.65	6.21
tblVehicleEF	SBUS	7.85	3.17
tblVehicleEF	SBUS	3.60	4.22
tblVehicleEF	SBUS	8.9680e-003	3.8560e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	8.5800e-003	3.6900e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37
tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.01	3.3350e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.7300e-004	6.1000e-005
tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
tblVehicleEF	SBUS	0.04	0.01

tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.4660e-003	7.4300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.40	0.05
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.09	26.11
tblVehicleEF	UBUS	13.03	1.46
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	17.32
tblVehicleEF	UBUS	3.44	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003

tblVehicleEF	UBUS	1.7600e-003	1.7100e-004
tblVehicleEF	UBUS	8.5980e-003	1.5820e-003
tblVehicleEF	UBUS	0.10	9.8460e-003
tblVehicleEF	UBUS	4.3570e-003	6.9400e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.15	0.08
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.15	26.11
tblVehicleEF	UBUS	11.17	1.24
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	16.95
tblVehicleEF	UBUS	3.21	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	0.02	2.8210e-003
tblVehicleEF	UBUS	0.12	0.01
tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
tblVehicleEF	UBUS	0.38	0.05
tblVehicleEF	UBUS	0.02	0.05

tblVehicleEF	UBUS	0.96	0.07
tblVehicleEF	UBUS	9.3630e-003	4.6650e-003
tblVehicleEF	UBUS	1.7280e-003	1.6800e-004
tblVehicleEF	UBUS	0.02	2.8210e-003
tblVehicleEF	UBUS	0.12	0.01
tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
tblVehicleEF	UBUS	1.71	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.05	0.07
tblVehicleEF	UBUS	1.29	3.36
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.08	26.11
tblVehicleEF	UBUS	13.21	1.45
tblVehicleEF	UBUS	1,778.37	1,592.06
tblVehicleEF	UBUS	152.35	17.30
tblVehicleEF	UBUS	3.42	0.31
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004

tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
tblVehicleEF	UBUS	1.7630e-003	1.7100e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.16	0.08
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PR_TP	82.00	90.00
tblVehicleTrips	ST_TR	1.64	2.82
tblVehicleTrips	SU_TR	0.76	2.82
tblVehicleTrips	WD_TR	11.42	2.82
tblWater	IndoorWaterUseRate	1,825,876,566.51	0.00
tblWater	OutdoorWaterUseRate	1,119,085,637.54	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	0.0000	0.0000	0.0000	0.0000	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	37.1341	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
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	10.3746	8.5577	140.0377	0.4776	58.8517	0.2472	59.0989	15.6205	0.2277	15.8482	0.0000	43,796.4448	43,796.4448	0.8977	0.0000	43,818.8876
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	**47.5086**	**8.5589**	**140.1686**	**0.4776**	**58.8517**	**0.2476**	**59.0994**	**15.6205**	**0.2281**	**15.8487**	**0.0000**	**43,796.6998**	**43,796.6998**	**0.8984**	**0.0000**	**43,819.1592**

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	37.1341	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
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	10.3746	8.5577	140.0377	0.4776	58.8517	0.2472	59.0989	15.6205	0.2277	15.8482	0.0000	43,796.4448	43,796.4448	0.8977	0.0000	43,818.8876
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	**47.5086**	**8.5589**	**140.1686**	**0.4776**	**58.8517**	**0.2476**	**59.0994**	**15.6205**	**0.2281**	**15.8487**	**0.0000**	**43,796.6998**	**43,796.6998**	**0.8984**	**0.0000**	**43,819.1592**

	ROG	NOx	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	7/1/2020	6/30/2020	5	0	

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
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

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

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	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**

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 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	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 Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	10.3746	8.5577	140.0377	0.4776	58.8517	0.2472	59.0989	15.6205	0.2277	15.8482	0.0000	43,796.4448	43,796.4448	0.8977	0.0000	43,818.8876
Unmitigated	10.3746	8.5577	140.0377	0.4776	58.8517	0.2472	59.0989	15.6205	0.2277	15.8482	0.0000	43,796.4448	43,796.4448	0.8977	0.0000	43,818.8876

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	28,953.82	28,953.82	28953.82	157,560,886	157,560,886
Total	28,953.82	28,953.82	28,953.82	157,560,886	157,560,886

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
Office Park	16.60	8.40	6.90	100.00	0.00	0.00	90	0	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.623100	0.040400	0.212100	0.124400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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					
Office 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
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					
Office 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
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			
Office Park	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Office Park	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	37.1341	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
Unmitigated	37.1341	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	37.1220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
Total	**37.1341**	**1.1900e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**0.2550**	**0.2550**	**6.7000e-004**	**0.0000**	**0.2716**

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	37.1220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
Total	**37.1341**	**1.1900e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**0.2550**	**0.2550**	**6.7000e-004**	**0.0000**	**0.2716**

7.0 Water Detail

7.1 Mitigation Measures Water

	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			
Office Park	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			
Office Park	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			
Office Park	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	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

Meridian South Campus - 2003 EIR Phase III (Operations - Trucks)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	10,273.14	1000sqft	235.84	10,273,140.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	482.54	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e Intensity Factor has been adjusted to reflect the 2024 RPS target.

Land Use -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Meridian South Campus Traffic Impact Analysis by Urban Crossroads, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating - Mobile Run Only.

Landscape Equipment - Mobile Run Only.

Energy Use - Mobile Run Only.

Water And Wastewater - Mobile Run Only.

Solid Waste - Mobile Run Only.

Fleet Mix - Truck Fleet Mix based on SCAQMD Warehouse Truck Trip Study Data Results and Usage (2014) recommended truck mix for industrial uses without cold storage

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Nonresidential_Exterior	5136550	0
tblAreaCoating	Area_Nonresidential_Interior	15409650	0
tblConstructionPhase	NumDays	300.00	0.00
tblEnergyUse	LightingElect	4.24	0.00
tblEnergyUse	NT24E	2.60	0.00
tblEnergyUse	T24E	3.07	0.00
tblEnergyUse	T24NG	2.92	0.00
tblFleetMix	HHD	0.07	0.63
tblFleetMix	LDA	0.55	0.00

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.01	0.17
tblFleetMix	LHD2	4.6600e-003	0.00
tblFleetMix	MCY	4.4760e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.4000e-004	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	OBUS	1.4130e-003	0.00
tblFleetMix	SBUS	9.0500e-004	0.00
tblFleetMix	UBUS	1.1340e-003	0.00
tblLandUse	LandUseSquareFeet	10,273,100.00	10,273,140.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	482.54
tblSolidWaste	SolidWasteGenerationRate	9,553.98	0.00
tblVehicleEF	HHD	0.94	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.04	8.38
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.44	2.4500e-003
tblVehicleEF	HHD	6,063.49	1,353.52
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.19	6.79

tblVehicleEF	HHD	0.95	1.93
tblVehicleEF	HHD	4.7470e-003	2.6990e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	4.5410e-003	2.5820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.54	0.57
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.5100e-004	2.0200e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	7.2000e-005	1.0000e-006
tblVehicleEF	HHD	2.2620e-003	4.5000e-005
tblVehicleEF	HHD	0.62	0.65
tblVehicleEF	HHD	4.3000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5100e-004	2.0200e-004

tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.89	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	1.48	8.27
tblVehicleEF	HHD	0.42	0.22
tblVehicleEF	HHD	1.37	2.3220e-003
tblVehicleEF	HHD	6,423.73	1,336.26
tblVehicleEF	HHD	1,397.92	1,236.09
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	17.75	6.46
tblVehicleEF	HHD	0.90	1.82
tblVehicleEF	HHD	4.0020e-003	2.3850e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03
tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	3.8290e-003	2.2820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8930e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.51	0.60
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.05	0.02

tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.03	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.0000e-005	0.00
tblVehicleEF	HHD	1.3700e-004	2.0000e-006
tblVehicleEF	HHD	2.5590e-003	4.9000e-005
tblVehicleEF	HHD	0.59	0.68
tblVehicleEF	HHD	8.0000e-005	2.0000e-006
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	1.5300e-004	2.0400e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.02	0.02
tblVehicleEF	HHD	0.03	8.7800e-004
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	2.81	8.50
tblVehicleEF	HHD	0.42	0.16
tblVehicleEF	HHD	1.45	2.4460e-003
tblVehicleEF	HHD	5,566.02	1,373.00
tblVehicleEF	HHD	1,397.92	1,223.81
tblVehicleEF	HHD	4.71	0.02
tblVehicleEF	HHD	16.43	7.22
tblVehicleEF	HHD	0.95	1.91
tblVehicleEF	HHD	5.7750e-003	3.0950e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	5.1380e-003	0.03

tblVehicleEF	HHD	4.0000e-005	0.00
tblVehicleEF	HHD	5.5250e-003	2.9620e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8590e-003	8.8580e-003
tblVehicleEF	HHD	4.9160e-003	0.03
tblVehicleEF	HHD	3.7000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005
tblVehicleEF	HHD	0.58	0.52
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	5.3000e-005	1.0000e-006
tblVehicleEF	HHD	2.3400e-003	4.9000e-005
tblVehicleEF	HHD	0.67	0.59
tblVehicleEF	HHD	3.5000e-005	1.0000e-006
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	1.6200e-004	2.1500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.0560e-003	1.7230e-003
tblVehicleEF	LDA	3.6940e-003	0.04
tblVehicleEF	LDA	0.48	0.55
tblVehicleEF	LDA	0.88	1.94

tblVehicleEF	LDA	226.07	242.29
tblVehicleEF	LDA	52.35	49.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.6660e-003	6.2520e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.2630e-003	2.3970e-003
tblVehicleEF	LDA	5.3800e-004	4.9400e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.1010e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.19
tblVehicleEF	LDA	3.4590e-003	1.9630e-003
tblVehicleEF	LDA	3.2010e-003	0.04
tblVehicleEF	LDA	0.59	0.67
tblVehicleEF	LDA	0.77	1.71
tblVehicleEF	LDA	246.14	263.37
tblVehicleEF	LDA	52.35	49.48

tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003
tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	8.6630e-003	7.0570e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.04	0.15
tblVehicleEF	LDA	2.4650e-003	2.6050e-003
tblVehicleEF	LDA	5.3600e-004	4.9000e-004
tblVehicleEF	LDA	0.08	0.11
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	2.9510e-003	1.6620e-003
tblVehicleEF	LDA	3.7940e-003	0.04
tblVehicleEF	LDA	0.45	0.51
tblVehicleEF	LDA	0.90	1.98
tblVehicleEF	LDA	220.50	236.51
tblVehicleEF	LDA	52.35	49.99
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	1.5420e-003	1.2580e-003

tblVehicleEF	LDA	2.2240e-003	1.6900e-003
tblVehicleEF	LDA	1.4200e-003	1.1590e-003
tblVehicleEF	LDA	2.0440e-003	1.5540e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	7.4050e-003	6.0400e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.2070e-003	2.3400e-003
tblVehicleEF	LDA	5.3800e-004	4.9500e-004
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	8.7910e-003
tblVehicleEF	LDA	0.04	0.22
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDT1	8.3780e-003	5.2640e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.09	1.16
tblVehicleEF	LDT1	2.45	2.17
tblVehicleEF	LDT1	285.86	290.48
tblVehicleEF	LDT1	66.26	60.86
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003

tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8710e-003	2.8740e-003
tblVehicleEF	LDT1	7.0500e-004	6.0200e-004
tblVehicleEF	LDT1	0.17	0.17
tblVehicleEF	LDT1	0.28	0.21
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.17	0.68
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	9.4770e-003	5.9510e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.31	1.40
tblVehicleEF	LDT1	2.16	1.92
tblVehicleEF	LDT1	310.62	312.92
tblVehicleEF	LDT1	66.26	60.33
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.33	0.33

tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.14	0.28
tblVehicleEF	LDT1	3.1220e-003	3.0970e-003
tblVehicleEF	LDT1	7.0000e-004	5.9700e-004
tblVehicleEF	LDT1	0.33	0.33
tblVehicleEF	LDT1	0.34	0.26
tblVehicleEF	LDT1	0.22	0.23
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.17	0.69
tblVehicleEF	LDT1	0.16	0.30
tblVehicleEF	LDT1	8.0590e-003	5.0610e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.02	1.08
tblVehicleEF	LDT1	2.50	2.22
tblVehicleEF	LDT1	278.41	283.64
tblVehicleEF	LDT1	66.26	60.97
tblVehicleEF	LDT1	0.10	0.09
tblVehicleEF	LDT1	2.2060e-003	1.7970e-003
tblVehicleEF	LDT1	3.2100e-003	2.3630e-003
tblVehicleEF	LDT1	2.0300e-003	1.6540e-003
tblVehicleEF	LDT1	2.9520e-003	2.1720e-003
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.7960e-003	2.8070e-003
tblVehicleEF	LDT1	7.0600e-004	6.0300e-004
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.31	0.23
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.79
tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	4.4370e-003	3.0680e-003
tblVehicleEF	LDT2	5.1650e-003	0.06
tblVehicleEF	LDT2	0.65	0.78
tblVehicleEF	LDT2	1.18	2.47
tblVehicleEF	LDT2	319.11	303.53
tblVehicleEF	LDT2	73.38	63.90
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40

tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1960e-003	3.0030e-003
tblVehicleEF	LDT2	7.5300e-004	6.3200e-004
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	5.0280e-003	3.4890e-003
tblVehicleEF	LDT2	4.4840e-003	0.05
tblVehicleEF	LDT2	0.80	0.96
tblVehicleEF	LDT2	1.04	2.19
tblVehicleEF	LDT2	347.22	324.77
tblVehicleEF	LDT2	73.38	63.35
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.06	0.22
tblVehicleEF	LDT2	3.4790e-003	3.2130e-003

tblVehicleEF	LDT2	7.5100e-004	6.2700e-004
tblVehicleEF	LDT2	0.12	0.19
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.09	0.15
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.07	0.25
tblVehicleEF	LDT2	4.2650e-003	2.9430e-003
tblVehicleEF	LDT2	5.3220e-003	0.06
tblVehicleEF	LDT2	0.61	0.73
tblVehicleEF	LDT2	1.21	2.53
tblVehicleEF	LDT2	310.62	297.05
tblVehicleEF	LDT2	73.38	64.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	1.6270e-003	1.3240e-003
tblVehicleEF	LDT2	2.3870e-003	1.7420e-003
tblVehicleEF	LDT2	1.4960e-003	1.2190e-003
tblVehicleEF	LDT2	2.1950e-003	1.6020e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.1100e-003	2.9390e-003
tblVehicleEF	LDT2	7.5400e-004	6.3400e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.46
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LHD1	4.8080e-003	4.5140e-003
tblVehicleEF	LHD1	7.7330e-003	3.9530e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.87
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.76	1.18
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.5610e-003	2.7040e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8020e-003	1.3670e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5250e-003
tblVehicleEF	LHD1	7.8700e-003	4.0100e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.74	0.54
tblVehicleEF	LHD1	1.92	0.83
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.08
tblVehicleEF	LHD1	28.79	9.95
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.65	1.11
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7750e-003	5.9720e-003
tblVehicleEF	LHD1	3.2400e-004	9.8000e-005
tblVehicleEF	LHD1	6.6320e-003	5.0340e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.3850e-003	2.5820e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.44
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	4.8080e-003	4.5130e-003
tblVehicleEF	LHD1	7.7230e-003	3.9460e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17

tblVehicleEF	LHD1	0.73	0.53
tblVehicleEF	LHD1	2.02	0.88
tblVehicleEF	LHD1	9.23	9.22
tblVehicleEF	LHD1	589.78	614.07
tblVehicleEF	LHD1	28.79	10.02
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.74	1.16
tblVehicleEF	LHD1	9.6000e-004	9.9600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	9.2860e-003
tblVehicleEF	LHD1	7.5400e-004	2.0700e-004
tblVehicleEF	LHD1	9.1800e-004	9.5300e-004
tblVehicleEF	LHD1	2.5680e-003	2.5080e-003
tblVehicleEF	LHD1	0.01	8.8650e-003
tblVehicleEF	LHD1	6.9300e-004	1.9000e-004
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.21	0.06
tblVehicleEF	LHD1	9.2000e-005	8.9000e-005
tblVehicleEF	LHD1	5.7740e-003	5.9720e-003
tblVehicleEF	LHD1	3.2600e-004	9.9000e-005
tblVehicleEF	LHD1	3.1160e-003	2.3640e-003
tblVehicleEF	LHD1	0.11	0.08

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.6420e-003	1.2420e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.47
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD2	3.1640e-003	2.9170e-003
tblVehicleEF	LHD2	3.1560e-003	3.0330e-003
tblVehicleEF	LHD2	6.0040e-003	7.4140e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.98	0.50
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.10	1.31
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	1.2270e-003	1.4550e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6800e-004	7.6300e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9240e-003
tblVehicleEF	LHD2	3.1850e-003	3.0520e-003
tblVehicleEF	LHD2	5.8080e-003	7.1660e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.94	0.48
tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.66
tblVehicleEF	LHD2	22.65	6.85
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	1.23
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4300e-004	6.8000e-005
tblVehicleEF	LHD2	2.3110e-003	2.7390e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2400e-003	1.4310e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.21
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.1640e-003	2.9160e-003
tblVehicleEF	LHD2	3.1490e-003	3.0280e-003
tblVehicleEF	LHD2	6.0380e-003	7.4680e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.36	0.41
tblVehicleEF	LHD2	0.99	0.51

tblVehicleEF	LHD2	14.26	14.53
tblVehicleEF	LHD2	587.76	613.65
tblVehicleEF	LHD2	22.65	6.89
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.09	1.29
tblVehicleEF	LHD2	1.2560e-003	1.4670e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4800e-004	1.0300e-004
tblVehicleEF	LHD2	1.2020e-003	1.4030e-003
tblVehicleEF	LHD2	2.7040e-003	2.7160e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.2000e-004	9.4000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	5.7120e-003	5.9120e-003
tblVehicleEF	LHD2	2.4400e-004	6.8000e-005
tblVehicleEF	LHD2	9.5000e-004	1.1140e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.6800e-004	6.3600e-004
tblVehicleEF	LHD2	0.05	0.06

tblVehicleEF	LHD2	0.07	0.22
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.52	18.66
tblVehicleEF	MCY	9.72	8.60
tblVehicleEF	MCY	167.91	208.37
tblVehicleEF	MCY	44.95	59.78
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.12	2.13
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.0440e-003	2.0620e-003
tblVehicleEF	MCY	6.6800e-004	5.9200e-004
tblVehicleEF	MCY	1.69	1.68
tblVehicleEF	MCY	0.82	0.83
tblVehicleEF	MCY	0.91	0.90
tblVehicleEF	MCY	2.63	2.64
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	2.22	1.96

tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	19.21	19.32
tblVehicleEF	MCY	9.09	8.01
tblVehicleEF	MCY	167.91	209.35
tblVehicleEF	MCY	44.95	58.19
tblVehicleEF	MCY	0.97	0.97
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.10	2.11
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.83	1.61
tblVehicleEF	MCY	2.0540e-003	2.0720e-003
tblVehicleEF	MCY	6.5200e-004	5.7600e-004
tblVehicleEF	MCY	3.35	3.31
tblVehicleEF	MCY	1.22	1.24
tblVehicleEF	MCY	2.08	2.05
tblVehicleEF	MCY	2.61	2.62
tblVehicleEF	MCY	0.54	1.71
tblVehicleEF	MCY	1.99	1.75
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.15	0.24

tblVehicleEF	MCY	18.09	18.23
tblVehicleEF	MCY	9.70	8.56
tblVehicleEF	MCY	167.91	207.67
tblVehicleEF	MCY	44.95	59.73
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	1.9220e-003	1.8970e-003
tblVehicleEF	MCY	3.1990e-003	2.7140e-003
tblVehicleEF	MCY	1.7950e-003	1.7720e-003
tblVehicleEF	MCY	3.0050e-003	2.5480e-003
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.11	2.12
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.05	1.81
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.6800e-004	5.9100e-004
tblVehicleEF	MCY	1.58	1.59
tblVehicleEF	MCY	1.01	1.02
tblVehicleEF	MCY	0.72	0.73
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.61	1.95
tblVehicleEF	MCY	2.23	1.97
tblVehicleEF	MDV	9.0280e-003	3.8660e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.07	0.88
tblVehicleEF	MDV	2.38	2.80

tblVehicleEF	MDV	444.64	380.99
tblVehicleEF	MDV	101.02	79.79
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.18	0.34
tblVehicleEF	MDV	4.4520e-003	3.7660e-003
tblVehicleEF	MDV	1.0520e-003	7.9000e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.37
tblVehicleEF	MDV	0.01	4.4030e-003
tblVehicleEF	MDV	0.01	0.06
tblVehicleEF	MDV	1.31	1.08
tblVehicleEF	MDV	2.10	2.47
tblVehicleEF	MDV	482.68	403.42
tblVehicleEF	MDV	101.02	79.12

tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	1.6570e-003	1.3760e-003
tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.15	0.29
tblVehicleEF	MDV	4.8360e-003	3.9880e-003
tblVehicleEF	MDV	1.0460e-003	7.8300e-004
tblVehicleEF	MDV	0.20	0.23
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.16	0.19
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	8.6740e-003	3.7110e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.00	0.82
tblVehicleEF	MDV	2.43	2.87
tblVehicleEF	MDV	433.14	374.20
tblVehicleEF	MDV	101.02	79.93
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	1.6570e-003	1.3760e-003

tblVehicleEF	MDV	2.3540e-003	1.7750e-003
tblVehicleEF	MDV	1.5260e-003	1.2690e-003
tblVehicleEF	MDV	2.1650e-003	1.6320e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	4.3370e-003	3.6990e-003
tblVehicleEF	MDV	1.0530e-003	7.9100e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.53
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.95	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.38	4.04
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.29	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.30	0.00
tblVehicleEF	MH	0.07	0.00
tblVehicleEF	MH	0.46	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.75	0.32
tblVehicleEF	MH	4.61	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.28	3.81
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.28	0.00
tblVehicleEF	MH	9.8840e-003	8.7110e-003
tblVehicleEF	MH	6.5000e-004	0.00
tblVehicleEF	MH	2.37	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.89	0.00
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	0.02	3.1780e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	1.70	0.32
tblVehicleEF	MH	4.99	0.00
tblVehicleEF	MH	997.37	921.43
tblVehicleEF	MH	56.92	0.00
tblVehicleEF	MH	1.37	4.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.3700e-004	0.00

tblVehicleEF	MH	3.2450e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.12
tblVehicleEF	MH	8.6100e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	0.45	0.00
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.30	0.00
tblVehicleEF	MH	9.8830e-003	8.7110e-003
tblVehicleEF	MH	6.5600e-004	0.00
tblVehicleEF	MH	1.29	0.00
tblVehicleEF	MH	0.09	0.00
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tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.32	0.00
tblVehicleEF	MHD	0.02	3.2360e-003
tblVehicleEF	MHD	2.3370e-003	1.1890e-003
tblVehicleEF	MHD	0.04	8.2020e-003
tblVehicleEF	MHD	0.32	0.35
tblVehicleEF	MHD	0.19	0.16
tblVehicleEF	MHD	4.66	0.92
tblVehicleEF	MHD	149.14	67.57
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.28
tblVehicleEF	MHD	0.41	0.38

tblVehicleEF	MHD	0.47	0.90
tblVehicleEF	MHD	1.1800e-004	3.6800e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	1.1300e-004	3.5200e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.4340e-003	6.4100e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2000e-004	8.2000e-005
tblVehicleEF	MHD	1.4090e-003	6.1300e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	7.2900e-004	3.1800e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	0.02	3.0810e-003
tblVehicleEF	MHD	2.3650e-003	1.2070e-003
tblVehicleEF	MHD	0.04	7.9360e-003

tblVehicleEF	MHD	0.23	0.31
tblVehicleEF	MHD	0.20	0.16
tblVehicleEF	MHD	4.45	0.88
tblVehicleEF	MHD	157.97	67.48
tblVehicleEF	MHD	1,057.85	926.26
tblVehicleEF	MHD	53.85	8.21
tblVehicleEF	MHD	0.42	0.38
tblVehicleEF	MHD	0.44	0.85
tblVehicleEF	MHD	1.0000e-004	3.1300e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
tblVehicleEF	MHD	9.5000e-005	3.0000e-004
tblVehicleEF	MHD	2.5680e-003	8.9020e-003
tblVehicleEF	MHD	6.5200e-004	8.6000e-005
tblVehicleEF	MHD	2.7150e-003	1.1690e-003
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.28	0.04
tblVehicleEF	MHD	1.5170e-003	6.4000e-004
tblVehicleEF	MHD	0.01	8.8240e-003
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tblVehicleEF	MHD	2.7150e-003	1.1690e-003
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tblVehicleEF	MHD	0.03	0.02

tblVehicleEF	MHD	1.3900e-003	6.1000e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.30	0.05
tblVehicleEF	MHD	0.02	3.4620e-003
tblVehicleEF	MHD	2.3160e-003	1.1760e-003
tblVehicleEF	MHD	0.04	8.2760e-003
tblVehicleEF	MHD	0.44	0.42
tblVehicleEF	MHD	0.19	0.15
tblVehicleEF	MHD	4.73	0.93
tblVehicleEF	MHD	136.93	67.69
tblVehicleEF	MHD	1,057.85	926.25
tblVehicleEF	MHD	53.85	8.31
tblVehicleEF	MHD	0.39	0.40
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tblVehicleEF	MHD	1.4400e-004	4.4400e-004
tblVehicleEF	MHD	2.6870e-003	9.3080e-003
tblVehicleEF	MHD	7.0900e-004	9.4000e-005
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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.10

tblVehicleEF	MHD	0.29	0.04
tblVehicleEF	MHD	1.3190e-003	6.4200e-004
tblVehicleEF	MHD	0.01	8.8240e-003
tblVehicleEF	MHD	6.2100e-004	8.2000e-005
tblVehicleEF	MHD	1.0090e-003	4.5000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	5.6500e-004	2.5200e-004
tblVehicleEF	MHD	0.03	0.01
tblVehicleEF	MHD	0.02	0.10
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tblVehicleEF	OBUS	5.0590e-003	4.2530e-003
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tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.35	0.52
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tblVehicleEF	OBUS	68.87	68.87
tblVehicleEF	OBUS	1,088.96	1,309.02
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tblVehicleEF	OBUS	0.36	0.82
tblVehicleEF	OBUS	1.2000e-005	8.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	8.0000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003

tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	6.6900e-004	6.5700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8400e-004	1.9600e-004
tblVehicleEF	OBUS	2.0530e-003	2.6050e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.9600e-004	1.1300e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	0.01	8.5790e-003
tblVehicleEF	OBUS	5.1570e-003	4.3450e-003
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tblVehicleEF	OBUS	0.35	0.53
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tblVehicleEF	OBUS	71.95	68.13
tblVehicleEF	OBUS	1,088.96	1,309.04
tblVehicleEF	OBUS	69.21	19.57

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tblVehicleEF	OBUS	0.33	0.76
tblVehicleEF	OBUS	1.0000e-005	7.4000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	7.1000e-005
tblVehicleEF	OBUS	1.9330e-003	7.8150e-003
tblVehicleEF	OBUS	8.2000e-004	1.8400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	6.9900e-004	6.5000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7800e-004	1.9400e-004
tblVehicleEF	OBUS	3.8120e-003	4.7440e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.7010e-003	2.1360e-003
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tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	0.01	8.4380e-003
tblVehicleEF	OBUS	5.0420e-003	4.2250e-003

tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.51
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tblVehicleEF	OBUS	1,088.96	1,309.01
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tblVehicleEF	OBUS	1.5000e-005	9.6000e-005
tblVehicleEF	OBUS	2.0390e-003	8.1830e-003
tblVehicleEF	OBUS	8.9200e-004	2.0000e-004
tblVehicleEF	OBUS	1.4000e-005	9.2000e-005
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tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.04
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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.28
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tblVehicleEF	OBUS	1.7480e-003	2.3240e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	8.2000e-004	1.0670e-003
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tblVehicleEF	SBUS	7.3700e-003	3.1780e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
tblVehicleEF	SBUS	7.0510e-003	3.0400e-003
tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	5.3320e-003	1.5970e-003
tblVehicleEF	SBUS	0.04	0.01
tblVehicleEF	SBUS	0.93	0.37

tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
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tblVehicleEF	SBUS	1.34	0.53
tblVehicleEF	SBUS	2.5740e-003	7.7400e-004
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tblVehicleEF	SBUS	0.02	0.07
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.81	0.08
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tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	5.2800e-004	4.6000e-005
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tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	4.8600e-004	4.3000e-005
tblVehicleEF	SBUS	9.5960e-003	2.8720e-003
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tblVehicleEF	SBUS	1.34	0.53
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tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
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tblVehicleEF	SBUS	2.6840e-003	2.6490e-003
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tblVehicleEF	SBUS	4.5600e-003	1.3650e-003
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tblVehicleEF	UBUS	0.02	0.05
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tblVehicleEF	UBUS	1.7600e-003	1.7100e-004
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tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	7.15	26.11
tblVehicleEF	UBUS	11.17	1.24
tblVehicleEF	UBUS	1,778.37	1,592.06
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tblVehicleEF	UBUS	0.01	0.02
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tblVehicleEF	UBUS	8.6330e-003	1.4240e-003
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tblVehicleEF	UBUS	1.05	0.07
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tblVehicleEF	UBUS	7.08	26.11
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tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.5920e-003
tblVehicleEF	UBUS	1.5030e-003	1.9600e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.04	2.4630e-003
tblVehicleEF	UBUS	1.3820e-003	1.8000e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004

tblVehicleEF	UBUS	0.37	0.05
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.3620e-003	4.6650e-003
tblVehicleEF	UBUS	1.7630e-003	1.7100e-004
tblVehicleEF	UBUS	7.6950e-003	1.6700e-003
tblVehicleEF	UBUS	0.11	0.01
tblVehicleEF	UBUS	3.9440e-003	7.3300e-004
tblVehicleEF	UBUS	1.70	3.43
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	1.16	0.08
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	60.00
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	PB_TP	3.00	10.00
tblVehicleTrips	PR_TP	82.00	90.00
tblVehicleTrips	ST_TR	1.64	0.23
tblVehicleTrips	SU_TR	0.76	0.23
tblVehicleTrips	WD_TR	11.42	0.23
tblWater	IndoorWaterUseRate	1,825,876,566.51	0.00
tblWater	OutdoorWaterUseRate	1,119,085,637.54	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	0.0000	0.0000	0.0000	0.0000	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	37.1341	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
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	1.5775	97.7131	18.0802	0.5114	19.9776	1.0199	20.9976	5.6252	0.9756	6.6008	0.0000	49,250.0677	49,250.0677	0.5825	0.0000	49,264.6300
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	**38.7116**	**97.7143**	**18.2111**	**0.5114**	**19.9776**	**1.0204**	**20.9980**	**5.6252**	**0.9761**	**6.6012**	**0.0000**	**49,250.3227**	**49,250.3227**	**0.5832**	**0.0000**	**49,264.9016**

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	37.1341	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
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	1.5775	97.7131	18.0802	0.5114	19.9776	1.0199	20.9976	5.6252	0.9756	6.6008	0.0000	49,250.0677	49,250.0677	0.5825	0.0000	49,264.6300
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	**38.7116**	**97.7143**	**18.2111**	**0.5114**	**19.9776**	**1.0204**	**20.9980**	**5.6252**	**0.9761**	**6.6012**	**0.0000**	**49,250.3227**	**49,250.3227**	**0.5832**	**0.0000**	**49,264.9016**

	ROG	NOx	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	7/1/2020	6/30/2020	5	0	

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
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

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

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	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**

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 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	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 Off-Site

	ROG	NOx	CO	SO2	Fugitive 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	1.5775	97.7131	18.0802	0.5114	19.9776	1.0199	20.9976	5.6252	0.9756	6.6008	0.0000	49,250.0677	49,250.0677	0.5825	0.0000	49,264.6300
Unmitigated	1.5775	97.7131	18.0802	0.5114	19.9776	1.0199	20.9976	5.6252	0.9756	6.6008	0.0000	49,250.0677	49,250.0677	0.5825	0.0000	49,264.6300

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	2,313.51	2,313.51	2313.51	45,482,796	45,482,796
Total	2,313.51	2,313.51	2,313.51	45,482,796	45,482,796

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
Office Park	60.00	8.40	6.90	100.00	0.00	0.00	90	0	10

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.000000	0.000000	0.000000	0.000000	0.167000	0.000000	0.207000	0.626000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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					
Office 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
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					
Office 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
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			
Office Park	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Office Park	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	37.1341	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
Unmitigated	37.1341	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	37.1220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
Total	**37.1341**	**1.1900e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**0.2550**	**0.2550**	**6.7000e-004**	**0.0000**	**0.2716**

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	37.1220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0121	1.1900e-003	0.1309	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	0.2550	0.2550	6.7000e-004	0.0000	0.2716
Total	**37.1341**	**1.1900e-003**	**0.1309**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**0.2550**	**0.2550**	**6.7000e-004**	**0.0000**	**0.2716**

7.0 Water Detail

7.1 Mitigation Measures Water

	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			
Office Park	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			
Office Park	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			
Office Park	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	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 5.7:

RCEM VILLAGE WEST DRIVE EXTENSION (UNMITIGATED) EMISSIONS MODEL OUTPUTS

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> Village West Drive Extension

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.52	9.79	2.38	4.03	0.13	3.90	0.92	0.11	0.81	0.02	1,674.62	0.42	0.04	1,697.81
Grading/Excavation	2.61	50.73	6.51	4.28	0.38	3.90	1.12	0.31	0.81	0.09	8,361.44	2.47	0.11	8,456.03
Drainage/Utilities/Sub-Grade	2.07	40.68	5.73	4.24	0.34	3.90	1.09	0.27	0.81	0.07	6,885.82	1.58	0.09	6,952.90
Paving	0.87	19.76	3.06	0.19	0.19	0.00	0.15	0.15	0.00	0.03	2,839.65	0.74	0.06	2,875.02
Maximum (pounds/day)	2.61	50.73	6.51	4.28	0.38	3.90	1.12	0.31	0.81	0.09	8,361.44	2.47	0.11	8,456.03
Total (tons/construction project)	0.06	1.26	0.17	0.12	0.01	0.11	0.03	0.01	0.02	0.00	207.92	0.06	0.00	210.17

Notes:

Project Start Year ->	2021
Project Length (months) ->	3
Total Project Area (acres) ->	5
Maximum Area Disturbed/Day (acres) ->	1
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	200	40
Grading/Excavation	0	0	0	0	720	40
Drainage/Utilities/Sub-Grade	0	0	0	0	600	40
Paving	0	0	0	0	480	40

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Village West Drive Extension

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.03	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	5.53	0.00	0.00	5.08
Grading/Excavation	0.03	0.64	0.08	0.05	0.00	0.05	0.01	0.00	0.01	0.00	105.77	0.03	0.00	97.04
Drainage/Utilities/Sub-Grade	0.02	0.49	0.07	0.05	0.00	0.05	0.01	0.00	0.01	0.00	82.56	0.02	0.00	75.63
Paving	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.06	0.00	0.00	12.91
Maximum (tons/phase)	0.03	0.64	0.08	0.05	0.00	0.05	0.01	0.00	0.01	0.00	105.77	0.03	0.00	97.04
Total (tons/construction project)	0.06	1.26	0.17	0.12	0.01	0.11	0.03	0.01	0.02	0.00	207.92	0.06	0.00	190.66

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

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APPENDIX 5.8:

EMFAC2017 MODEL OUTPUTS

EMFAC2017 Derived CalEEMod Annual Emission Rates: Year 2024[1,2]

Season	Pollutant	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
Annual	CH4_IDLEX	0	0	0	0	0.0045137	0.002917314	0.003236496	0.027761924	0.0085079	0	0	0.0796776	0
Annual	CH4_RUNEX	0.0017226	0.0052645	0.0030678	0.0038662	0.0039529	0.003033026	0.00118926	0.018365964	0.0042534	3.358237	0.3169795	0.0059239	0.0031778
Annual	CH4_STREX	0.0410177	0.064633	0.0574646	0.0705297	0.0126453	0.007414486	0.008201916	1.38739E-07	0.0222849	0.0187381	0.2384809	0.0072342	0
Annual	CO_IDLEX	0	0	0	0	0.1693429	0.131182851	0.354495104	8.37706259	0.5049924	0	0	3.1669445	0
Annual	CO_RUNEX	0.5427955	1.1505309	0.7805136	0.8763203	0.5323702	0.40621711	0.155840196	0.215105194	0.5182256	26.106513	18.660964	0.4816643	0.3168517
Annual	CO_STREX	1.9335148	2.1567983	2.4560064	2.7888008	0.8732048	0.502862876	0.920124954	0.002449659	2.3733803	1.4592214	8.6037	0.9361671	0
Annual	CO2_NBIO_IDLEX	0	0	0	0	9.2199314	14.53322953	67.57155339	1353.523613	68.866629	0	0	360.61893	0
Annual	CO2_NBIO_RUNEX	242.29088	290.47928	303.53074	380.99042	614.06916	613.6522278	926.2575477	1236.094129	1309.0198	1592.0562	208.36757	1081.7384	921.42562
Annual	CO2_NBIO_STREX	49.914065	60.858	63.901915	79.793246	10.019143	6.886902392	8.284132815	0.019551475	19.827834	17.323241	59.779523	6.1295605	0
Annual	NOX_IDLEX	0	0	0	0	0.0771779	0.111576394	0.384492446	6.794306175	0.2523231	0	0	3.265851	0
Annual	NOX_RUNEX	0.0280584	0.0932413	0.0600677	0.077736	1.1764611	1.306164623	0.899851034	1.927045842	0.8159003	0.3116037	1.1180092	4.24959	4.0412613
Annual	NOX_STREX[3]	0.1558695	0.2366255	0.2329845	0.2971464	0.2746284	0.169605142	1.74228446	2.396976048	0.7465702	0.1637146	0.2614603	0.8654084	0
Annual	PM10_IDLEX	0	0	0	0	0.0009964	0.001466571	0.000368095	0.002698613	8.36E-05	0	0	0.0031779	0
Annual	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061012308	0.13034	0.0878825	0.01176	0.7448002	0.13034
Annual	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100333	0.010865597	0.012000003	0.035572726	0.012	0.0219127	0.004	0.0105956	0.016
Annual	PM10_RUNEX	0.001252	0.0017884	0.0013175	0.0013694	0.0092855	0.012626677	0.00930804	0.026921759	0.0081829	0.0025925	0.0018968	0.0242894	0.1277456
Annual	PM10_STREX	0.0016815	0.0023506	0.001733	0.0017661	0.0002067	0.000102652	9.38697E-05	2.42604E-07	0.0002	0.0001958	0.0027137	4.634E-05	0
Annual	PM25_IDLEX	0	0	0	0	0.0009533	0.001403128	0.000352171	0.002581872	7.998E-05	0	0	0.0030404	0
Annual	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026148132	0.05586	0.0376639	0.00504	0.3192001	0.05586
Annual	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025083	0.002716399	0.003000001	0.008893182	0.003	0.0054782	0.001	0.0026489	0.004
Annual	PM25_RUNEX	0.001153	0.0016456	0.0012126	0.001263	0.008865	0.012070906	0.008901755	0.025757128	0.0078146	0.0024629	0.0017717	0.0232277	0.1222194
Annual	PM25_STREX	0.0015461	0.0021613	0.0015934	0.0016239	0.0001901	9.43848E-05	8.63097E-05	2.23065E-07	0.0001839	0.00018	0.0025475	4.261E-05	0
Annual	ROG_DIURN	0.0565823	0.1721548	0.0976344	0.1211675	0.0027036	0.001454858	0.00061262	1.24428E-06	0.0026047	0.0015817	1.6754342	0.0015972	0
Annual	ROG_HTSK	0.0858944	0.2112894	0.1195925	0.1515691	0.0695699	0.037320952	0.018470157	4.4559E-05	0.0238732	0.0098465	0.831423	0.0106972	0
Annual	ROG_IDLEX	0	0	0	0	0.0193258	0.015188158	0.016628928	0.56674344	0.0460159	0	0	0.368822	0
Annual	ROG_RESTL	0.0443014	0.1198654	0.0803339	0.1048102	0.0013669	0.000762501	0.000318182	7.58088E-07	0.0011299	0.0006938	0.9036902	0.0007744	0
Annual	ROG_RUNEX	0.0062525	0.0226569	0.0120751	0.0156979	0.0481228	0.050493063	0.010835166	0.019389574	0.0240228	0.0533654	2.1259561	0.0854255	0.0684165
Annual	ROG_RUNLS	0.1916085	0.6831387	0.3998395	0.4631673	0.4360383	0.205931842	0.090078575	0.000201725	0.2655878	0.0499264	1.7078431	0.0656155	0
Annual	ROG_STREX	0.1737831	0.3159114	0.2569496	0.3364341	0.0623254	0.036070478	0.042685585	7.12189E-07	0.1148609	0.0727267	1.801462	0.0417857	0
Annual	SO2_IDLEX	0	0	0	0	8.907E-05	0.000138726	0.00064102	0.012746566	0.000657	0	0	0.0034454	0
Annual	SO2_RUNEX	0.0023968	0.0028745	0.0030029	0.0037664	0.0059717	0.005911522	0.008824023	0.011562078	0.0127137	0.0046646	0.002062	0.0103573	0.0087108
Annual	SO2_STREX	0.0004939	0.0006022	0.0006324	0.0007896	9.915E-05	6.81515E-05	8.19782E-05	1.93478E-07	0.0001962	0.0001714	0.0005916	6.066E-05	0
Annual	TOG_DIURN	0.0565823	0.1721548	0.0976344	0.1211675	0.0027036	0.001454858	0.00061262	1.24428E-06	0.0026047	0.0015817	1.6754342	0.0015972	0
Annual	TOG_HTSK	0.0858944	0.2112894	0.1195925	0.1515691	0.0695699	0.037320952	0.018470157	4.4559E-05	0.0238732	0.0098465	0.831423	0.0106972	0
Annual	TOG_IDLEX	0	0	0	0	0.0269096	0.020275697	0.022523857	0.646640794	0.0616098	0	0	0.5317377	0
Annual	TOG_RESTL	0.0443014	0.1198654	0.0803339	0.1048102	0.0013669	0.000762501	0.000318182	7.58088E-07	0.0011299	0.0006938	0.9036902	0.0007744	0
Annual	TOG_RUNEX	0.0090911	0.0330436	0.0175883	0.0228194	0.0580254	0.058629757	0.013644044	0.039655951	0.0333582	3.4333122	2.6368247	0.1011988	0.0778877
Annual	TOG_RUNLS	0.1916085	0.6831387	0.3998395	0.4631673	0.4360383	0.205931842	0.090078575	0.000201725	0.2655878	0.0499264	1.7078431	0.0656155	0
Annual	TOG_STREX	0.1902706	0.345883	0.2813274	0.3683521	0.0682384	0.039492634	0.046735343	7.79757E-07	0.1257582	0.0796266	1.9608452	0.0457501	0
Summer	CH4_IDLEX	0	0	0	0	0.0045252	0.002924204	0.003080565	0.029390271	0.0085793	0	0	0.0797847	0
Summer	CH4_RUNEX	0.001963	0.0059512	0.0034888	0.004403	0.0040102	0.00305233	0.001206723	0.018366196	0.0043453	3.3582694	0.3155991	0.0059919	0.0031778
Summer	CH4_STREX	0.0361526	0.0567035	0.0506692	0.062087	0.0122025	0.007165635	0.007935577	1.33057E-07	0.0213457	0.0170456	0.2142319	0.006065	0
Summer	CO_IDLEX	0	0	0	0	0.1693429	0.131182851	0.306308959	8.266443454	0.5013107	0	0	3.1318512	0
Summer	CO_RUNEX	0.665653	1.3980209	0.9565174	1.0717839	0.5390807	0.408258427	0.157788744	0.215195926	0.5285588	26.10824	19.316964	0.4889636	0.3168517
Summer	CO_STREX	1.7071417	1.9123351	2.1757395	2.4572315	0.832713	0.480569923	0.877805542	0.002322144	2.2188747	1.2409456	8.0064628	0.677644	0
Summer	CO2_NBIO_IDLEX	0	0	0	0	9.2199314	14.53322953	67.48306992	1336.262008	68.127709	0	0	369.08877	0
Summer	CO2_NBIO_RUNEX	263.37309	312.91561	324.76554	403.42248	614.08101	613.6558011	926.260962	1236.094278	1309.038	1592.0593	209.34753	1081.7514	921.42562
Summer	CO2_NBIO_STREX	49.481509	60.334763	63.349628	79.124708	9.9470215	6.847162293	8.211846267	0.019349262	19.56555	16.954872	58.194422	5.696893	0
Summer	NOX_IDLEX	0	0	0	0	0.0771779	0.111576394	0.37591279	6.46481486	0.2397954	0	0	3.3380317	0
Summer	NOX_RUNEX	0.0261703	0.0868253	0.0563353	0.0727525	1.1081072	1.233266696	0.847137111	1.819066449	0.7596655	0.3054127	0.9720502	3.9965408	3.8135101
Summer	NOX_STREX[3]	0.1498494	0.2279437	0.2249641	0.2861201	0.2650988	0.164032968	1.739564524	2.396973786	0.7376565	0.155685	0.2476469	0.8604145	0
Summer	PM10_IDLEX	0	0	0	0	0.0009964	0.001466571	0.000313312	0.002384897	7.429E-05	0	0	0.0026866	0
Summer	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.061012308	0.13034	0.0878825	0.01176	0.7448002	0.13034
Summer	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100333	0.010865597	0.012000003	0.035572726	0.012	0.0219127	0.004	0.0105956	0.016
Summer	PM10_RUNEX	0.001252	0.0017884	0.0013175	0.0013694	0.0092855	0.012626677	0.00930804	0.026921759	0.0081829	0.0025925	0.0018968	0.0242894	0.1277456
Summer	PM10_STREX	0.0016815	0.0023506	0.001733	0.0017661	0.0002067	0.000102652	9.38697E-05	2.42604E-07	0.0002	0.0001958	0.0027137	4.634E-05	0
Summer	PM25_IDLEX	0	0	0	0	0.0009533	0.001403128	0.000299759	0.002281727	7.107E-05	0	0	0.0025704	0
Summer	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026148132	0.05586	0.0376639	0.00504	0.3192001	0.05586
Summer	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025083	0.002716399	0.003000001	0.008893182	0.003	0.0054782	0.001	0.0026489	0.004
Summer	PM25_RUNEX	0.001153	0.0016456	0.0012126	0.001263	0.008865	0.012070906	0.008901755	0.025757128	0.0078146	0.0024629	0.0017717	0.0232277	0.1222194
Summer	PM25_STREX	0.0015461	0.0021613	0.0015934	0.0016239	0.0001901	9.43848E-05	8.63097E-05	2.23065E-07	0.0001839	0.00018	0.0025475	4.261E-05	0
Summer	ROG_DIURN	0.1093605	0.3338291	0.1888913	0.2330572	0.0050343	0.002738933	0.001169385	2.34158E-06	0.0047438	0.002821	3.3141698	0.0028724	0
Summer	ROG_HTSK	0.0992807	0.2572265	0.140109	0.1737803	0.0809929	0.043870762	0.021937599	4.93405E-05	0.0261742	0.0118083	1.2364729	0.0112184	0
Summer	ROG_IDLEX	0	0	0	0	0.0193258	0.015188158	0.016179998	0.600377458	0.047052	0	0	0.3686725	0
Summer	ROG_RESTL	0.0826139	0.2267671	0.1474298	0.1902431	0.0025815	0.0014307	0.000609792	1.54799E-06	0.0021356	0.0014238	2.0486397	0.0014225	0
Summer	ROG_RUNEX	0.0070569	0.0255609	0.0136569	0.01777	0.0484047	0.050571363	0.010910699	0.01939083	0.0244508	0.0534561	2.1087761	0.0857542	0.0684165
Summer	ROG_RUNLS	0.1910899	0.6854064	0.4007986	0.4640413	0.4404008	0.20890858	0.09194561	0.000204097	0.2668721	0.0482776	1.7065844	0.0606735	0
Summer	ROG_STREX	0.1518147	0.2754698	0.2247611	0.2938382	0.0599603	0.034758398	0.041134282	6.84851E-07	0.1096829	0.0660575	1.6094359	0.0349667	0
Summer	SO2_IDLEX	0	0	0	0	8.907E-05	0.000138726	0.000640294	0.012583769	0.0006501	0	0	0.0035254	0
Summer	SO2_RUNEX	0.0026054	0.0030965	0.003213	0.0039884	0.0059718	0.005911558	0.008824057	0.011562079	0.0127139	0.0046646	0.0020717	0.0103574	0.0087108
Summer	SO2_STREX	0.0004897	0.0005971	0.0006269	0.000783	9.843E-05	6.77582E-05	8.12629E-05	1.91477E-07	0.0001936	0.0001678	0.0005759	5.638E-05	0
Summer	TOG_DIURN	0.1093605	0.3338291	0.1888913	0.2330572	0.0050343	0.002738933	0.001169385	2.34158E-06	0.0047438	0.002821	3.3141698	0.0028724	0
Summer	TOG_HTSK	0.0992807	0.2572265	0.140109	0.1737803	0.0809929	0.043870762	0.021937599	4.93405E-05	0.0261742	0.0118083	1.2364729	0.0112184	0
Summer	TOG_IDLEX	0	0	0	0	0.0269096	0.020275697	0.021797213	0.684996953	0.0627894	0	0	0.5315675	0
Summer	TOG_RESTL	0.0826139	0.2267671	0.1474298	0.1902431	0.0025815	0.0014307	0.000609792	1.54799E-06	0.0021356	0.0014238	2.0486397	0.0014225	0
Summer	TOG_RUNEX	0.0102649	0.0372801	0.0198962	0.0258402	0.0584367	0.058744012	0.013754261	0.039657783	0.0339828	3.4334445	2.6167162	0.1016785	0.0778877
Summer	TOG_RUNLS	0.1910899	0.6854064	0.4007986	0.4640413	0.4404008	0.20890858	0.09194561	0.000204097	0.2668721	0.0482776	1.7065844	0.0606735	0
Summer	TOG_STREX	0.166218	0.3016045	0.246085	0.321715	0.065649	0.038056071	0.045036861	7.49825E-07	0.1200889	0.0723246	1.7518745	0.0382841	0

Winter	CH4_IDLEX	0	0	0	0	0.004513	0.002915931	0.003462425	0.024164244	0.008438	0	0	0.0796603	0
Winter	CH4_RUNEX	0.0016623	0.0050607	0.0029428	0.0037109	0.0039462	0.003027635	0.001175787	0.000878223	0.0042249	3.3582399	0.3163342	0.0059159	0.0031778
Winter	CH4_STREX	0.0419448	0.0663678	0.0590427	0.0723335	0.0126693	0.007467745	0.008275708	1.394E-07	0.0224512	0.0186289	0.2394617	0.0074962	0
Winter	CO_IDLEX	0	0	0	0	0.1693429	0.131182851	0.421870395	8.503403683	0.5100765	0	0	3.2154067	0
Winter	CO_RUNEX	0.5090642	1.0753837	0.727161	0.8178139	0.5316306	0.40563981	0.154373446	0.159419175	0.5153652	26.106665	18.229279	0.4810783	0.3168517
Winter	CO_STREX	1.9697063	2.2086959	2.5178181	2.8531922	0.8755954	0.50717957	0.933180032	0.00244584	2.3986464	1.4465806	8.5633475	0.9835013	0
Winter	CO2_NBIO_IDLEX	0	0	0	0	9.2199314	14.53322953	67.68906227	1372.995451	69.887043	0	0	348.92248	0
Winter	CO2_NBIO_RUNEX	236.51441	283.63797	297.04976	374.19995	614.06784	613.6512131	926.254971	1223.806999	1309.0147	1592.0565	207.66691	1081.7374	921.42562
Winter	CO2_NBIO_STREX	49.985893	60.968705	64.024617	79.92515	10.023296	6.894684115	8.306448746	0.019545431	19.870529	17.301705	59.734497	6.2094606	0
Winter	NOX_IDLEX	0	0	0	0	0.0771779	0.111576394	0.396339871	7.224111269	0.2696231	0	0	3.166173	0
Winter	NOX_RUNEX	0.0270022	0.0904129	0.0581631	0.075159	1.162877	1.293050691	0.892402839	1.908780763	0.8114263	0.3100188	1.1128139	4.2163934	4.0004016
Winter	NOX_STREX[3]	0.1560637	0.2373655	0.2337152	0.297802	0.2736947	0.17008682	1.742879407	2.396976236	0.7463542	0.1623026	0.2622134	0.8663707	0
Winter	PM10_IDLEX	0	0	0	0	0.0009964	0.001466571	0.000443747	0.003095478	9.647E-05	0	0	0.0038564	0
Winter	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.089180026	0.130340037	0.060769368	0.13034	0.0878825	0.01176	0.7448002	0.13034
Winter	PM10_PMTW	0.008	0.008	0.008	0.008	0.0100333	0.010865597	0.012000003	0.03543107	0.012	0.0219127	0.004	0.0105956	0.016
Winter	PM10_RUNEX	0.001252	0.0017884	0.0013175	0.0013694	0.0092855	0.012626677	0.00930804	0.026903865	0.0081829	0.0025925	0.0018968	0.0242894	0.1277456
Winter	PM10_STREX	0.0016815	0.0023506	0.001733	0.0017661	0.0002067	0.000102652	9.38697E-05	2.42604E-07	0.0002	0.0001958	0.0027137	4.634E-05	0
Winter	PM25_IDLEX	0	0	0	0	0.0009533	0.001403128	0.00042455	0.002961569	9.229E-05	0	0	0.0036896	0
Winter	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.038220011	0.055860016	0.026044015	0.05586	0.0376639	0.00504	0.3192001	0.05586
Winter	PM25_PMTW	0.002	0.002	0.002	0.002	0.0025083	0.002716399	0.003000001	0.008857768	0.003	0.0054782	0.001	0.0026489	0.004
Winter	PM25_RUNEX	0.001153	0.0016456	0.0012126	0.001263	0.008865	0.012070906	0.008901755	0.025740009	0.0078146	0.0024629	0.0017717	0.0232277	0.1222194
Winter	PM25_STREX	0.0015461	0.0021613	0.0015934	0.0016239	0.0001901	9.43848E-05	8.63097E-05	2.23065E-07	0.0001839	0.00018	0.0025475	4.261E-05	0
Winter	ROG_DIURN	0.0455026	0.1426171	0.0757085	0.0932861	0.0023637	0.001114248	0.000450479	1.21759E-06	0.0023236	0.0016704	1.5912979	0.0013653	0
Winter	ROG_HTSK	0.0909572	0.230745	0.1267981	0.1592731	0.0780816	0.039949053	0.019081394	4.91624E-05	0.025079	0.0112893	1.0181275	0.0108796	0
Winter	ROG_IDLEX	0	0	0	0	0.0193258	0.015188158	0.017261678	0.520249546	0.0445851	0	0	0.3690286	0
Winter	ROG_RESTL	0.0376259	0.1006038	0.0675409	0.0895971	0.0012422	0.000635765	0.000251823	7.85828E-07	0.0010665	0.0007334	0.7268702	0.0007432	0
Winter	ROG_RUNEX	0.0060404	0.0217746	0.0115905	0.015078	0.0480888	0.050469958	0.010776773	0.018691372	0.0238938	0.0533741	2.1214998	0.0853964	0.0684165
Winter	ROG_RUNLS	0.2159081	0.7898438	0.4588606	0.528474	0.4672933	0.221105723	0.09719194	0.000214869	0.2820703	0.0594021	1.9473563	0.0794788	0
Winter	ROG_STREX	0.1780916	0.3243854	0.2643164	0.3453239	0.062434	0.036350359	0.043169007	7.15217E-07	0.1156492	0.0722799	1.8071255	0.0432371	0
Winter	SO2_IDLEX	0	0	0	0	8.907E-05	0.000138726	0.000641976	0.01297138	0.0006667	0	0	0.0033349	0
Winter	SO2_RUNEX	0.0023397	0.0028068	0.0029387	0.0036992	0.0059717	0.005911512	0.008823998	0.011562077	0.0127137	0.0046646	0.002055	0.0103573	0.0087108
Winter	SO2_STREX	0.0004947	0.0006033	0.0006336	0.0007909	9.919E-05	6.82285E-05	8.2199E-05	1.93418E-07	0.0001966	0.0001712	0.0005911	6.145E-05	0
Winter	TOG_DIURN	0.0455026	0.1426171	0.0757085	0.0932861	0.0023637	0.001114248	0.000450479	1.21759E-06	0.0023236	0.0016704	1.5912979	0.0013653	0
Winter	TOG_HTSK	0.0909572	0.230745	0.1267981	0.1592731	0.0780816	0.039949053	0.019081394	4.91624E-05	0.025079	0.0112893	1.0181275	0.0108796	0
Winter	TOG_IDLEX	0	0	0	0	0.0269096	0.020275697	0.023545997	0.592264506	0.059981	0	0	0.5319729	0
Winter	TOG_RESTL	0.0376259	0.1006038	0.0675409	0.0895971	0.0012422	0.000635765	0.000251823	7.85828E-07	0.0010665	0.0007334	0.7268702	0.0007432	0
Winter	TOG_RUNEX	0.0087816	0.0317565	0.0168814	0.0219159	0.0579758	0.058596042	0.013558837	0.021297569	0.03317	3.4333249	2.6313002	0.1011564	0.0778877
Winter	TOG_RUNLS	0.2159081	0.7898438	0.4588606	0.528474	0.4672933	0.221105723	0.09719194	0.000214869	0.2820703	0.0594021	1.9473563	0.0794788	0
Winter	TOG_STREX	0.1949879	0.3551609	0.289393	0.3780853	0.0683573	0.039799068	0.047264629	7.83072E-07	0.1266213	0.0791374	1.9670306	0.0473392	0

1 Source: California Air Resources Board. EMFAC2017 Web Database. https://www.arb.ca.gov/emfac/2017/; California Air Pollution Control Officers Association (CAPCOA). 2017, November. California Emissions Estimator Model User's Guide, Version 2016.3.2, Appendix A.

2 Unless otherwise noted, per CalEEMod methodology, the calculated CalEEMod emission rates are derived from the emission rates obtained using the EMFAC2017 Web Database for the Riverside County region .

3 Because EMFAC2017 provides vehicle trips data for MHDT and HHDT diesel trucks, the formula provided in Appendix A of the CalEEMod User's Guide in calculating the NO_x STREX emission rates are utilized.

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APPENDIX 5.9:

ROOFTOP SOLAR PV PANELS GHG REDUCTIONS CALCULATIONS

K4 and Cactus		
Parameters		Units
Total Project Rooftop Area	4,598,566	SF
System Size	12.0	MW
System Generation	20,201,196	kWh/yr
System Generation	20,201	MWh/yr
Electricity Intensity Factor	482.54	lb CO_2e/MWh
Annual GHG Emission Reduction	4,422	MTCO_2e/yr

Calculations

Converting kW to MW	12,000	kW	=	12	MW

Converting to MWh/y	20,201

GHG Estimated Emissions	Intensity Factor		482.5400	lbs/MWh
	lbs/MWh to		0.2189	MT/MWh
	4,422	MT/y		

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APPENDIX 5.10:

EV CHARGING STATIONS REDUCTIONS CALCULATIONS

EV Charging Station Reductions

Parameters		Units
Estimating GHG Emissions Reduction from Replacement of Gasoline Behicle with Electric Vehicle		
SCE Electricity Emission Factor[1]	0.24	MT CO_2e/MWh
Fuel Economy of Electric Vehicle[2]	0.25	kWh/mi
Gasoline/Diesel CO_2 Emission while Running[3]	265	g/mi
Annual Energy Delivery per Parking Spot[4]	7,056	kWh/charg stat/yr
Annual VMT Reduction per Parking Spot[5]	28,224	mi/charg stat/yr
Number of Parking Spots Provided Chargers[6]	65	charging stations
Annual VMT Reduction fromAll Stations (Based on Charge)	1,834,560	mi/year
Estimated Benefit from Installing On-Site Electric Vehicle Charging Stations		
GHG Emissions of Gasoline/Diesel Vehicle[7]	487	MT CO_2e/year
GHG Emissions of Electric Vehicle[8]	110	MT CO_2e/year
Annual GHG Emissions Reduction	376	MT CO_2e/year

[1] CO_2e weighted intensity factor for SCE accounts for CO_2 and CH_4 emissions rates under the 33% RPS for 2024.

[2] US Department of Energy, 2013. Benefits and Considerations of Electricity as a Vehicle Fuel. Available at: https://afdc.energy.gov/fuels/electricity_benefits.html

[3] Running exhaust emission rates for CO_2, CH_4, and N_2O were estimated using EMFAC2017 for light-duty gasoline and diesel-powered vehicles in Riverside County, aggregated for all models and speeds, averaged over all seasons in calendar year 2020. Emission rate was converted to CO_2e using the 4th Assessment Report Global Warming Potentials. Available at: https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory

[4] Annual Energy Delivery and VMT reduction based on an average monthly energy delivery of 588 kWh per charging station for conventional Level 2 chargers, as estimated by the California Energy Commission. Available at: https://ww2.energy.ca.gov/2018publications/CEC-500-2018-020/CEC-500-2018-020.pdf

[5] Annual VMT reduction calculated as the annual energy delivery divided by the fuel economy of an electric vehicle.

[6] Number of charging stations based on project commitment.

[7] GHG emissions calculated using annual VMT reduction at all stations and CO_2e emission rate.

[8] GHG emissions calculated using annual VMT reduction at all stations , fuel economy of electric vehicles, along with SCE electricity CO_2e emission factor.

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APPENDIX 5.11:

COUNTY OF RIVERSIDE CAP SCREENING TABLES

Feature	Description	Points
EE10.A.1 Insulation	Enhanced Insulation (rigid wall insulation R-13, roof/attic R-38)	11
EE10.A.2 Windows	Greatly Enhanced Window Insulation (0.28 or less U-factor, 0.22 or less SHGC)	7
EE10-A.3 Cool Roofs	Modest Cool Roof (CRRC Rated 0.15 aged solar reflectance, 0.75 thermal emittance)	7
EE10.A.4 Air Infiltration	Blower Door HERS Verified Envelope Leakage of equivalent	6
EE10.B.1 Heating/Cooling Distribution System	Model Duct Insulation (R-6)	5
EE10.B.2 Space Heating/Cooling Equipment	Improved Efficiency HVAC (EER 14/78% AFUE or 8 HSPF)	4
EE10B.4 Water Heaters	High Efficiency Water Heater (0.72 Energy Factor)	10
EE10.B.5 Daylighting	All rooms daylighted	1
EE10.B.6 Artificial Lighting	High Efficiency Lights (50% of in-unit fixtures are high efficiency)	7
CE1B.1 Photovoltaic	Solar Photovoltaic panels installed on commercial buildings or in collective arrangements within a commercial development such that the total power provided augments: • 40 percent of the power needs of the Project.	12
W2.E.2 Toilets	Water Efficient Toilets/Urinals (1.5 gpm)	6
	Waterless Urinals (note that commercial buildings having both waterless urinals and high efficiency toilets will have a combined point value of 6 points)	
W2.E.3 Faucets	Water Efficient faucets (1.28 gpm)	2
T4.B.1 Electric Vehicle Recharging	Install electric vehicle charging stations in garages/parking areas	160[1]
	TOTAL POINTS EARNED BY COMMERCIAL/INDUSTRIAL PROJECT	***238***

[1] The Project is anticipated to include 20 electric vehicle charging stations. Per the Screening Tables, each station is 8 points.

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